

Screw Removal

SCREW REMOVAL PLIERS SERIES

Remove all kinds of screws, fasteners, pins, etc. easily!

PZ-22

Finally, the world-standard model of the Screw Removal Pliers!

- Vertical serrations bite and grip a screw head without slippage.
- Also good for Truss head screw. *Truss: Lower-profile dome head
- Also ideal for situations when the correct size or type of screwdriver is not available.
- Serrated side teeth lined consecutively, inter-meshed with each other. Good for holding a thin plate securely.
- Owing to T-shaped forging handles, the handle sleeve will not twist or slip off during heavy duty use.









Non-standard

International Patents





SCREW EATER

PATENTED TECHNIQUE











Vertical Serrations (PAT.)

You can remove damaged screws in seconds. Just grip and turn!



Inter-meshed Teeth (PAT.)

Need to hold a thin material? Get a firm grip!





Ordinary plier jaws are lined with horizontal serrations. When you grasp and turn a screw head with ordinary pliers, the jaws slip and the screw remains stuck.

How does it work?



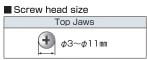
Specially-designed jaws generate gripping power



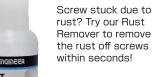
serrations maximize friction with no slippage.

	(mm)
11 175 25 25	1
6.75 19	23.9
4	
	4

Item No.	Material	Hardness	Wgt.(g)
PZ-22 Carbon Steel		HRC60±2	165







Turn to page 84 for further information.













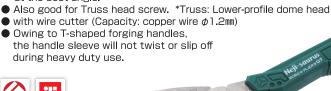
Remove all kinds of screws, fasteners, pins, etc. easily!



SCREW REMOVAL PLIERS GT

The best selling Screw Removal Pliers in the whole world!! Elaborately-designed serration fits the profile of screw head

at the best angle.

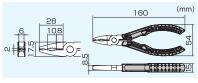


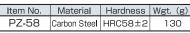




SCREW REMOVAL PLIERS RX







Screw head size Top Jaws ϕ 3 \sim ϕ 9.5mm





PZ-59

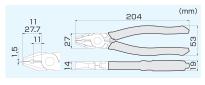
Removes screws with stripped or rusted heads or stubborn fasteners in seconds

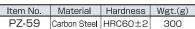
● Also good for Truss head screw. *Truss: Lower-profile dome head

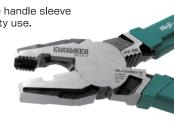
• Inter-meshed side teeth even hold a very thin plate securely, no slippage!

 Owing to T-shaped forging handles, the handle sleeve will not twist or slip off during heavy duty use.





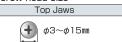








■ Screw head size





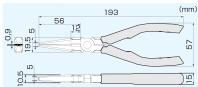




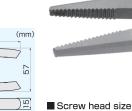
PZ-60

- Long nose ideal for a hard-to-reach small screws up to 5.5mm
- Vertical serrations bite a screw head without slippage.
- Also good for Truss head screw. *Truss: Lower-profile dome head Inter-meshed teeth to hold even a thin plate securely, so no slippage.
- Owing to T-shaped forging handles, the handle sleeve does not twist or slip off the handle.





Item No.	Material	Hardness	Wgt.(g)
PZ-60	Carbon Steel	HRC60±2	180













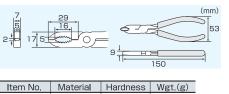
The basic Screw Removal Pliers: Powerful and simple!

• Serrated jaw inside bites screw head firm and unfastens it with no slip.

PZ-55







Item No.	Material	Hardness	Wgt.(g)
PZ-55	S58C	HRC56±2	125

OUI CW HOUGH SIZE
Top Jaws
φ3~φ8mm

PZ-56

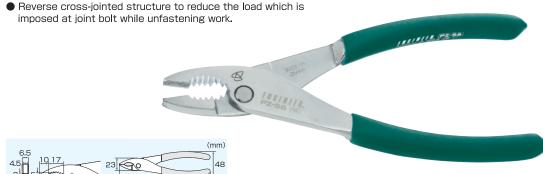
SCREW REMOVAL PLIERS XP

SCREW REMOVAL PLIERS

Feel the powerful and extensive work !!

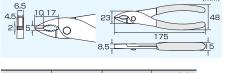
• Slip joint function makes it possible to select two points of opening jaws.

imposed at joint bolt while unfastening work.









Item No.	Material Hardnes		Wgt.(g)
PZ-56	PZ-56 Cr-V		187

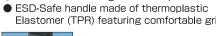


PZ-57

SCREW REMOVAL PLIERS M2

Slender jaws and pocket-sized body

• Ideal for unfastening frozen or special screws of tiny size

















Damaged screw

Torx screw

0.9	52
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Item No.	Material	Hardness	Wgt.(g)
PZ-57	S58C	HRC56±2	100

■ Screw head size Top Jaws

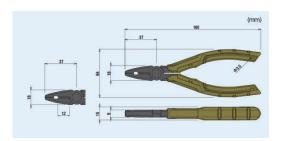
 ϕ 2 \sim ϕ 3.5mm

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





Item No. Size Material Hardness Cutting Capacity Wgt. Safety Hole Body:Carbon Steel HRC60±2 φ1.2mm PZ-32 160mm 125g φ3.5mm Handles:TPR (copper wire)

Inter-meshed, never let go.



Strap hole goes through the steel handle.



■ Screw head size

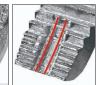
Top Jaws		
φ 3∼ φ 9.5mm		

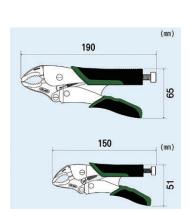
PZ-64·65

SCREW REMOVAL LOCKING PLIERS

- 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
- Rubber handles provide you with a comfortable grip.







Item No.	Max.Jaws	Cutting Capacity	O.A. Length	Hardness (Jaws)	Wgt.	Material
PZ-64	38mm	Steel wire ϕ 1.6mm	150mm	HRC57±3	205g	Body:Cr-Mo
PZ-65	48mm	Steel wire ϕ 2.3mm	190mm	HHC0/±3	400g	Handles:TPR







Screw head size				
Item No.	Top Jaws			
PZ-64	φ 3~ φ 9.5mm			

PZ-65

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





SCREW EMERGENCY TOOL KIT

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	⊕#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

Item No.	Description
PZ-58	Screw Removal Pliers GT
PZM-58	Pliers Mask for PZ-58
PH-55	Combination Scissors GT

Item No.	Case Size	Wgt
PGT-03	252×132×32mm	372g

DBZ-60G

The unique extracting tool, especially designed to remove damaged countersunk screws!

- Special screw driver for screw extraction
- No power supply or drilling required
- 2 bits for more possibilities
- High-torque handle grip
- Shock-absorbable rubber sleeve included

Contents:

- · Handle Grip for DBZ(Green)(DBZ-50G)
- · ⊕#2 Press & Twist type bit (DBZ-51)
- · ⊕#2 Strike & Turn type bit (DBZ-52)
- · Rubber Sleeve for DBZ-52





RAPID SCREW EXTRACTOR







Item No.	Material	Wgt.
DBZ-60G	Bit:Carbon Steel Sleeve: TPR Grip: ABS, Nylon	135g

DBZ-50B

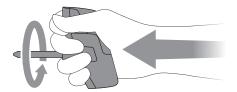






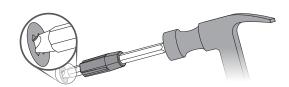
Item No.	Material	Width	Wgt.
DBZ-50B	Grip: ABS, Nylon	100mm	83g

How to



Press & Twist type (for slightly damaged screws)

- 1) Insert the bit into the handle grip.
- 2) Place the bit tip into the screw head, then scrape away burs in the recess by twisting it back and forth lightly. *Do not attempt to hit the bit with a hammer.
- 3) After you feel the bit tip catches the corner of recess, give a jerk counterclockwise while pressing firmly downward.

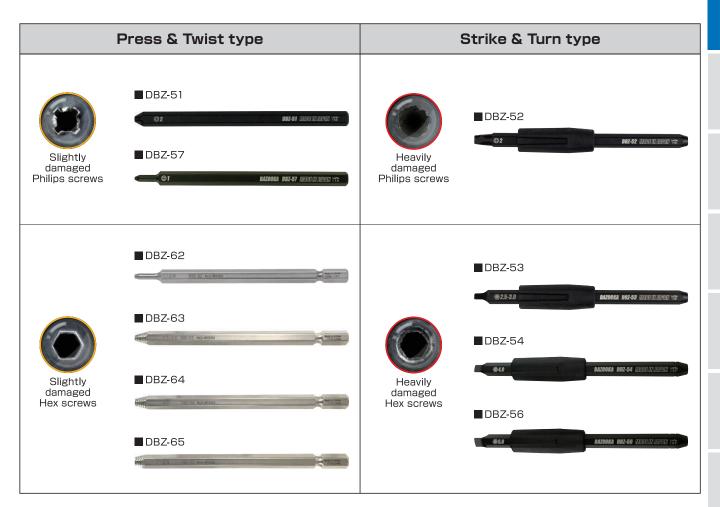


Strike & Turn type (for heavily damaged screws)

- 1) Clean out any steel chips left in the screw recess.
- 2) Fix the rubber sleeve to the Strike & Turn bit and position the tip in the recess.
- 3) Strike the end of the bit with a hammer to stick the tip into the recess.
- 4) Make sure the bit is self-standing upright, and then affix the grip onto the bit.
 - *Do not hit the grip with a hammer.
- 5) Give a jerk counterclockwise while pressing firmly downward

SCREW REMOVAL

YEARS REPLACEMENT AND OPTIONAL BITS FOR DBZ-60G



Item No.	Screw type/size	Bit type	Length	Wgt.
DBZ-51	⊕#2	Press & Twist type		27g
DBZ-52	U# L	Strike & Turn type		L/6
DBZ-53	Hex socket screw (●: 2.5-3.0mm)	Strike & Turn type		
DBZ-54	Hex socket screw (♠: 4.0mm)	Strike & Turn type		26g
DBZ-56	Hex socket screw (♠: 5.0mm)	Strike & Turn type		
DBZ-57	⊕#1	Press & Twist type	105mm	25g
DBZ-62	Hex socket screw (♠: 2.0mm)	Press & Twist type		206
DBZ-63	Hex socket screw (♠: 2.5-3.0mm)	Press & Twist type		
DBZ-64	Hex socket screw (●: 4.0mm)	Press & Twist type		27g
DBZ-65	Hex socket screw (♠: 5.0mm)	Press & Twist type		



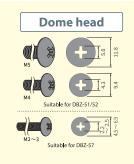


DBZ-62~65 can be used with your power driver













Scissors

PH-57·PH-57R·PH-57G·PH-57Y

- 2-in-1 anti-slip serrations and U-shaped blade
 3mm-thick durable blades, made of stainless steel



Micro-serrations



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

U-shaped blade



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

TPR cushioned handles



Comfort gripping

Finger pinch guard

YEARS COMBINATION SCISSORS DP



The overlapping guard prevents your fingers from being pinched PAT.

Cutting capacity (Reference only)



 $\ensuremath{\mathrm{\#}}\xspace$ 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.

210 (mm) 58 86 100 Engineer

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

Color variations



PH-56R·PH-56G·PH-56Y

SOURCE SOURCE MANAGEMENT OF S

- 2-in-1 anti-slip serrations and U-shaped blade
 2.5mm-thick blades, made of stainless steel



Nano-serrations



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

U-shaped blade



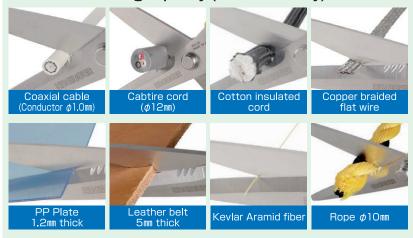
Ideal for power supply cord, coaxiale cable, rope, etc.

Finger pinch guard



The overlapping guard prevents your fingers from being pinched PAT

Cutting capacity (Reference only)



**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.



	175	(mm)
63	175 I	
ON	0	06

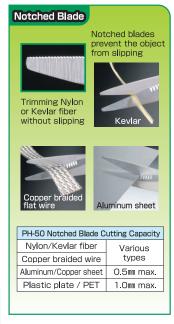
Item No.	Size	Hardness	Material	Wgt.
PH-56R			Blades: Stainless Steel	
PH-56G	175mm	HRC56+2	Handles: ABS	75g
PH-56Y			nandies: ABS	

PH-50

2-in-1 Unique cutting blade

- 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.







MANUAL COMBINATION SCISSORS

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



YEARS COMBINATION SCISSORS GT

4-in-1 Blade combination, Compact Body to Generate More Force!!

Finger

- Cut various materials cleanly
- Safely-designed and comfortable handles
- Blade cap with vent & drain holes
- Rust proof stainless steel body
- Applicable to professional users and hobbyist

83



You can grasp the outer rim of the handles safely

requires a strong grip.



Micro-serration

Flat Blade

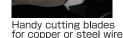


Smooth cutting not only of cloth but also



Convenient to open carton boxes with ease

Wire Cutter Safety Box Opener



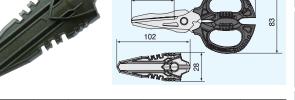


S-shaped Design

The unique form transmits gripping power efficiently to the shears.



Cutting Capacity (Reference)									
	Micro-serration								
Rope	Cabtire cord	Cotton insulated	Copper wire						
	3	3							
φ10mm	φ9mm	φ8mm	φ1.6mm						
Leather belt	CD·Card	Carpet	Wire						
		30							
4mm thick	1.2mm thick	5mm thick	φ1.2mm						



Item No.	Size	Hardness	Material	Wgt.
PH-55	160mm	HRC56±2	Handles:PBT Blades:Stainless Steel	120g

^{**}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.

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





Vinyl Insulated

SHEARS CABLE SHEARS

SELECTRONIC SNIPS





Cabtire Cable





Flat Cable

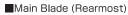


Coaxial Cable



■Foremost Blades

Wire cutter suitable for copper wires



Curved blades suitable for insulated cables, make a fine cut surface.

Flat cables, Coaxial cables, Power supply cords, LAN cables, etc. are also applicable.

Comparison of Cut Surface

Cable Shears



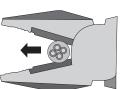
make a cut surface finely.



The curved blades can hold a cable securely and the shears mechanism enables you to

Conventional Pliers

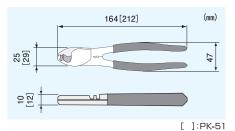




The pressure given from flat blades crushes a cable or it may slip sideways.

Item No.	Size	Hardness	С	Cutting Capacity				
item No.	Size	i laruness	Vinyl insulate	ed Cable	Flat Cable	Wgt.		
PK-50	164mm	HRC58±4	9mm outside 22 mm		22 mm 2 Nmm × 2 core			
PK-51	212mm	HRC58±4	11mm outside diameter	38 mm	2.0mm×3core	250g		





Nippers



NS & NZ SERIES

- Features

 Our micro nippers are ideal for precise PCB work.

 Made of special steel and specially heat treated for excellent cutting capacity and durability.

 Full-flush cutting edge recommended for cutting copper and soft lead wires.

 Soft touch grip insulation and spring ensure long comfortable work.



With opening angle adjuster or stopper

NS-03

MICRO NIPPERS

- Ideal for small PCB related work
- With opening angle adjuster
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ 1.4mm

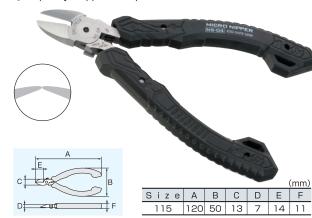


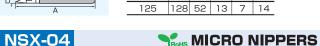


NS-04



- Ideal for small PCB related work
- With opening angle adjuster
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ 1.2mm





- Cost-saving simple structure
- With side stopper
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ 1.2mm
- Especially for production line owing to economical and ecology package in poly bag



(mm)

Size A B C D E



NS-06



- Undercut design featuring thin blade
- Ideal for precise PCB related work
- With opening angle adjuster
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ0.8mm



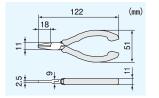


■Nippers cut	tting capacities (Refe	rence only)					(mm)
Item No.	Commodity	Size		er wire	Steel wire (Ø)	Others	Page
item No.	Commodity	Size	Solid (φ)	Stranded	Steel Wile (v)	Others	rage
NS-03	Micro Nippers	125	1.4	2			16
NS-04	Micro Nippers	115	1.2	2			16
NSX-04	Micro Nippers	115	1.2	2			16
NS-06	Micro Nippers	105	0.8				16
NZ-03	Chip Cutter	125	0.6				17
NZ-05	Chip Cutter	125	0.6			also applicable to plastic gate	17
NZ-12	Parallel Nippers	125	0.6				17
NZ-13	Parallel Nippers	125	0.6				17
NP-03	Plastic Nippers	125				Injection molding gate ø3mm	19
NP-04	Plastic Nippers	150				Injection molding gate ø3mm	19
NP-05	Plastic Nippers	115	0.8			Injection molding gate Ø3mm	19
NK-15	Diagonal Nippers	125	2.6	2	1.5		18
NK-16	Diagonal Nippers	150	3	2	1.9		18
NK-25	Diagonal Nippers	125	2.6	2	1.5	Stripping hole Ø1.2 & 1.6mm	18
NK-26	Diagonal Nippers	150	3	2	1.9	Stripping hole Ø1.2 & 1.6mm	18
NK-36	Diagonal Nippers	150	3.2		2	Vinyl isulated cable Ø1.6mm	18
NN-45	Slant Edge Nippers	125	2	2	1.2	Stripping hole Ø1.2 & 1.6mm	19
NN-46	Slant Edge Nippers	150	2.6	2	1.4	Stripping hole Ø1.2 & 1.6mm	19
NN-56	Slant Edge Nippers	150	2.6	2	1.4		19

NZ-03 **MANUAL CHIP CUTTER**

- Opening angle adjuster (Max. 5mm) with 1.5mm hex key wrench included
- Sharp & slender design of jaws for work on dense circuit board
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ0.6mm
- Applications: Removal of chip resistance, IC, etc. on SMD





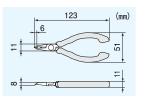


NZ-05

- **Note** CHIP CUTTER
- Opening angle adjuster (Max. 5mm) with 1.5mm hex key wrench included
- Sharp & slender design of jaws for work on dense circuit board
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 58±4
- lacktriangle Capacity: copper wire ϕ 0.6mm
- Applications: Leads of Dual In-line Package or Single In-line Package IC on SMD









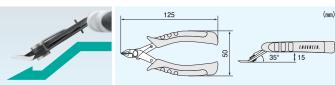
PARALLEL NIPPERS

NZ-12-13

Full flush & super-fine cutting edge

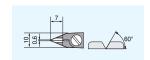
- Ideal to cut an IC lead of a narrow-pitch QFP or SOP with slender shears (0.3mm+0.3mm width at top)
- Ergonomic elastomer handle for comfort gripping
- Cutting capacity : Copper wire ϕ 0.6mm Light weight of 45g only



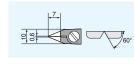


SHEARS & GRIP IN PARALLEL









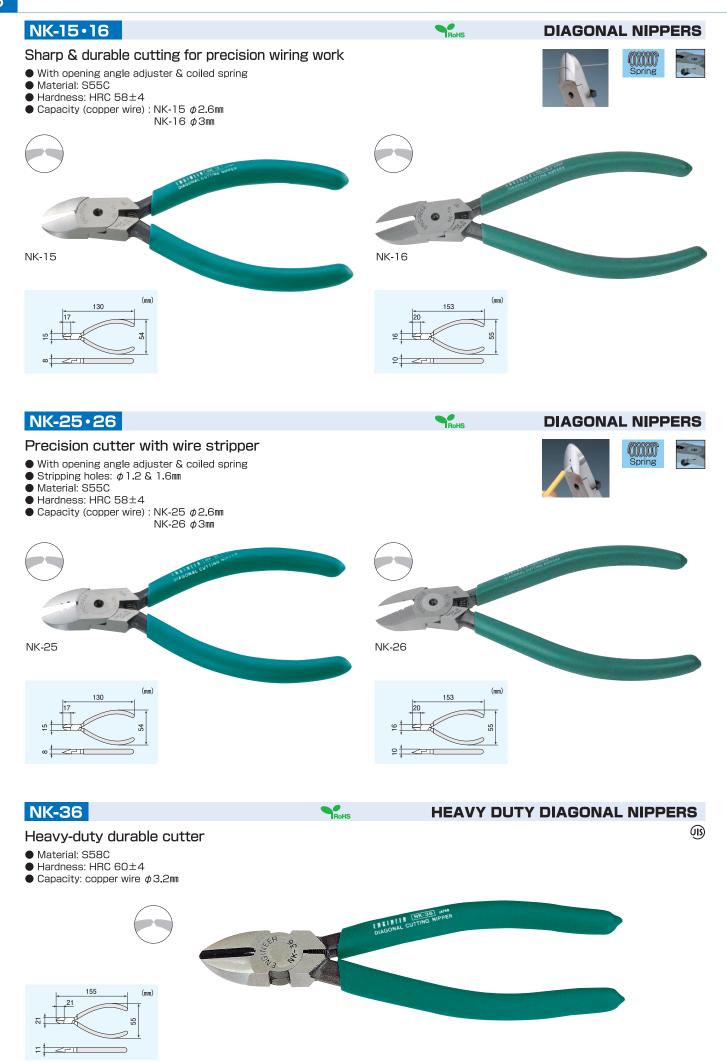


NZ-12: Normal Blade Enables you to make flush cut of a lead easily so as to prevent resist stripping or solder crack NZ-12 on the circuit board



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





NIPPERS

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



Sharp cutting & easy handling

SLANT EDGE NIPPERS

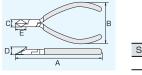
NN-56

• Material : S58C Hardness: HRC 58±4
Capacity: copper wire φ2.6mm



							(mm)
Item No.	Size	Α	В	С	D	Е	Capacity
NN-45	125	133	51	14	10	23	copper wire φ2mm
NN-46	150	159	51	16	11	26	copper wire ϕ 2.6mm





					(mm)
Size	Α	В	С	D	Е
150	159	51	16	11	26

PLASTIC NIPPERS

NP-03·04

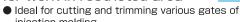


- Ideal for cutting plastic mold gates & burns
- With opening angle adjuster & coiled spring
- Material: S58C
- Hardness: HRC 58±4





Tapered and slender head for work in restricted area



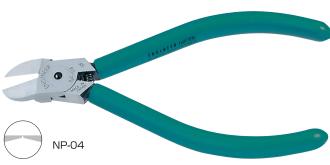
- injection molding
- Also capable of cutting thin copper wire (ϕ 0.8mm max.)
- ESD-Safe handles made of Elastomer (TPR)
- With side stopper & coiled spring
- Material: S58C

NP-05

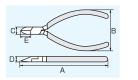
● Hardness: HRC 59±3

NP-05

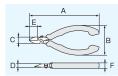








						(mm)
Item No.	Size	Α	В	С	D	Е
NP-03	125	130	54	14	8	17
NP-04	150	152	55	16	10	20



A	
	Item No.
F	ND OF

							(111111)
Item No.	Size	Α	В	С	D	Е	F
NP-05	115	123	52	11	7	12	11





Pliers



PLIERS

PS-01

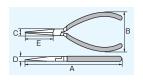
Ideal for precision work

- Jaws with inside serration
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ2mm









						(mm)
Item No.	Size	Α	В	С	D	Е
PS-01	125	132	51	14	8	37

MINIATURE NEEDLE NOSE PLIERS

MINIATURE LONG NOSE PLIERS

PS-03

Ideal for forming work

- Jaws without serration
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 46±4









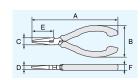


- Jaws without serration
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 46±4









							(mm)
Item No.	Size	Α	В	С	D	Е	F
PS-03	125	141	55	11	8	38	11
PS-04	125	132	50	11	8	29	11



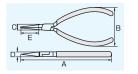


PL-05.06 None PLIERS

Thin and flat edge for efficient work

- Jaws without serration
- Long-life box joint structure to avoid loosening
- Material: Stainless steel





						(mm)
Item No.	SIZE	Α	В	С	D	Е
PL-05	125	143	50	11	7	40
PL-06	150	164	53	15	10	43

PR-26

(II)

(mm)

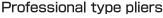
(II)

NOSE PLIERS

SIZE A B C D E 150 145 53 15 8 35

(II)

ROUND NOSE PLIERS





PM-06

● Material: SCM440H

Point section

() \$ ∅ 1.5

40000000

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



Ideal for looping & coiling of steel wires



					(mm
SIZE	Α	В	С	D	Е
150	160	52	17	10	50

PR-15 · 16



• Material: S58C

● Hardness: HRC 58±4



Item No.	SIZE	Α	В	С	D	Е	Capacity
PR-15	125	142	51	17	10	43	Copper wire \$\phi 2.0mm
PR-16	150	160	55	17	10	49	Copper wire \$\phi 2.6m

PR-36

NOSE PLIERS

Multipurpose pliers with gripping jaws, cutter & wire stripper

- Stripping Hole: φ 1.2mm
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ2.6mm



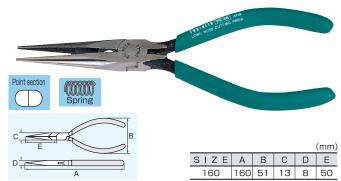
					(mm)
SIZE	Α	В	С	D	Е
150	160	51	17	10	50

PR-46

NEEDLE NOSE PLIERS

50mm-long slender nose ideal for work in deep area

- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ2.6mm



PD SERIES

Features • Durably constructed Electrician's Pliers

PD-06~08

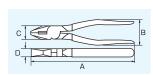




SIDE CUTTING PLIERS

Heavy duty professional-use pliers

- Material: S58C
- Hardness: HRC 60±4



(mm)

ĺ	Item No.	Size	Α	В	С	D	Capacity
	PD-06	150	165	50	22	12	steel wire \$\phi\$1.6
	PD-07	175	185	52	24	13	steel wire \$\phi\$1.8
	PD-08	200	210	53	27	14	steel wire \$2.0

PC & PW SERIES

Features

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



Slip joint for wide-open jaws

Material: S55C







- Groove-joint leverage for heavy duty work
- Serrated jaws with soft-touch grip
- Material: S55C

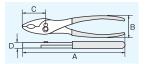


PW-08



(mm) Item No. Size Α В С D Max.Opening PW-05 | 125 | 127 5.5 34 25 15 PW-08 200 200 37 38 8 33 PW-10 250 250 38 50 11 45

(IS) PC-08



					(mm)
Item No.	Size	Α	В	С	D
PC-06	150	165	45	42	9
PC-08	200	203	48	46	11

PZ-01·02

Sens E-RING PLIERS

Ideal and smart pliers to remove and fasten E-ring!!

Place the corner of E-ring into the recess of pliers' jaw for removal, fastening and replacement work.

- Magnetized point for convenient holding
- Long-life box joint structure to avoid loose joint
- Material: Stainless steel



Ring Size

φ3~4

φ5~9





164 The Ring Size shown above is the diameter Ring Size of grooved shaft to which E-ring retains.

150

Box joint (mm) PZ-01



PZ-16~19

Item No.

PZ-01

PZ-02

SNAP RING PLIERS

- Slender design of jaws ideal for work at a confined area
- The spiked tips are angled outward (PZ-16&17) or inward (PZ-18&19) to hold a snap ring securely without slippage.
- Spring built into the joint screw for smooth and repeated work





				(11111)
Item No.	Applicable Ring Size	Tip Diameter	Ring Type	Wgt.
PZ-16	#10-25mm	φ1.3mm	External ring	90g
PZ-17	#19-60mm	φ1.8mm	Externalling	175g
PZ-18	#10-25mm	φ1.1mm	Internal ring	90g
PZ-19	#19-60mm	φ1.8mm	internating	175g

(mm)

Crimping and Stripping



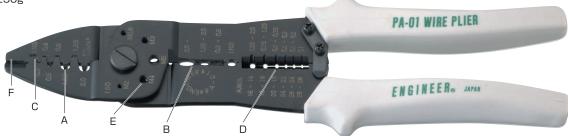
WIRE PLIERS SERIES

Features • General purpose & compact wire pliers used for crimping, stripping & cutting for precision wiring work.

PA-01

WIRE PLIERS

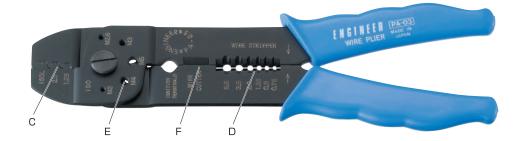
- Six-in-one multipurpose type.For bare, insulated terminals & splices (open barrels).
- O.A. length: 245mm.
- Weight: 250g



PA-03

WIRE PLIERS

- For splices (open barrel terminals) with wire stripper & bolt cutter.
- O.A. Length: 210mm.
- Weight: 205g





A. For crimping BARE terminals.



B. For crimping INSULATED terminals.



C. For crimping OPEN D. For stripping BARREL(SPLICES)



insulated WIRES.



E. For cutting SCREWS.



F. For cutting WIRES.

						(111111)
Itom No	A	В	С	D	E	F
Item No.	Bare terminals' crimping	Insulated terminals' crimping	Splices' crimping	Wires' stripping	Small screw's cutter(iso)	Wires' cutting
PA-01	0.5 ~2.0	0.3 ~2.0	0.3 ~1.25	0.1 ~2.0	M2, M2.6, M3, M4, M5	0
PA-03	_	_	1.25~2.0	0.75~5.5	M2, M2.6, M3, M4, M5	0

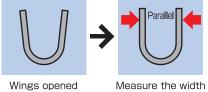
Conversion A.W.G. table

AWG	8	10	12	14	16	18	20	22	24	26	28	30
Sectional area mil	8.37	5.26	3.31	2.08	1.31	0.82	0.52	0.33	0.20	0.13	0.08	0.05
Wire diam mm	3.26	2.59	2.05	1.63	1.29	1.02	0.81	0.64	0.51	0.40	0.32	0.25

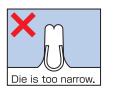
How to select the proper dies for crimping an open-barrel contact

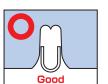
1. Measure the width of conductor barrel with a caliper while both barrel wings are in parallel.

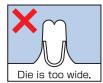




2. Select the die width which is close to the width of barrel wings measured.







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

CONNECTOR CRIMPING PLIERS

- 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
 With locking latch and coiled spring, Light weight for fatigue-free work

PA-09

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

Typical terminals applicable									
PH Series(JST)	ZH Series(JST)	Molex 170363(Molex)							
Traffich.	R-AF	1							
EH Series(JST)	NH Series(JST)	Molex 170365(Molex)							
17.00	35.5	13.5							

Specifications

Item No.	Die Width		Die Thickness	Wires applicable (Reference only)			
item No.	(mm)	(mm)	(mm)	ϕ mm	mm	AWG (conductor)	
	1.0	0.50	1.7	0.20~0.32	0.031~0.08	#32~#28	
PA-09	1.4	0.55		0.32~0.51	0.08~0.21	#28~#24	
PA-09	1.6	0.8	2.0	0.51~0.64	0.21~0.33	#24~#22	
	1.9	0.9	2.0	0.51~0.81	0.21~0.52	#24~#20	

PA-20

NAMES OF THE PROPERTY OF THE

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





VH Series(JST)	NH Series(JST)	PH Series(JST)
13	The state of the s	The same
EL Series(JST)	3191 Series(Molex)	MATE-N-LOK(Tyco)
A STATE OF THE PARTY OF THE PAR		The state of the s
Coocifications		

Specifications

Item No.	Die Width	Die Height	Die Thickness	Wires applicable (Reference only)				
item No.	(mm)	(mm)	(mm)	ϕ mm	mm	AWG (conductor)		
PA-20	1.6	0.7		0.32~0.64	0.08~0.33	#28~#22		
	1.9	0.8	2.5	0.51~0.81	0.21~0.52	#24~#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

NAMES OF THE PROPERTY OF THE

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



Typical terminals applicable



Specifications

Item No.		Die Width	Die Height	Die Thickness	Wires applicable (Reference 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		
	DA 21	1.9	1.0	1.8	0.41~0.64	0.13~0.33	#26~#22		
PA-21	2.2	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			

(mm)

PRECISE CRIMPING SERIES - Tool Frame and Die Set

PAD-11~13

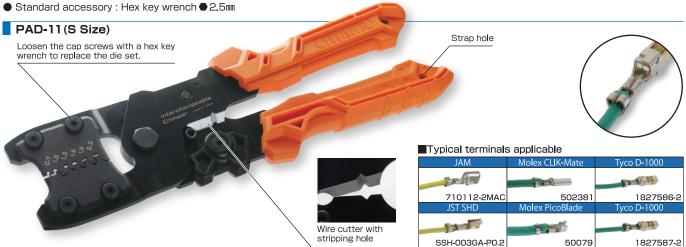
HANDY CRIMP TOOL

Ultra-precise crimper forming excellent crimping finish

- Interchangeable die set for open-barrel contacts.
 Easy replacement and perfect fitting to the frame
- Ergonomically-designed handles with strap hole
- Equipped with wire stripper and cutter, spring loaded
- Material:
 Frame & Die set Special alloy steel
 Handles Elastomer (TPR)



Easy fitting, No need to adjust positioning PAT.



PAD-12 (M Size)





PAD-13 (L Size)



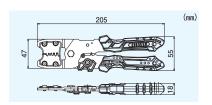


■Typical terminals applicable

JST NH	Molex New Mini Fit	Tyco D-3000
		4
SHF-001T-0.8BS	5556T	175217-2
JST VH	Molex New Mini Fit	Tyco D-3000
SVH-21T-P1.1	5558T	175288-2



_ Typical to minale applicable								
JST VL	Molex 3191	Tyco D-3000						
		3						
BVF-42T-P2.0	1189T	175218-2						
JST VL	Molex 3191	Tyco D-3000						
BVF-61T-P2.0	1190T	175289-2						





■Crimper size (mm											(mm)
			PAE)-11							
Item No.		PAD-12									
					PAD-13				3		
Die width	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7
Die thickness	1	Ω	1	5	2	Ω	2	5	3	Ω	3.5

PAD-115~13S

PAD-11S(S Size)

 Over 90 different terminals applicable





 Over 110 different terminals applicable



INTERCHANGEABLE DIE SET

PAD-13S(L Size)

 Over 100 different terminals applicable





Frame & Dies Combination

Tame & Dies Combination							
	Item No.	Frame		Die set			
	PAD-11	PAD-10	+	PAD-11S			
	PAD-12	PAD-10	+	PAD-12S			
	PAD-13	PAD-10	+	PAD-13S			

■Crimper size

		PAD-11S									
Item No.				PAD-12S							
							PAD-13S				
Die width	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2 <u>.</u> 8	3.1	3.4	3.7
Die thickness	1.	0	1,	.5	2	.0	2.5 3.0			.0	3.5



PAD-02 RoHS HANDY CRIMP TOOL COMPLETE SET

- Comes with 3 different interchangeable Die Sets
- Tool Frame & Parts Boxes in a stylish carrying case



■Set Content

Item No.	Description
PAD-11	Handy Crimp Tool
PAD-12S	Interchangeable Die Set (M Size)
PAD-13S	Interchangeable Die Set (L Size)
	2.5mm Hex. key wrench
	Connectable parts box (6 pcs.) Ext. size:20×29×16mm
	Carrying case (HDPE)
	()

		(mm)
Item No.	Case Size	Wgt.(g)
PAD-02	300×200×63mm	910g approx.

PA-11

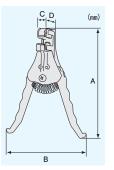


- Super-Light weight wire stripper
- Accurate wire stripping with single squeeze action.
- Fatigue-free owing to spring action
- Made of durable plastic



■With strip gauge Length of wire is adjustable using strip gauge.





Size applicable				
Hole diameter mm	0.5	1.2	1.6	2.0
Stranded wire(AWG)	26	18	16	14
Calid wire AVVC	0.4	10	1 /	10

(mm) Item No. Wgt.(g) Α PA-11 165 128 20 30 140

PA-30



NOTE STRIPPER

- 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
- •Sliding stopper to adjust length of stripping.



PA-91~93



TERMINAL SET

Popular crimping terminals and connectors in compact plastic case.



■PA-91 Set

TA-31 Set								
Tern	ninal	Sectional area (mm)	Screwdiam (mm)	Contents				
		0.5	3					
		1.25	3	10				
	ROH	1.25	4	10				
Bare		2	5					
Terminal		5.5	6	5				
		1.25	4	10				
	Y	2	5	10				
		5.5	6	5				



■PA-92 Set

PA-92 Set									
Tern	ninal	Sectional area (mm)	Screwdiam (mm)	Contents					
		1.25	3						
	RV 📺	1.25	4						
Insulated		2	5	10					
terminal		1.25	3	10					
	YV S	1.25	4						
		2	5						



■PA-93 Set

- 1 A 50 0Ct							
Tern	ninal	Sectional area (mm)	Screwdiam (mm)	Contents			
Insulated terminal	RV ⊙ ■	5.5	6				
	YV 🗀	5.5	6	4			
Splice terminal	вс 🛏	1.25	_	8			
Twist connector	TC €×	1.25~2 1.5 ~4	_ _	10			

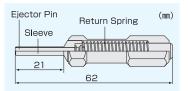
PAS-30~34

Some CONNECTOR EXTRACTOR (Spring Loaded Type)

PRODUCT VIDEO

- Perfect and simple work for extracting pin & socket contacts
- Newly designed construction with built-in return spring
- Owing to built-in spring, ejector pin retracts in the sleeve after work. It prevents the ejector pin from being damaged while carrying or not in use.





			(11111),
Item No.	Inner Diam of Sleeve	Outer Diam of Sleeve	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.







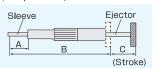
PIN EXTRACTOR







(Shape sizes)



				,	111111/
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			

■Reference for extracting typical connectors

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-nin connector in PC)	SS-32	SS-34

PH-01~04

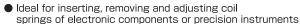


Serrated ratchet allows quick disconnect & reconnect for temporary connection.



SS-21·22

component



oil hose

 Suitable for removing connector leads, aligning leads of resistor or condenser and testing arrangements of wires

3mm diam.X215 O.A. length











TP-33·34



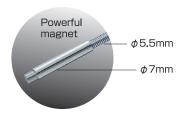
- 4 spring jaws pick up small and ball bearing type parts easily and firmly.
- Suitable for assembly work of precision instruments.
- Ideal for pick-up work even in hard to reach areas.

MAGNETIC PICK-UP TOOL TP-35 · 36 |

- Ideal for part retrieval in hard to reach areas
- Flexible shaft conforms to any shape
- Alnico magnet tip



			(11111)
	Item No.	Housing	O.A. Length
Ī	TP - 33	φ6.2	250
	TP-34	φ6.2	350



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

PA-05·06·07·14

• Giving a very round finish of wires after stripping by sharp and precise edge

Made of carbon steel alloy withstanding abrasions

Oil-resistant Elastomer (TPR) handle







WIRE STRIPPER

Environment-friendly Elastomer handle





"ENGINEER" original Joint-Screw prevents the joint from being loose and offer you easy maintenance.

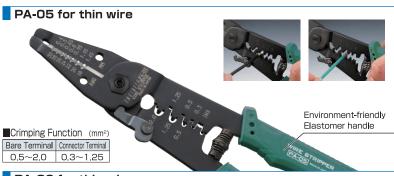
with coiled spring

Item No. Wgt. PA-14 | 134g

Applicable Sizes Table

Stripper's Hole Diam(mm)		0.25	0.3	0.4	0.5	0.65	8.0	0.95	
SOI AMG	Stranded	34	32	28~30	26	24	22~24	20~22	
Appli wi	conversion	Solid wire	32	30	28	26	24	22	20

() Reference



Wgt.
166g

Applicable Sizes Table

י, רף	.pp.iiodaalo olaso									
Stripper's Hole Diam(mm)			0.4	0.5	0.65	0.8	0.95	1.15	1.45	
Applicable wire	AWG	Stranded	28~30	26~28	24	22~24	20~22	20	(18)	
	conversion	Solid wire	28	26	24	22	20	18	16	

() Reference

(mm)



Wgt.
134g

Applicable Sizes Table

Stri	Stripper's Hole Diam(mm)			0.5	0.65	0.8	0.95	1.15	1.45
cable	aple AWG	Stranded	28~30	26	24	22~24	20~22	20	(18)
Applic wir	conversion	Solid wire	28	26	24	22	20	18	16

() Reference

(mm) 50



Item No.	Wgt.
PA-07	134g

Applicable Sizes Table

Strip	oper's Hole	e Diam(mm)	0.8	0.95	1.15	1.45	1.8	2.1	2.5
able AMG	Stranded	22~24	20~22	20	(18)	(16)	14	12	
Applic wi	conversion	Solid wire	22	20	18	16	14	(12)	(10)

() Reference

■Wire Stripper AWG Conversion (Reference only)

_								•				_	,
AWO	3	34	32	30	28	26	24	22	20	18	16	14	12
Strauded wire d	iameter(mm)	0.19	0.23	0.29	0.37	0.47	0.59	0.74	0.94	1.18	1.49	1.88	2.37
Conductor dia	meter(mm)	0.16	0.2	0.25	0.32	0.40	0.51	0.64	0.81	1.02	1.29	1.63	2.05
Sectional a	rea(mi)	0.025	0.032	0.05	0.08	0.13	0.2	0.33	0.52	0.82	1.31	2.08	3.31
	PA-05			0.4	0.5	0.65	0.8	0.95	1.15	1.45			
Stripping hole ϕ	PA-06			0.4	0.5	0.65	0.8	0.95	1.15	1.45			
(mm)	PA-07						0.8	0.95	1.15	1.45	1.8	2.1	2.5
	PA-14	0.25	0.3	0.4	0.5	0.65	0.8	0.95					

PA-90



Min. stripping length 1mm!

- Saving time and giving you perfect stripping length every time
- Adjustable stripping length let you work more efficiently and reduces faults.



Tweezers









 Hardened points are finished accurately and tensionized body to provide correct spring action & eliminate strain of fingers.

Indicates spring action with









PT-01

●Length:125mm



TWEEZERS (MM)

TWEEZERS (AA)

●Length: 125mm

*





*

PT-02

**

●Length: 150mm



TWEEZERS (RR)







●Length: 120mm





PT-06 ●Length: 120mm

*





●Length: 125mm

**



PT-08



●Length: 145mm





PT-10



- Serrated inside point
- ●Length: 150mm **

















TWEEZERS(TS)

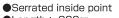
PT-09

- Serrated inside point
- ●Length: 130mm





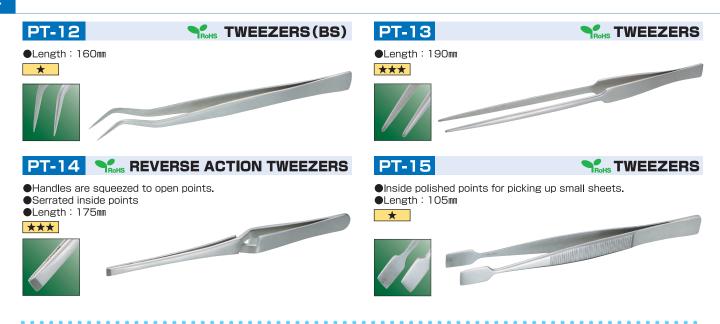




●Length: 230mm









TITANIUM TWEEZERS SERIES (100% ANTI-MAGNETIC)

PT-17

PT-16

- Perfect anti-magnetic titanium, safety in work of electronics and computer device. No solder residue left.
- No corrosion, No rusting and Anti-ionization, ideal for chemical & biological fields
- Light weight, 40% less than ordinary stainless steel tweezers, for fatigue-free work



PT-31





●Length: 120mm with soft case







ENGINEERING PLASTIC, PPS (Polyphenylenesulfide) TIP

- Features ESD-Safe tip ideal for handling static sensitive components
 - Holding the object softly without any possibility of damage like metal tweezers
 - Totally anti-magnetic body including stainless steel shank
 - Anti-acid chemical resistance
 - High wear-resistant and replaceable tip
 - Heat resistance up to 270°C (ASTM D648)
 - * The above is Deflection temperature and is not to guarantee performance of tip against heated object.





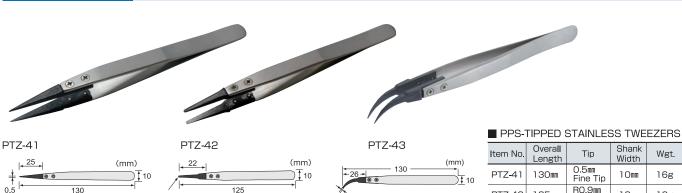








YEARS ESD PLASTIC-TIPPED TWEEZERS



PTZ-91

▲ Fine Tip PTZ-41



Ŕ0.9



▲ Duckbill Tip PTZ-42



▲ Curved Nose (J) PTZ-43



PT7-42

PTZ-43

125mm

130mm



Wgt.

16g



Fine tip

Contents: tip 2 pcs. & screw 4 pcs./set

Item No.	Material	Surface Resistivity
PTZ-91	PPS	$1 \times 10^{5} \sim 10^{7} \Omega$



Duckbill tip

■ Contents : tip 2 pcs. & screw 4 pcs./set

Item No.	Material	Surface Resistivity
PTZ-92	PPS	$1 \times 10^{5} \sim 10^{7} \Omega$

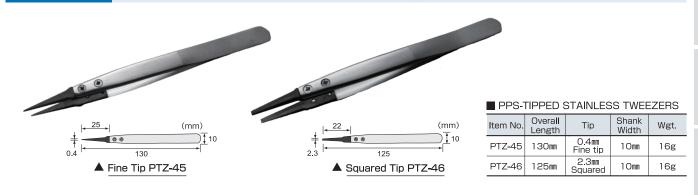


■ Contents : tip 2 pcs. & screw 4 pcs./set

Item No.	Material	Surface Resistivity
PTZ-93	PPS	$1 \times 10^{5} \sim 10^{7} \Omega$

PTZ-45·46

ESD PLASTIC TIPPED TWEEZERS















■ Contents : tip 2 pcs. & screw 4 pcs./set

Item No.	Material	Surface Resistivity		
PTZ-96	PPS	1×10 ⁵ ~10 ⁷ Ω		

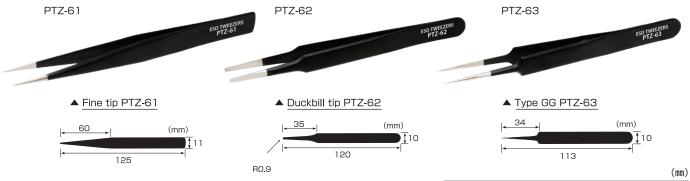
PTZ-61~63

SHACK-COATED ESD TWEEZERS

Static dissipative black-coated tweezers

- ESD-safe body ideal for handling static sensitive components $(1 \times 10^5 \sim 10^8 \Omega)$
- Anti-magnetic and non-corrosive stainless steel body
- Non-slip and anti-glare rugged surface for easy handling





Item No.	Overall Length	Tip Length	Shank Width
PTZ-61	125	60	11
PTZ-62	120	35	10
PTZ-63	113	34	10

PTZ-51 SPARE TIP **TRANS CERAMIC-TIPPED TWEEZERS** PTZ-94 High-temperature resistant ceramic tip featuring less solder adhesive ● Heat resistance: 1,000 °C (Tip) High wear-resistant and anti-acid tip Excellent electrical insulation Material : Anti-Magnetic stainless body with zirconia ceramic fine tip (mm) 25 Contents: tip 2 pcs. &

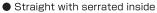
PTS SERIES

0.5











Item No.	Length(mm)
PTS-02	125
PTS-04	150
PTS-05	180
PTS-06	210
PTS-07	240
PTS-08	300

TWEEZERS

screw 4 pcs./set

Screwdrivers



DG-01~04



- 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.





(r	Υ	1	r	r	1	,

Item No.	Point Size	Shaft Length	Shaft diam.	Handle diam.	O.A. Length
DG-01	⊖5.5×0.7	80	5.5	28	200
DG-02	⊕#1	80	5.5	28	200
DG-03	⊝6.3×0.9	76	6.3	32	214
DG-04	⊕#2	76	6.3	32	214

DG-05



CUSHION DRIVER

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



1		_				
-	r	T	٦	r	т	

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



PRO-USE DRIVER

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



Size table

CIZO tablo					(111111)
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 size=width×thickness)



- 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



- 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-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







Size table for ⊕ driver

(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 for ⊖ driver (m									
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	3	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				

DG-21~24 MINI SOFT DRIVER

- Comfortable soft-grip handle.
- Chrome-vanadium steel & perfectly heat-treated blade.
- Black oxide point.
- Chrome plated finish.



(mm)

Item No.	Blade size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DG-21	⊝3×0.4	80	3	21	167
DG-22	⊕#00	80	3	21	167
DG-23	⊖ 4×0.5	80	4	21	167
DG-24	⊕#0	80	4	21	167

Item No.	Blade size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DG-21	⊝3×0.4	80	3	21	167
DG-22	⊕#00	80	3	21	167
DG-23	⊖ 4×0.5	80	4	21	167
DG-24	⊕#0	80	4	21	167

DST-05

DK-16

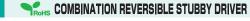
Contents

●DG-21

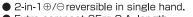
●DG-22

●DG-23

●DG-24



MINI SOFT DRIVER SET



• Extra compact 85mm O.A. length.



DK-51~53

DK-51

● ⊕/⊝Two-in-one

					(111111)
Item No.	Tip size	Blade length	Blade diam.	Handle diam.	O.A. Length
DST-05	⊕#2/⊝6.3	23	6.3	30	85





● 2-in-1 ⊕/⊝reversible in single hand.

Specially compact design in 42mm O.A. length.



(mm)

Item No.	Tip size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DST-01	⊖6.3×0.9	38	6.3	30	86
DST-02	⊕ #2	38	6.3	30	86

Fluted design handle assures perfect thumb and finger grip.

DST-02

DST-06.07 REVERSIBLE DRIVER



- ⊕/⊝Reversible type, 3pcs. set
- Contents: DK-51⊕#00/⊝2.6 DK-52⊕#1/⊝4.5 DK-53⊕#2/⊝6







DK-53	
	11111111.0535.4+2-4-6

REVERSIBLE DRIVER

					(111111)
Item No.	Tip size	Blade length	Blade diam.	Handle diam.	O.A. Length
DK-51	⊕#00/⊝2.6	67	3	18	164
DK-52	⊕# 1 /⊝4.5	82	5	24	195
DK-53	⊕#2/⊝6	89	6.3	26	216

DST-07

DST-06

				(mm
Item No.	Tip size	Bit length	Bit diam.	Handle diam.
DST-06	⊕#1/⊝4.5	16	6.3	27.5
DST-07	⊕#2/⊝6	16	6.3	27.5

DR-54 STUBBY RATCHET DRIVER

- Super compact stubby driver for hard-to-reach areas
- Improved efficiency due to the ratchet mechanism
- Magnet bit socket to attract and hold the bit firmly and securely in place



Item No.	Bit size	Gear positions	Swing arc	Material	Wgt.
DR-54	⊕#2×25mm	45	8 degrees	Handle:Aluminium Bit:Carbon steel	50g

DZ-01·02





	(mm)
) 1.	O.A. Length

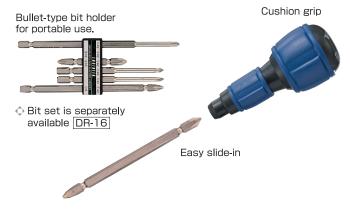
Item No.	Point Size	Shaft Length	Shaft diam.	Grip diam.	O.A. Length
DZ-01	⊝1.6×0.3	30	2	6.3	55
DZ-02	⊕ #000	30	2	6.3	55

DR-52



Provides the most useful and popular magnetic bits.

- Tips also fit most rechargeable and electric drivers.
- Chrome-vanadium steel.
- Cushion grip handle.



DR-07 North TWIN WRENCH DRIVER SET

Designed for sure-gripped work in restricted areas.

- ●10-in-1 combination of the most useful ⊕/⊝tips.
- Knurled cushion handle fits the hand and the job.
- With portable bullet holder.
- Replacement bit sizes ⊕#00,#1,#2 ⊝4.5, 6
 - ●1.5, 2, 2.5, 3, 4



DR-03 RATCHET STUBBY DRIVER

- Compact 95mm O.A. length with a comfortable grip.
- Built-in ratchet mechanism.
- Replacement bits:⊕#2/⊝6mm,⊕#1/⊝4.5mm.
- Knurl shaft for quick rotation



DR-04



- Versatile driver with common replaceable ⊕/⊝ point bits.
- Built-in ratchet mechanism.
- Replacement set includes: ⊕#00,#1,#2,⊖4.5, 6,
 - 2.5, 3, 4, 5, 6
- Knurl shaft for quick rotation





DR-08

NATIONAL STATE STATE OF SET WITH FLEXIBLE SHAFT

Versatile flexible shaft makes difficult jobs easy

• 6-in-1 ratchet stubby type comes with most needed⊕/⊝, hex, box bits and flexible shaft.

Easy access to tighten screws & nuts at hard-to-reach positions. Knurl shaft for quick rotation



For use at hard-to-reach positions.



Flexible shaft is workable with rechargeable driver.



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





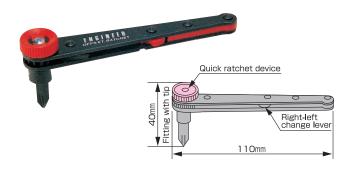
Bullet holder is clipped to belt or tool panel.

CONTENTS

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

DR-05 I OFFSET RATCHET DRIVER

- 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-06 Sept Soffset RATCHET DRIVER WITH BIT SET



Excellent for working in close areas!

- ◆ Versatile driver with most popular ⊕ / ⊖ & 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.



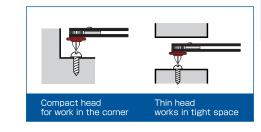


DR-55 MINI OFFSET RATCHET

Only 22mm-high low-profile head accessible to tight space!!

- Built-in quick ratchet device increases work productivity.
- Bit set includes : ⊕#1, #2, #3 &⊝6mm











DR-56

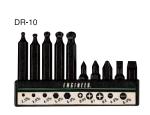
Tons 7-in-1 ANGLED RATCHET

• Ratchet handle with angled heads for ease of operation (Max. torque: 27.4 Nm)



DR-10-11-15~17

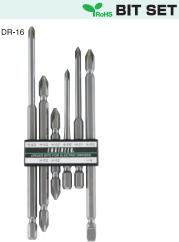
- A comprehensive and wide selection of bits to handle any job or application.
- Bullet type bit holder suitable for portable use
- DR-16 bits are also used for rechargeable or electric drivers.











DR-10 10 ⊕#00,#1,#2, ⊕4.5,6, ⊕ 2.5,3,4,5,6(Ball bit)	Vgt.(g)
	97
DR-11 10 ⊕#00, #1, #2, ⊕4.5, 6, ●1.5, 2, 2.5, 3, 4(Hex bit) 30	67
DR-15 6 ★/★ T5/T6, ★/☆ T7/T8, ☆/☆ T9/T10, T15/T20, T25/T27, T30/T40 110	159
DR-16 6 ⊕ Double end bit···#2×65 #2×110 ⊕Step type···#0×85 #1×100 #2×150 ⊕ bit·····*2/⊝6×135	147
DR-17 10	68

Special Drivers



MOBILE PHONE DRIVER

(mm)

Main Use

Game console

Smart phone/Mobile phone

Smart phone/Mobile phone

Smart phone/Mobile phone

(mm)

Main Use

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.



Point size (mm)							
Item No.	Point size	Shaft Length	Shaft diam	Handle diam	O.A. Length	Main Use	
DTC-20	3.6	90	4.5 7.0	25	190	Game console/Soft	
DTC-27	4.6	90	5.9 7.0	25	190	Game console	



RoHS

DT-10

DT-20

Point size

T2

TX4

T4

T5

T6

T8

Point size

Point size

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 100

DT-06

Applicable to tampering-proof screws (T6~T20)

diam.

3.0

3.0

3.0

3.0

3.0

3.0

3.0

5.5

5.5

5.5

DTY-03

Shaft Handle

O.A

146

146

146

146

146

146

146

200

200

200

diam. |Lengtl

15

15

15

15

15

15

15

25

25

25

Shaft length

75

75

75

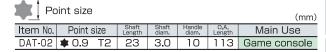
75

75

75

100

100





		(#)	Y	
(2	P		
	A)		

(mm)

Main Use

Smart phone

146 Mobile phone, etc

200 Mobile phone, etc

	4		
6			
1			
		•	

DTY-02 3.0 15 146 Game/Mobile phone DTY-03 75 15 146 Game/Mobile phone 2.4 3.0

SALE BIT SET FOR MOBILE PHONE

DR-18

Point size

Item No. Point size Shaft Length

0.9

1.7

DAP-01

DTP-05

DAP-01

DTP-03

DTP-05

10-in-1 special driver bit set

23 3.0

75 3.0

5.5

100

10

15

25

113

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



DR-50

TWIN WRENCH DRIVER(For Special Screws)

Ideal for sure-gripped work in restricted areas.



- Off-set twin wrench driver with 8 Torx bits and 2⊕/⊖ bits.
- Non-slip knurled cushion handle.
- Bullet type replaceable bit holder.

CONTENTS								(mm)
Shape of Blt	Point				Si	ze			
Torx bit	\$	8	10	15	20	25	27	30	40
⊕⊝bit □ □ □ (2edges)	+-	\oplus	#1/	′⊝4	.5	\oplus	#2/	'⊝6	.0

Bit set is separately available DR-17

DR-51

MASTER GRIP DRIVER (For Hex-Lobe Screws)

Accommodates 12 different sized Torx (hex-lobe) screws.





Cushion grip handle.



Content	s of bit set	(12 sizes)
Tin Chana	Tin Cizo	O A Long

Tip Stiape	Tip Size	U.A.Lengt
/	T-5/T-6	
*/\$	T-7/T-8	
\$ / \$	T-9/T-10	110mm
\$ / \$	T-15/T-20	110
\$ / \$	T-25/T-27	
\$ / \$	T-30/T-40	



Standard accessory

- Hex lobe bit set
- Bullet-type bit holder Master grip

(mm)

150

150

Bit set is separately available DR-15



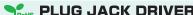
Applications for hex-lobe screws

(mm)

Size 🌣	T5	Т6	T7	T8	Т9	T10	T15	T20	T25	T27	T30	T40
Outer diam 🔯 🗍	1.4	1.7	2.0	2.3	2.5	2.7	3.3	3.8	4.4	5.0	5.5	6.6
Screw adapted	_	M2	_	M2.5	_	МЗ	M3.5	M4	M5	M5	M6	M8

*Diameter is just for reference

DJ-03·04



Easy slide-in

PLUG JACK DRIVER

• Ideal for use with radio microphone jacks.

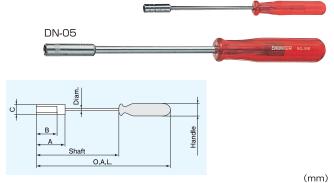


- NUT DRIVER
- Anti-abrasive point of special steel.
- Nickel-plated finish.





Shaft Handle Item No. O.A. Length Α В С length diam. diam. DJ-03 4 75 4.3 16 DJ-04 6 75 4.3 16



DN-01

Item No.	Size●↓	А	В	С	Shaft Length	Shaft diam.	Handle diam.	O.A. Length	Screw adapted
DN-01	3	18	9	6	75	3.0	11	130	(1.4)
DN-02	4	18	9	6	75	3.0	11	130	2
DN-03	4.5	18	9	8	75	4.0	13	145	(2.3)
DN-04	5	35	25	7.5	75	4.3	16	150	(2.6)
DN-05	5.5	35	25	9	125	5.5	18	210	3
DN-06	6	35	25	9	125	5.5	18	210	(3)
DN-07	7	35	25	11	125	5.5	18	210	4
DN-08	8	35	25	12	125	5.5	18	210	5
DN-09	9	35	25	13	125	5.5	18	210	(5)
DN-10	10	35	25	14	125	6.3	22	220	6
DN-12	12	36	25	17	125	6.3	22	220	(6)

()=old specifications

DNC-55T·57T·65T

Magnet hold type for easy operation

- 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)



NUT CATCHING DRIVER

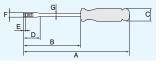












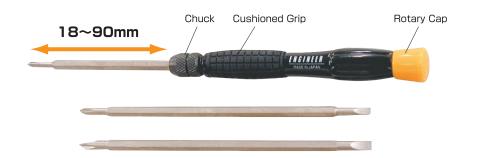
DNC-65T

									(mm)
Item No.	Size ● ‡	Α	В	С	D	Е	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)

REVERSIBLE PRECISION DRIVER SET

- lacktriangle Driver's shaft length to be adjustable 18~90mm.
- 4mm slim shaft with double-ended blade (5-in-1)
- Cushioned grip for well-fitting with fingers.
- With rotary cap for quick rotation or precise alignment work



Contents 3 pcs. (Double-ended)								
Length: 125mm								
# 00								
# O								
# 0								



HEX DRIVER

DKD-01

DK-13

Sense CIRCUIT TESTING DRIVER

- AC80~250V, DC100~300V
- For continuity & transmitting test
- O.A. Length: 129mm



DKD-03

LED CIRCUIT TESTER

- AC100-250V (Low voltage use)
- High brightness LED built-in
- Continuity check of circuit
- Polarity check of electric outlet
- Blade (3.0 x 0.4mm) with protective cap ● O.A. Length: 120mm





DB-15~40

BALL POINT DRIVER

- Ball head will work from an angle up to 30° off axis.
- Heat-treated alloy steel with electroless nickel plating
- Magnetized point







DB-30

					(IIIIII)
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	3	16	173
DB-40	4	120	4	18	204

DH-15~50

Heat-treated, chrome-molybdenum alloy steel blade.





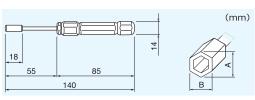
Item No	Size •↑	Shaft length

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

DK-14

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





Materials	
Socket:Cr-Mo Shaft:Cr-V Handle:Cellulose Acetate Cap:PP	9

NUT DRIVER SET



design



Self-standing holder

					(mm)		
Item No.	Across Flats	Screw Diameter	Ext. Soc	ket Size	Wgt.		
item No.		₽	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		
DK-14	5	M2.5/M2.6	8	7	(Holder included)		
	5.5	МЗ	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.



DK-01 (4pcs)

- ●DH-15
- ●DH-20 ●DH-25
- ●DH-30



DK-02 **(6pcs)** ●DH-15

- ●DH-20
- ●DH-25
- ●DH-30 ●DH-40 ●DH-50

Screw	(mm)	
Size	Cap screw	Set screw
1.5	M1.6,M2	МЗ
2.0	M2.5,M2.6	M4
2.5	МЗ	M5
3.0	M4	M6
4.0	M5	M8
5.0	M6	M10

HEX DRIVER SET



DK-03 SALL DRIVER SET

******* (*** (***)

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



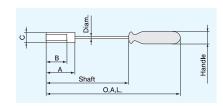
DK-03(5pcs)

- ●DB-15
- ●DB-20
- ●DB-25
- ●DB-30
- ●DB-40

DK-04







NUT DRIVER SET

							(mm)
Size	А	В	С	Shaft length		Handle diam.	O.A. Length
3			6				
3.5			6		3.0	11	130
4			6				
4.5	18	9	8	75		4.0	1.45
5			8		4.0		
5.5			9		4.0	13	145
6			a				









(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)
Item No.	Tip Size	Blade Diam.	O.A. Length
DM-31	1.0×0.2	1	73
DM-32	1.2×0.3	1.2	79
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
DM-36	3.5×0.7	3.5	118

Item No. | Tip Size | Blade Diam. | O.A. Length DM-22 #000 1.6 84 DM-24 #0 102 2.4 DM-25 110 3 DM-33 1.8×0.3 1.8 89 DM-34 2.4×0.45 DM-35 3.0×0.6 2.4 102 3 110



With circuit testing driver handle for low voltage.

(AC80~250V/DC100~300V) Contents: 95.5mm, 9#00, #0, #1, #2,#3

DK-06 INTERCHANGEABLE DRIVER SET

With circuit testing driver handle for low voltage. (AC80~250V/DC100~300V)

Contents:⊕#1,#2,⊖3, 5.5mm, **o**5.5mm, awl

Contents: **0**4, 5.5, 6, 7, 8,10mm

DK-08 INTERCHANGEABLE DRIVER SET

DK-05P-06P Rohs INTERCHANGEABLE DRIVER SET

 Cost-saving package in Plastic blow-mould case

 Contents exactly same as DK-05 & DK-06









DA-48~52

SCHOOL STREET SCHOOL STREET

Four-in-One Slotted Tip & Hex Core Ceramic Alignment Screwdrivers.

- Perfect non-conductive tip for high frequency trimming.
- Ideal alignment screwdriver for short-circuit prevention
- Four-in-one double ended tool.
- Pen-type design with protective caps and pocket clip.
- φ8 x 136mm long



IFT trimmer



coil trimmer



(Slotted)



(Phillips)

Item No. Size ◆Core)0.7×1.3 2 DA-48 0.4×2.4 2.5 0.35×0.8 2 DA-50 Ð#0 ∋0.4×0.9 DΔ-51)0.4×1.8 2.5)0.4×1.3 2 DA-52 0.7×2.5

(Slotted)





DA-53~59

YROHS CERAMIC ALIGNMENT SCREWDRIVER

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
- \bullet ϕ 9 x 135mm long





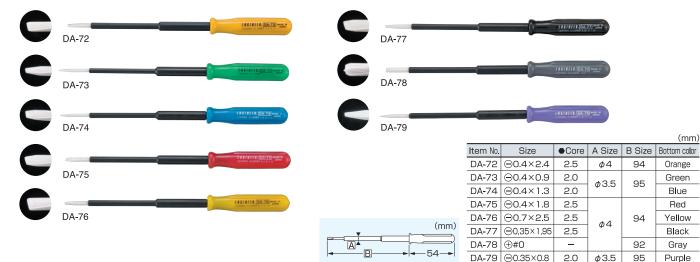
			(mm)
Item No.	Size	●Core	Bottom color
DA-53	⊝0.4×0.9	2.0	Green
DA-54	⊝0.4×1.3	2.0	Blue
DA-55	⊝0.4×1.8	2.5	Red
DA-56	⊝0.7×2.5	2.5	Yellow
DA-57	⊖0.35×1.95	2.5	Black
DA-58	⊕#0	-	Gray
DA-59	⊝0.35×0.8	2.0	Purple

DA-72~79

YEARS CERAMIC ALIGNMENT SCREWDRIVER

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
- 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)



DA-81~88

CERAMIC ALIGNMENT SCREWDRIVER

Compact designed ceramic alignment drivers. Perfect for assembly line trimming.

- Fine zirconia ceramic tipped alignment screwdrivers, highly intensive, durable, and perfectly non-conductive.
- Two-in-one function with slotted tip and hex core. (except DA-88)
- Ergonomically designed with convenient rotary cap.









IFT trimmer (Slotted)

coil trimmer

trimmer (Slotted)

trimmer (Phillips)















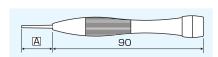






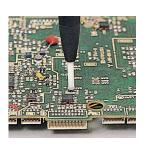












				(mm)
Item No.	Size	● Core	ASize	BOTTOM COLOR
DA-81	⊝0.7×1.3	2		Purple
DA-82	⊝0.4×2.4	2.5		Orange
DA-83	⊝0.4×0.9	2		Green
DA-84	⊙0.4×1.3	2	18	Blue
DA-85	⊝0.4×1.8	2.5		Red
DA-86	⊝0.7×2.5	2.5		Yellow
DA-87	○ 0.35×1.95	2.5		Black
DA-88	⊕#0	ı	15	Gray



DA-01·02



 Alignment tool for TV, tuner, trimmer under a high frequency current.



DA-40



- E.S.D. free construction (Safe from static discharge)
- Overall length: 125mm







Wrenches

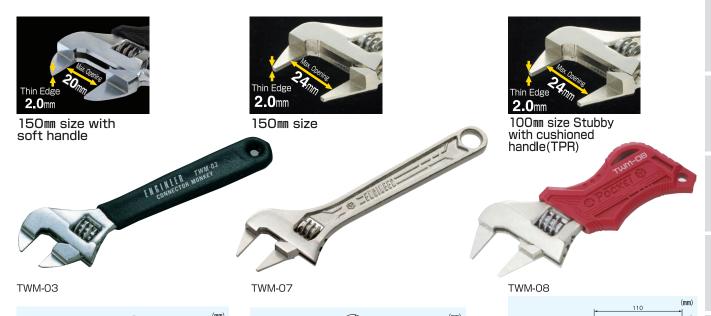


SMART MONKEY WRENCH

- 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)

NOTE: SMART MONKEY WRENCH

TWM-03.07.08

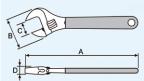




TWM-01.02.04.05

- Heavy duty adjustable wrench
- Soft grip for easy handling.





					(mm)
Item No.	Nominal Size	Α	В	С	D
TWM-04	100	100	32	13	8
TWM-01	150	155	45	20	10
TWM-02	200	210	57	25	14
TWM-05	250	260	68	30	15

ADJUSTABLE ANGLE WRENCH

TS-04

MINI COMBINATION SPANNER SET

- 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.	Sizes		Thick	Length			
TLETTI NO.	Вох	Open	THICK	Lengui			
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					

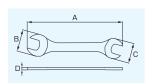
DROP-FORGED WRENCH SET

Features • 5-in-1 Set with carrying case • Material:Cr-V Steel

TS-05







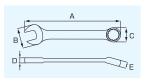
(mm)

Size	Α	В	С	D	Wgt.(g)
3.2×5.5	70	13	10	2.4	7
4×5	70	13	10	2.4	7
6×7	80	16	14	2.7	12
8×9	90	20	18	3	17
10×11	100	23	21	3	23

TS-06







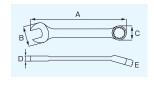
(mm)

Size	Α	В	С	D	Е	Wgt.(g)
3.2	77	10	6.5	3	3.1	7
3.5	77	10	6.5	3	3.1	7
4	77	10	7.5	3	3.1	7
5	82	11.8	9	3.2	4.1	9
5.5	82	11.8	9.5	3.2	4.1	9

TS-07

NOTICE TO SET UP:Note: The combination when the combination will be combined by the combin





		(mr	Υ
=	-		=

						(mm)
Size	Α	В	С	D	Е	Wgt.(g)
6	88	15	10.4	3.8	5	14
7	88	15	11.5	3.8	5	14
8	94	17.2	12.5	4.3	6	20
9	98	19.4	14	4.6	6.2	23
10	103	215	15.3	51	66	29

TWB-01·02·04·05

Ball head (magnetized) works from an angle up to 30° off axis.

- Heat treated special alloy with electroless nickel plating
- Hardness : HRC57±2

TWB-01 8-in-1 Standard Long Shank



TWB-02 8-in-1 Stubby Arm, Long Shank

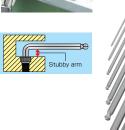
 Stubby arm accessible to restricted area where overhead space is tight





,	TWB-O1 (8 pcs./set)		TWB-02 (8 pcs./set)	TWB-04 (8 pcs./set)	TWB-05 (8 pcs./set)
	Across Flat (mm)	A×B (mm) (Individual model)	AxB(mm)	AxB(mm)	AxB(mm)
	● 1.5	81×14 (TWB-15)	81×4	51×14	51×4
	●2.0	96×16 (TWB-20)	96×5	58×16	58×5
	● 2.5	111×18 (TWB-25)	111×6	65×18	65×6
	●3.0	127×20 (TWB-30)	127×8	74×20	74×8
	● 4.0	142×25 (TWB-40)	142×9	78×25	78×9
	●5.0	160×28 (TWB-50)	160×11	89×28	89×11
	● 6.0	180×32 (TWB-60)	180×13	101×32	101×13
	●8.0	198×36 (TWB-80)	198×16	112×36	112×16

SALL POINT HEX WRENCH SET



TWB-04 8-in-1 Standard Arm, Short Shank Hand-held compact sized body in bullet holder

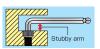


TWB-05 8-in-1 Stubby, Short Shank

- Stubby arm accessible to restricted area where overhead space is tight
- Hand-held compact sized body in bullet holder



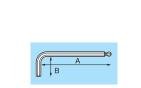
METRIC SIZE





TWB-13~80 SRALL POINT HEX WRENCH

Electroless nickel plated



Item No.	Across Flats	A×B mm
TWB-13	1.27	70×13
TWB-15	1.5	81×14
TWB-20	2.0	96×16
TWB-25	2.5	111×18
TWB-30	3.0	127×20
TWB-40	4.0	142×25
TWB-50	5.0	160×28
TWB-60	6.0	180×32
TWB-80	8.0	198×36



TWH-01.02.04 North HEX KEY WRENCH SET



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

INCH SIZE



Item No.	pcs.	Set(inch)					
TWH-02	7	0.71mm, 0.89mm, 0.05", 1/16", 5/64", 3/32", 7/64"					







Applicable Sizes Chart							
Hex Across Flats	Cap Screw Diam.	Set Screw Diam.					
<u></u> mm							
1.27	M1.4	M2.5					
1.5	M1.6, M2	МЗ					
2.0	M2.5, M2.6	M4					
2.5	МЗ	M5					
3.0	M4	M6					
4.0	M5	M8					
5.0	M6	M10					
6.0	M8	M12, M14					
8.0	M10	M16, M18					

Hex Key Wrench in metric size

Item No.	Across Flats	L Size
TWH-11	1.5	45×14
TWH-12	2.0	50×16
TWH-13	2.5	56×18
TWH-14	3.0	63×20
TWH-15	4.0	70×25
TWH-16	5.0	80×28
TWH-17	6.0	90×32
TWH-18	8.0	100×36

Hex Key Wrench in inch size

Item No.	Across Flats	L Size			
TWH-20	(0.71)	35×10			
TWH-21	(0.89)	38×10			
TWH-22	0.05"(1.27)	40×11.5			
TWH-23	1/16"(1.59)	42.5×12.5			
TWH-24	5/64"(1.98)	45.5×13.5			
TWH-25	3/32"(2.38)	48.5×14.5			

TWS-01~05

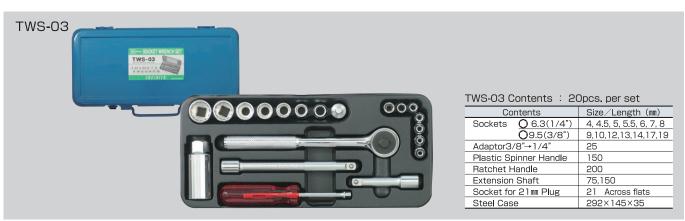


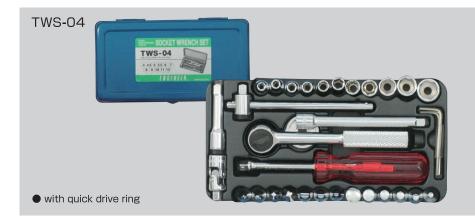
- Socket wrench sets contain the complete combination of most needed sockets.
- Chrome molybdenum steel sockets and chrome vanadium ratchet handles.



TWS-05 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					
O12,7(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					







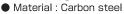
TWS-04 Contents : 34pcs. per set							
Contents	Size/Length(mm)						
Sockets 0 6.3(1/4")	4, 4.5, 5, 5.5, 6, 7						
	8, 9,10,11,13						
Hex. Bits	3, 4, 5, 6, 8, 10						
Phillips Bits	#1,#2,#3,#4						
Slotted Bits	4, 5.5, 7						
Hex Wrenches	1.5, 2, 2.5						
Plastic Spinner Handle	150						
Ratchet Handle	125						
Extension Shaft	50, 100						
T Type Sliding Handle	115						
Universal Joint	35						
Steel Case	200×110×30						



Cutting and Processing

TR-01~04

For reaming holes in sheet metal, aluminum and similar material







			(111111)
Item No.	Size	Blade	Length
TR-01	φ3.0~12	81	113
TR-02	φ4.0~16	85	118
TR-03	φ5.0~20	95	130
TR-04	φ6.0~30	107	145

TAPER REAMER

**Hardness: HRC 55±3

TDS-01-02-03













TDS-02

TDS-03

													(111111)
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			•	•		•		•	•			
TDS-02	6						•		•	•	•	•	•
TDS-03	8												



	(mm)
Item No.	Size
TD-03	0.3
TD-04	0.4
TD-05	0.5
TD-06	0.6
TD-07	0.7
TD-08	0.8
TD-09	0.9
TD-10	1.0
TD-12	1.2
TD-15	1.5

	(11111)
Item No.	Size
TD-16	1.6
TD-18	1.8
TD-20	2.0
TD-25	2.5
TD-30	3.0
TD-32	3.2
TD-35	3.5
TD-40	4.0
TD-50	5.0
TD-60	6.0

TT-01·02





TAP





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



▼TT-03 CONTENTS

●Tap, 4pcs(2, 3, 4, 5mm) ●Tap Handle(TT-02)

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



- Used for various applications to drilling, tapping, piercing (handy reamer) grinding, etc.
- Featuring precision clamping chuck (collet)
- Material:Body-Brass Collet-Steel with plating

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



TP-24

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

TP-23

(mm)







Single end with swivel head with 2 pcs. of Double-head collets



Item No.	Collet Type	Diameter of Drill Bit	Shank	Joint	O.A. Length	Weight (g)	
TP-23	Double Head	⊕0.1~1.2 2.0~2.5 ♦	φ8	_	105	35	
		₹31.2~2.0 2.5~3.2	Ψο				
TD 24	Double Head	⊕0.1~1.2 2.0~2.5 ♦	φ8	_	95	40	
1P - 24		₹ 1.2~2.0 2.5~3.2					
TP-20	Sing l e Head	⊘ 0.7~1.9		●6.3	50	20	
		Ø10.20	7 -	₩ 0.3	50	20	

₿1.9~3.0

TV-01~27



Size Max. Opening

35

35

50

50

TV-04

38

50

63

75



75
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.



TV-26



YANKEE VISE

	(mm)
Opening	

None VISE

	Item No.	Size	Max. Opening	
			В	С
_	TV-25	50	61	55
	TV-26	65	76	70
	TV-27	75	84	78
-				

TN-01~05

BENCH VISE

Item No.

TV-01

TV-02

TV-03

TV-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)

(mm)

Clamp

0~21

0~32

5~33

18~40



- Blade contained
 TN-17 (standard)
 TN-13&15 (spare)
 The ideal saw blades made of
- 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

TN-17



Item No.	Nominal Size	Blade Thick (mm)	Notches/ 25mm	Applications
TN-11	#3/0	0.24	61	Noble
TN-12	#2/0	0.26	56	metals
TN-13	#0	0.28	53.5	Brass & thin
TN-14	#1	0.30	51	Iron Sheet
TN-15	#2	0.34	43	Copper,
TN-16	#3	0.36	40.5	Shell
TN-17	#4	0.38	38	Iron Sheet, Wood,
TN-18	#5	0.40	35.5	Plastic

TM-04·05



TZ-02~04 Saw/HACK SAW

TM-04

Item No.	Scale
TM-04	15cm
TM OF	30cm



	Item No.	Blade Size	Shape	Length
	TZ-02	250mm24notches	Plastic Grip	260mm
	TZ-03	2301111124110101185	Piping Frame	400mm
Penlegement blode T7 04 (10ncs (dezen)				

■Replacement blade TZ-04 (12pcs/dozen)

TZ-02 Adjustable blade

TZ-05·07





TF-06·07·10



TF-10

Item No.	Shape	Length(mm)	Grip
TF-06			
TF-07	0	200	Rubber
TF-10			

handle

PROHS FILE

TF-11~45

Sens JET BLACK FILE

High performance, Rust-resistant, Black coated files

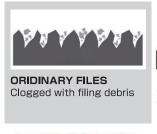






(mm)

Item No.	Shape	Coarseness	Blade length	O.A. length	Wgt(g)
TF-11					58
TF-12					59
TF-13	0	Second-cut		215	41
TF-14					52
TF-15	Δ				56
TF-21					21
TF-22				200	18
TF-23	0	#3	100		16
TF-24					19
TF-25	Δ				17
TF-31				215	58
TF-32					61
TF-33	0	Smooth-cut			40
TF-34					55
TF-35	Δ				58
TF-41				325	166
TF-42				320	153
TF-43	0	Second-cut	175	300	109
TF-44				005	112
TF-45	Δ			325	166





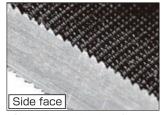
Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.





Sharp edge of teeth

Rust-resistant black coating



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



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



TFS-10 W240×L240(mm)

W50×L240×H50(mm)

									(11111)	
Item No.			Shape			Bruch	Coarseness	Blade length	O A longth	Wat(a)
item No.			0		\triangle	Diusii	Coarseness	Diduc length	O.A.IGIIGUI	WEL(E)
TEC 07	TF-11	TF-12	TF-13			_	Second-cut	100	215	274
TFS-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

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	•	•	•	•	•	200

Sets and Cases



Pocketable & reasonable kit for daily use

NOTICE MY KIT

KS-02

Simple & basic tool kit







■Set of 7 items

NSX-04	Micro nippers	115mm
	Miniature pliers	115mm
		125mm
DM-22	⊕Precision driver	#3/0
DM-33	⊕Precision driver	1.8mm

	⊕Screwdriver	#00
DS-13	Screwdriver	2.6×75
	:135×90×30m nt:0.25kg	ım

■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: 220×145×35mm •Weight: 0.5kg

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

Set	OI IZ ILEIIIS	
NN-45	Slant edge nipper	rs 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
oparo bito	Slotted bit	⊖5.5mm
	Hex nut bit	Q5.5mm
	Awl (square)	
	Cuttor knife (C)	

Cutter knife (S)

Case: 160×90×35mm

Weight: 0.5kg



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



■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
ahais nira	Slotted bit	⊖5.5mm
DM-22	⊕Precision driver	#000
DM-24	⊕Precision driver	#0
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)



KSC-05

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)



Cordless soldering iron

Set of 13 items

NK-15	Diagonal nippers	125m
PR-16	Long nose pliers	150m
	Combination pliers	150m
	⊕Screwdriver	#00
	⊕Screwdriver	#(
	⊕Screwdriver	#2
DS-33	⊖Screwdriver	4×75
DA-02	Alignment screwdriver	150m

	Tweezers	125mm		
TWH-01	Hex key wrench set			
	Soldering iron	26W		
SW-30	Solder	20g		
	File (flat)			
●Case: 255×150×50mm				

•Weight: 1kg

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

Set of 14 items

000	OI I TILCING	
NK-15	Diagonal nippers	125mm
PR-16	Long nose pliers	150mm
	Combination pliers	150mm
DS-03	⊕Screwdriver	#00
DS-23	⊕Screwdriver	#0
DS-64	⊕Screwdriver	#2
DS-33	⊖Screwdriver	4×75
DA-02	Alignment screwdriver	150mm

m		Tweezers 125mm
m		Hex key wrench set
m	SK-60	Cordless soldering iron(w/cap)
ō	SK-66	Hot blow tip
Ō	SW-30	Solder 20g
		File (flat)
5	Case	: 255×150×50mm

■ •Weight: 1kg

KS-06(KSE-06) **MAINTENANCE KIT**

●For field maintenance service (Complete Set)



KSC-06

MAINTENANCE KIT

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

●For field maintenance service (Complete Set)



■Set of 20 items

NN-46	Slant edge nippers		150mm
PR-16	Long nose pliers		150mm
PD-06	Side cutting pliers		150mm
PC-06	Combination pliers		150mm
PTS-02	Tweezers		125mm
DS-03	⊕Screwdriver		#00
DS-23	⊕Screwdriver		#0
DS-64	⊕Screwdriver		#2
DS-13	⊖Screwdriver	2	.6×75
DS-54	⊖Screwdriver	5.5	×100
DN-05	Nut driver		5.5mm
DA-02	Alignment screwdriv	er/	150mm

SKC-40	Soldering iron	32W	
SW-30	Solder	20g	
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			

KSE-06 Case only

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

Set	of 21 Items		
NN-46	Slant edge nippers		150mm
PR-16	Long nose pliers		150mm
PD-06	Side cutting pliers		150mm
PC-06	Combination pliers		150mm
PTS-02	Tweezers		125mm
DS-03	⊕Screwdriver		#00
DS-23	⊕Screwdriver		#0
DS-64	⊕Screwdriver		#2
DS-13	⊖Screwdriver	2	.6×75
DS-54	⊖Screwdriver	5.5	×100
DN-05	Nut driver		5.5mm
DA-02	Alignment screwdriv	/er	150mm

	Cordless soldering iron(w/cap)	
SK-66	Hot blow tip		
SW-30	Solder	20g	
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			

Cordless soldering iron

●Weight: 2kg

KS-03(KSE-03) **TOOL KIT**

General electronic & job training use



■Set of 12 items

NN-45	Slant edge nippers	125mm
PR-16	Long nose pliers	150mm
DS-03	⊕Screwdriver	#00
DS-23	⊕Screwdriver	#0
DS-64	⊕Screwdriver	#2
DS-33	⊖Screwdriver	4×75
DA-01	Alignment screwdriver	100mm
PTS-01	Tweezers	125mm
	Soldering iron	30W
	Solder	
	Solder paste	
	Soldering stand	

•Case: 240×115×45mm •Weight: 0.8kg

KSE-03 Case only

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

KS-04(KSE-04)

TOOL KIT

KSC-04

TOOL KIT

• General electronic & job training use

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



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 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
DS-03	⊕Screwdriver	#00		Solder	
DS-23	⊕Screwdriver	#0		Solder Paste	
DS-64	⊕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

Set of 15 items

NN-45	Slant edge nippers	125mm
PD-06	Side cutting pliers	150mm
PR-16	Long nose pliers	150mm
	Tweezers	125mm
	Nut driver	5.5mm
	⊕Screwdriver	#00
	⊕Screwdriver	#O
DS-64	⊕Screwdriver	#2

●Case: 255×150×50mm ●Weight: 1.1kg

m		⊖Screwdriver 4×75
m	SK-60	Cordless soldering iron(w/cap)
ım	SK-66	Hot blow tip
ım		Solder
ım		Solder Paste
5		Soldering stand
		Cutter knife (S)
2		

KS-08 **ELECTRONICS KIT**

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



■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
0: '.	Phillips bit	⊕#00
Circuit	Phillips bit	⊕#0
testing driver with	Phillips bit	⊕#1
spare bits	Phillips bit	⊕#2
oparo bito	Slotted bit	0 3.5mm
	Cutter knife (S)	
	File (half-round)	

●Case: 255×150×50mm

●Weight: 1.0kg

TRANS ELECTRONICS KIT

•For electronics, office automation maintenance, etc.

KS-14

●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	⊕#0
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)	

TOOL KIT

330mm wide pocket on the reverse

●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.



mesh pocket

Clear pocket

(detachable)

■KS-28 Set of 22 items

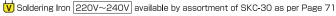
NN-46	Slant edge nippers	150mm
PR-16	Long nose pliers	150mm
PD-06	Side cutting pliers	150mm
PZ-55	Screw removal pliers	3 150mm
PW-08	Pump pliers	200mm
PTS-01	Tweezers	125mm
DA-01	Alignment driver	100mm
DKD-01	Circuit testing driver	-
DN-05	Nut driver	5.5mm
DG-05	⊕/⊖Cushion driver	#2/⊖6
DG-21	⊖Mini soft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

	Soldering iron	26W
	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





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

KS-11(KSE-11) **TOOL KIT**

Field service and maintenance of production lines & machinery Set of 60 items

KS-11(Tool kit)

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



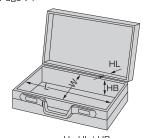
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NS-03	Micro nippers 125mm
NN-46	Slant edge nippers 150mm
PS-01	Miniature pliers 125mm
PR-46	Needle nose pliers 150mm
PD-06	Side cutting pliers 150mm
PC-06	Combination pliers 150mm
PW-10	Pump pliers 250mm
PA-01	Wire pliers
PT-01	Tweezers 125mm
PH-03	Lock holder 150mm
PH-33	Electronic snips 145mm
DS-03	⊕Screwdriver #00
DS-24	⊕Screwdriver #0
DS-44	⊕Screwdriver #1
DS-64	⊕Screwdriver #2
DS-13	⊖Screwdriver 2.6×75
DS-34	⊖Screwdriver 4×100
DA-02	Alignment driver 150mm
DM-22	⊕Precision driver #3/0
DM-23	⊕Precision driver #00
DM-33	⊖Precision driver 1.8mm
DM-34	⊖Precision driver 2.3mm
DZ-24	Screw-holding driver #0
DG-12	Long pro-grip driver #2×250mm
DN-02	Nut driver 4mm
DN-04	Nut driver 5mm
DN-05	Nut driver 5.5mm
DN-07	Nut driver 7mm
B0-ND	Nut driver 8mm
DR-04	Ratchet stubby driver set
DZ-08	Offset driver set

TWM-02	Adjustable angle wrench	200mm
	Mini spanner set (5 pcs.)
TR-03	Taper reamer	20mm
	Hammer	
	Measuring tape	
TWH-01		set
TWS-02		set
	File set	
TZ-02		
SKC-40		32W
SW-31	Solder	150g
SS-05		stand
SS-02	Solder sucker	
SS-08		
SS-21	Spring hook	
SS-22		
	Inspection mirro	r
TP-35		p tool
	Parts box	
SWU-04	Solder wick	2.8mm
	Vinyl tape	
	Pen light	
	Cutter knife (L)	
ZC-19		20cc
	Flat brush	
	Poly bottle 50cd	
	Poly bottle 100cc	/2pcs.
	Silicon cloth	
SD-10	Digital Multimet	er
- 41		

● Aluminum Case:
455×330×176 (Ext.)
440×315×168 (Int.)
● Weight: 12kg

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



H=HL+HB

KS-12

Stylish and functional tool kit

ATTACHE TOOL KIT



■Set of 25 items

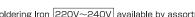
NS-03	Micro nippers	125mm
PS-01	Miniature pliers	125mm
PD-06	Side cutting pliers	150mm
PTS-01	Tweezers	125mm
DA-51	Ceramic alignment dri	ver
DG-21		3×0.4
DG-22	⊕Mini soft driver	#00
DG-24	⊕Mini soft driver	#0
DG-01	⊖Pro grip driver !	5.5×0.7
DG-04	⊕Pro grip driver	#2
DST-05	⊕ Reversible stubby driver #	#2/⊝6.3
SD-10	Digital multimeter	<u> </u>
SKC-30	Soldering iron	26W
SS-02	Solder sucker	
SS-08	IC extractor	<u> </u>
SS-10	PCB connector extrac	ctor
SW-30	Solder	20g
TWM-03	Smart monkey wrench	150mm
TWH-04	Hex key wrench set	
TS-05	Mini spanner set (5 po	cs.)
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)

							(111111
Item No.	L	W	Н	HL	НВ	Weight(kg)	Color
KS-12	465 (450)	345 (320)	129 (105)	(35)	(70)	6	Black

(): Internal size



KSE-12

NAME ATTACHE CASE WITH EMPTY PANEL

- Neatly designed for a stylish appearance
- Incorporating empty tool panel and document pocket



KA-22

ATTACHE CASE(WIDE TYPE)

INSIDE

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.





Besides business use, add functional and

fashionable pockets and storage pouch to

Offer clear see-through mesh type pocket at the back of dividing plate.

meet multipurpose requirements.

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

HANDLE Designed to fit the hand and reduce hand fatigue.

							(11111)
Item No.	L	W	Н	HL	HB	Weight(kg)	Color
KA-22	450	320	105	35	74	2.4	Black



KA-50·51

- Featuring a matt surface in silver color
- Streamline appearance







NAME ALUMINIUM CASE

Durable handle

Internal Size								
Ī	Item	L	W	Н	HL	HB	Weight(kg)	
	KA-50	440	320	105	40	65	2.6	
ſ	V / 51	440	330	120	50	90	20	

KA-57

Stylish case coming with shock-proof sponges and tool panel





Item No.

KA-57 450(435)

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







Each cut sponge (15x15mm) can be removed so as to fit the size and shape of content.

ALUMINIUM CASE

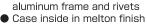


■External	dimensions	(Internal	dimensions)	

(IIII uiii	1611310113)		(111111)			
W H		HL	НВ	Tool Panel (single)	Weight(kg)	
330(314)	135(120)	(52)	(68)	420×300	4.1	

KA-30·42~44

- Heavy-duty type
- Made of 1.5mm-thick rugged aluminium of anodized finish
- All the corners reinforced with







Water-repellent, anti-static or cleanroom type is available at option.



KA-44 is originally equipped with casters. Other models can be equipped with casters at option.

ALUMINIUM CASE



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

	Internal	(mm)	(kg)					
Item No.	L	W	Н	HL	НВ	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	74	20	

NAME ALUMINIUM CASE FOR CLEANROOM

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

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

NAMES ALUMINIUM ATTACHE CASE

KA-54

Item

• Featuring a glossy surface in black color Streamline appearance



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



Ext. Size : 255×190×40mm 16 pcs. of dividing plates included

KP-02K·03K(KP-96·97)

PARTS BOX (HEAVY DUTY TYPE)

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



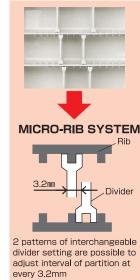
●KP-02K

Ext. Size: 205×145×40mm 18 pcs. of dividers included



●KP-03K

Ext. Size : 255×190×40mm 32 pcs. of dividers included



KP-04

MINIATURE BOX

- Most suitable for electronic parts and other small components.
- Compact, lightweight and portable.
- Material: Styrene resin(lid), Polypropylene (body).
- External Size:120×92×25mm



KP-51.52



- Compact IC storage box made of anti-static plastic body
- Comes with 10mm-thick high density conductive foam (Surface resistivity less than $5x10^6\Omega$)





KP-51

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



KP-52

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

Soldering Equipment



SK-30/40SERIES

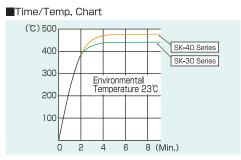
SOLDERING IRON

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)







SK-30 SERIES

■Specification

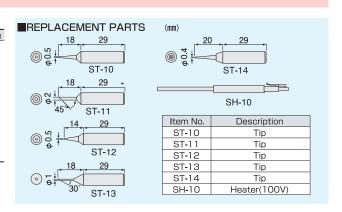
Item	No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance
SK-C	30							
SKC	30	400℃		ST-10				
SKE	-30	440°C 390°C	26W		202mm	130	100V	100ΜΩ
SK-C	31							
SKC	C-31							
SKE	-31							
SK-C	32			ST-14	204mm			
SKC	32							

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

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.



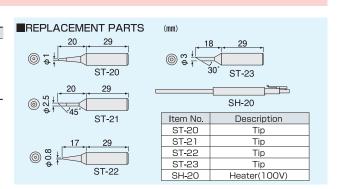
SK-40 SERIES

Specification

Item No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance
SK-40	450℃ 470℃		ST-20 204mm 130 100V				
SKC-40		32W		1001/	100ΜΩ		
SK-41		32W		1000			
SKC-41			31-21				

■ SKC with Heat-Resistant Cap.

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



SK-30 SERIES **SOLDERING IRON**

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

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- The use of a small connector connecting heater and power cord permits exchange of heaters with one touch.
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- 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)

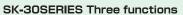
■SK-30~31













Sharp iron tip (Long life & durable type)



inside tip for prevention instant replacement against sticking loosening of the tip



Special stainless steel Plug-in type heater for

■Time/Temp. Chart (°C) 500 400 300 Environmental Temperature 23°C 200 100 4 6 8 (Min.)

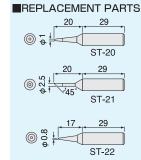
SK-30 SERIES

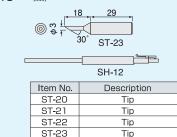
■Specification

Item No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance
SK-30							
SKC-30	445℃		ST-20				
SKE-30		30W		204mm	130	220	10000
SK-31		30W		204	130	240V	100ΜΩ
SKC-31	500℃		ST-21				
SKE-31							

■ST-22 Max. Tip Temp. 430°C ■ST-23 Max. Tip Temp. 500°C

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





SH-12

Heater(220~240V)

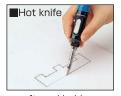
SK-60SERIES

Notelyzer KOTELYZER

Newly designed compact body with various functions!

- Perfect for in-field service and maintenance where accessibility may be limited.
- Light weight for fatigue free use.
- One touch ignition and super quick heat-up (equivalent up to 60 watts).
- More than one hour continuous use capacity.





Arts, craft, and hobby use such as plastic shaping and rope



Pin point accurate hot air for shrink tubing and plastic welding.

SKB-60 Contents ●Body (SK-61 solder tip)

- Hot blow tipHot knife tip
- Multi-holderProtective cap



Three-in-one heat tool with soldering, hot blow,

and hot knife

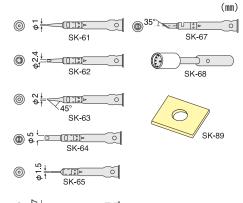
■Kotelyzer(SK-60)Specifications

S	ystem	Gas Catalyst Reaction System				
Themal Output	Soldering Iron	200°C~450°C (Equivalent to 15~60W electric soldering iron)				
Output	Hot Blow	650℃ MAX				
Gas Co	ntainer Capa.	14ml				
Operation Time for One Gas Fill		Abt 1 hour 15min.				
O.A	. Length	216mm including cap				
V	Veight	66g				

Two-in-one heat tool with soldering and hot blow. SKC-60 Contents ●Body(SK-61 solder tip) Hot blow tip Protective cap Cleaner stand

SK-60SERIES

REPLACEMENT PARTS



Item No.	Description
SK-61	Tapered needle
SK-62	Chisel
SK-63	φ2mm spade
SK-64	Chisel
SK-65	Hot blow tip
SK-66	Hot blow tip
SK-67	Hot knife
SK-68	Ceramic unit
SK-89	Cleaning sponge

●Multi-Holder is not saleable separately.

SS-08



SKA-60 Contents

Body(SK-61 solder tip)

Hot blow tip

Multi-holder

Protective cap

- Ideal for extracting 8~42 pins ICs in one single operation.
- Squeeze clip and hold ICs tightly.
- Overall Length: 125mm



SK-66

SS-10 PC BOARD CONNECTOR EXTRACTOR

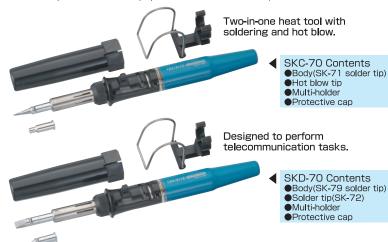
- Ideal for insertion or extraction of housing connectors on the PC boards.
- Holds PC board connectors with accurately machined tip, picking them uprightly and smoothly without a cut of wire or deformity.
- Accurate tip design to insert or extract PCB connectors (straight type & right-angle type) mounted on dense PCB
- ●Overall Length: 112mm



SK-70SERIES

Multi-holder creates new field of cordless soldering iron!

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



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

KOTELYZER KOTELYZER

- SKA-70 Contents

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

■Kotelyzer(SK-70)Specifications

System		Gas Catalyst Reaction System	
Themal	Soldering Iron	200°C~500°C (Equivalent to 20~80W electric soldering iron)	
Output	Hot Blow	650℃ MAX	
Gas Container Capa.		28ml	
Operation Time for One Gas Fill		Abt 4 hours (Lever position : 2)	
O.A.Length		281mm including cap	
Weight		110g	

Three function of Multi-holder assures safe and wide task field!



Hanging from cable



Magnetic attachment



Multi-Holder is useable for both SK-60 series and SK-70 series.

SK-70SERIES

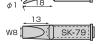












Gas Catalyst Reaction System

Pressure Gas Burning System (Torch) 200°C~500°C (Equivalent to

20~60W electric soldering iron)

650℃ MAX

1300°C MAX

12ml about 60 min.

197mm Cap Included 74g

(Lever position: Middle)











REPLACEMENT PARTS



Cleaning sponge





Ceramic unit



Item No.	Description
SK-71	Tapered needle
SK-72	Chisel
SK-73	φ2mm spade
SK-74	φ3mm spade
SK-75	Tapered needle
SK-76	φ2mm spade
SK-77	Tapered pyramid
SK-78	Offset tapered needle
SK-79	High powered chisel
SK-80	High powered round head needle
SK-81	High powered long taper chisel
SK-82	Hot blow tip
SK-83	Hot blow tip
SK-84	Hot blow tip
SK-85	Hook fitting
SK-88	Protective cap
SK-89	Cleaning sponge
SK-93	Heat shrink W-22
SK-94	Heat shrink W-18
SK-96	Ceramic unit

SKM-40.SK-42~47

- Advanced and streamlined design
- ●Hot blow & powerful torch
- Improved heat-generating structure of metal catalyst

■Specifications

System

Operation Time for One Gas Fill

O.A.Length

Weight

Thermal Output

Soldering Iron

Hot Blow

Torch Gas Container Capa

- Come with cleaner stand & solder
- Capable of continuous use in one hour



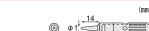
Soldering Iron

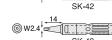
■Hot Blow

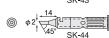


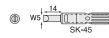
■Torch

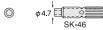
HANDY KOTELYZER













Item No.	Description
SK-42	Tapered Needle
SK-43	Chisel
SK-44	φ2mm Spade
SK-45	Chisel
SK-46	Hot blow tip
SK-47	Ejector Unit

SK-90-95



Please use our original gas for refill. (Butane liquefied odorless gas for industry



265ml



480ml



SS-15 2P-3P PLUG CONVERTER

Convertes 3P Plug with ground wire into 2P.



ZC-70·71

FLUX/DISPENSER

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) 1 pce, each
- CLEANING PIN 1pce, each

■ZC-71

- FLUX DISPENSER (BOTTLE)
- NEEDLE (Hole diam. 0.25/0.5mm) 1 pce. 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.
- 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.

Soldering Tool

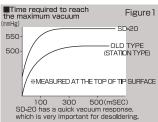


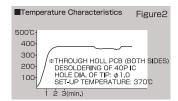
DESTINATIONS ARE LIMITED FOR EXPORT

INDICATOR LIGHT

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







■REPLACEMENT PARTS

Item No.	DESCRIPTION
SD-61	TIP φ0.8
SD-62	TIP φ 1.0
SD-63	TIP φ1.5
SD-87	TAPERING SLIM TIP \$\phi\$ 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





SD-60



● 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

SS-20 **NAME OF TAND**

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

Holds any soldering iron up to 13mm diam.

• 700g massive base stand creates high stability on bench.

Dimensions:80Wx140Hx90D (mm)







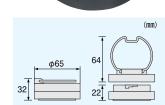
SS-05

- Glass-filled nylon resin (Housing) featuring heat resistance of 130°C
- O-ring creates airtight condition to keep sponge moist.
- Comes with 2 pcs. of cleaning sponges of different density (blue & yellow)
- Easy to open the lid owing to sliding-lock structure
- Weight: 75g









TIP CLEANER

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

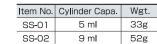
- •Teflon tip : ϕ 2.2mm (Int.)
- •Ideal for desoldering work at dense spot on PCB
- ●Body: *ϕ* 14 x 170mm



SS-02

- ●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





SOLDER SUCKER



Elastic and heat-resistant nozzle can stick to soldering iron on board closely and suck up solder powerfully with less residue.

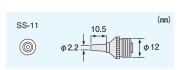


Plunger is within easy reach of

It is ideal for one-hand operation in continuous work.

SS-11







SS-16 REPLACEMENT SILICONE TUBES

- φ2 x 50mm 2 pcs./set
- Cut desired length of tube freely.
- Use only for SS-02



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
- 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/		3×10 ¹³	0.6	5.6
SWS-08		1.7% Noncleaning 1 flux	1×10 ⁵	(Normal temp.)	0.8	4.4
SWS-10				5×10 ¹²	1.0	5.5
SWS-12				(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 $\Omega \cdot \text{cm}$	Insulation resistance Ω	Wire diam. (mm)	Wire length. (m)
SWA-06		0.70/		2×10 ¹³	0.6	5.6
SWA-08	Sn60/Pb40	2.7% Noncleaning	6×10 ⁴	(Normal temp.)	0.8	4.4
SWA-10	183~190℃	flux	0 10	2×10 ¹²	1.0	5.5
SWA-12		Hux		(Higher humidity)	1.2	4.6

SWS-56~82 SUPERIOT RMA SOLDER

SWA-56~82

SUPERIOT RA SOLDER



SWS-58

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



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

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



SOLDER WICK



For desoldering highly dense SMD

SWU-02 1.5mm×1.5m



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



For use at large solder lugs

SWU-06 5.6mm×1.5m

SW-11~53 **SOLDER**

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	1.0	20
SW-31		150
SW-32		500
SW-33		1000
SW-41		150
SW-42	1.2	500
SW-43		1000
SW-51	1.6	150
SW-52		500
SW-53		1000

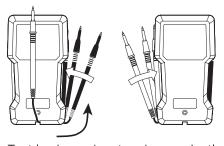
SD-10

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



DIGITAL MULTIMETER



Test leads can be stored conveniently.

Operating principle	Dual integration
Display	LCD, 3999 Counts
Range switch	Auto range
Auto power off	Approx. 30 minutes (can be disabled)
Sampling	3 times / sec.
Operating	0°C to 40°C less than 80% RH
temperature	(without condensation)
Storage	-10℃ to 60℃ less than 70% RH
temperature	(without condensation)
Power	CR2032(3V) lithium battery x 1
Battery life	Approx. 120 hours
Dimensions	70(W) x 127(H) x 12.5(D)mm
and weight	Approx. 101g (incl. battery)
Lead length	Approx. 70cm
Standard	IEC61010-1 CATI 600V, CATII 300V
Accessories	Operation manual, Soft case

Function	Range	Resolution	Accuracy
	4V	0.001V	
DCV	40V	0.01V	±(1.0%+3dgt)
DCV	400V	0.1V	1 (1.0%+3ugt)
	600V	1V	
	4V	0.001V	
ACV	40V	0.01V	+(2,0%+Edg+)
ACV	400V	0.1V	±(2.0%+5dgt)
	600V	1V	
	400Ω	0.1Ω	
	4kΩ	0.001kΩ	
Resistance	40kΩ	0.01kΩ	±(2.0%+5dgt)
nesistance	400kΩ	0.1kΩ	± (2.0%+5ugt
	4ΜΩ	0.001ΜΩ	
	40ΜΩ	0.01ΜΩ	
	5Hz	0.001Hz	
	50Hz	0.01Hz	
Frequency	500Hz	0.1Hz	±(0.5%+5dgt)
rrequericy	5kHz	0.001kHz	± (0.5 /0 50gt/
	50kHz	0.01kHz	
	100kHz	0.1kHz	
	50nF	0.01nF	
	500nF	0.1nF	
Capacitance	5uF	0.001uF	\pm (5.0%+5dgt)
	50uF	0.01uF	
	100uF	0.1uF	

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

SL-50~53

- SL-50
- ●10x/20mm diam.
- ●83mm length
- ●50mm (case)



SL-51

- ●8x/25mm dia.&
- 15x/13mm dia.
- ●150mm length ●84mm (case)



SL-52

- ●Combination of 3x, 4x & 5x lens for max. 10x magnification
- ●19mm diam. lens
- ●83mm length



SL-53

Sharp and very distinct images with no color distortion

POCKET LOUPE

- Ideal for jewelry appraisal
- ●18x/17mm diam.
- ●63mm length



SL-55~57

INSPECTION LOUPE

SL-12



- Inspection loupe equipped with crosshairs
- Wide type light-through cylinder for bright and clear view





Focus adjustment by sliding lens sleeve



- ●10mm diam. view
- ●Scale L



●15x

- ●6mm diam. view
- Scale S



●22x

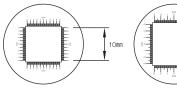
- ●4mm diam. view
- Scale S



- ●x10 Glass Lens
- ●Lens diameter : 30mm
- ●Crosshairs 0.1 mm x 240
- ●Ext. Size: dia.38 x 50(H) ●with carrying pouch



BUILT-IN SCALE



L: 0.2mm/scale

S: 0.1mm/scale	

Item No.	SL-50	SL-51	SL-52	SL-53	SL-12	SL-55	SL-56	SL-57
Magnification	x10	x8 & x15	x3, 4 & 5	x18	x10	x10	x15	x22
Lens Material	Glass	Glass	White Glass	White Glass	White Glass	White Glass	White Glass	White Glass
Lens Structure	1+1	1+1	single	5-fold	1+1	1+1	1+1	1+1

- ½ 1+1 Structure: 1 pce of eveniece 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-64

- x 3.5 Magnification acrylic lens
- ●Lens diameter: 40mm
- •Foldable arm, flexible design
- Magnet attachment
- with carrying case



Portable magnifier



Attachment to a crimp tool



Self-standing for handsfree



Collapsible to fit carrying case



SL-01~03·11



SL-11

- ●Anti-magnetic stainless steel (AISI304) frame ideal for work on electronic parts and devices
- ●21mm diam. adjustable all-angle ball joint magnifying mirror
- •2-sectioned telescopic rod (Min. 150mm - Max. 215mm) Compact body and thin head (frame) for inspection even at a narrow space



Telescopic rod extends from 192 to 540mm in length

with pocket clip



SL-03

SI -02

●35mm diam. adjustable all-angle ball joint magnifying mirror (Concave)

●35mm diam. adjustable all-angle ball joint mirror

 Telescopic rod extends from 265 to 740mm in length

SL-22

included



LED LIGHT LOUPE

Flexible arm

NSPECTION MIRROR

SL-04 · 07

Top Loupe

SL-07

- •x 2.5 φ90mm lens
- 175mm Flexible shaft allows easy positioning.









SL-71

FLASHLIGHT LOUPE

Magnet base

Light beam illuminates magnified area.

LED(16bulbs)

●2x/95mm diam. Acrylic lens with x4 bifocal lens built-in

 $\phi 25 \text{mm} (\times 4)$

●Long-life and bright LED (16 bulbs) •DC power (AA battery x 4 pcs.)

●AC adapter (Input voltage 100-240V)

*Battery is not included.

●310mm Flexible arm for easy

Desk clamp (Max. opening) 65mm. Depth 58mm)

Magnet base stand for

handsfree work

positioning

- ●10X, 30mm diam.
- 2 x C-cell battery adapted ●0.A. length: 177mm



Built-in 20mm scale

HEAD LOUPE

SL-72

SL-23

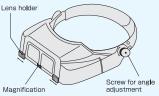
MASS UTILITY LOUPE

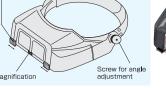
- ●3X 65mm diam, lens consists of aberration-free white lens.
- Versatile use with chrome-plated frame and wooden shaft.
- ●O.A. length: 175mm



SL-80~83/85~88

- Suitable for inspection/repair of electronic and precise instruments
- ■Well-fitted head band with velcro tape
- Usable even while wearing glasses.





■Head Ioune

	loupo
Item No.	Magnification
SL-80	1.8
SL-81	2.3
SL-82	2.7
SI -83	35

■Replacement lens

Item No.	Magnification	
SL-85	1.8	
SL-86	2.3	
SL-87	2.7	
CI 00	25	

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

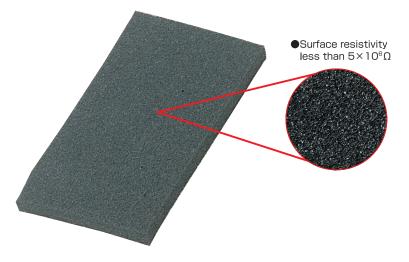
ESD Products and Chemicals



ZC-01·02

- Conductive urethane foam with high density in 10mm thickness.
- Protects CMOS IC and other static-sensitive components during storage, in transit and in hand.
- Material: Polyethylene







CONDUCTIVE FOAM

Item No.	Size(mm)
ZC-01	075×130×10
ZC-02	100×290×10

None WRIST STRAP

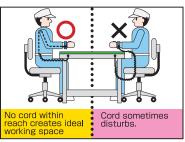
ZC-50

- Conveniently-designed earth cord to improve precise work efficiently
- Curving-shaped & wide plastic body (30x20mm) featuring higher conductivity around wrist
- Silver filaments in elastic band ideal for high conductivity & anti-metallic allergy

■Applications

Assembly or repair of electronics and precise instrument for anti-static electricity









■Specifications :

- Adjustable type wrist band
- Built-in 1MΩ resistor for safety
- Alligator clip included
- Polyester elastic band woven with silver filaments

If anyone who is charged with static electricity through clothes touches IC's and electronic components, he discharges electricity through his fingers and gives a damage to IC's and electronic components. Wrist Strap can eliminate static electricity through his wrist to prevent them from being damaged.

SERVICE KIT

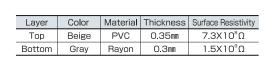
ZC-80

● Mat size: 900×600mm (Thickness 0.7mm)

Contents : Wrist strap with cord (1MΩ)



Earth cord







Rayon backing with stud



ZC-44~49 STATIC CONDUCTIVE GLOVES

- Surface resistivity: $10^5 \sim 10^6 \Omega$ sq.(Finger) $10^7 \Omega$ sq.(Palm)
- Ideal 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









ZC-51~56

MANTI-STATIC GLOVES

- 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

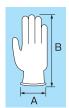






■Fingertip Coating (mm)

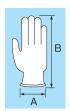
Item No.	Size	A×B
ZC-44	S	72×185
ZC-45	М	83×190
ZC-46	L	85×200



■Palm Coating (m		
Item No.	Size	A×B
ZC-47	S	80×210
ZC-48	M	85×220
ZC-49	L	90×230

Fingertip Coating (mm)

Item No.	Size	A×B
ZC-51	S	75×190
ZC-52	М	88×200
ZC-53	L	89×215



■Palm Coating (mr			g (mm)
	Item No.	Size	A×B
	ZC-54	S	77×210
	ZC-55	М	90×220
	ZC-56	L	95×230
	ZC-55	М	90×22C

ZC-38~43

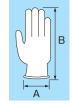
DUST-FREE GLOVES

- 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	M	90×190
ZC-40	L	90×200



Paim 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



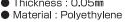
Item No. | Size(mm) | Package ZC-82 100×150 100pcs. ZC-84 200×300 100pcs. ZC-86 300×450 100pcs.

ZC-92·94·96



Surface resistivity: 10¹¹Ω or less

Color : Blue Transparent Thickness: 0.05mm







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

ZCM-01~04

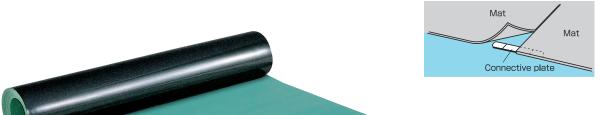
• Static-Dissipative mat maintains an ESD-Safe working surface.

• Anti-Fatigue rubber material that provides cushioning comfort.

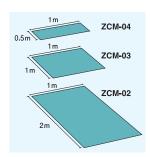
Available in pre-cut mats or rolls.

Usage Put ZC-62 on the reverse of the mat for grounding. Use ZC-63 in connection of mat.

SALES CONDUCTIVE COLORED MAT



ZCM-01



Surface resistivity Top Layer (Green): $10^8 \sim 10^{10} \Omega$ Bottom Layer (Black): $10^3 \sim 10^5 \Omega$

Item No.	Size
ZCM-01	1m×10m×2mm
ZCM-02	1m×2m×2mm
ZCM-03	1m×1m×2mm
ZCM-04	1m×0.5m×2m

SCHOOL CORD

ZC-62

● For ZCM-01~04 Size: Cord.....2m Plate...15cm×2cm



ZC-63

● For ZCM-01~04 Oontents: 10pcs. Size: 15cm×2cm

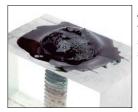




Amazing - How quickly it cleans rust off!

- 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.

How it works on rusty screws



1. Penetration

The liquid penetrates through small gaps and reaches the screw's thread in seconds!



2. Rapid Action

It instantly reacts on the rust and turns purple!



3. Screw Removal

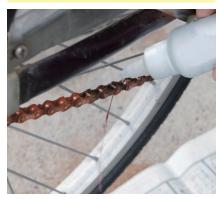
Utilize Screw Removal Pliers to loosen the treated screw with sure-gripping jaws.







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

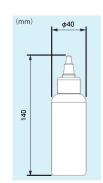






Item No.	рH	Capacity	Bottle size
ZC-28	Neutral	100ml	φ40 x H140mm





None OILER

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.
- 2 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.

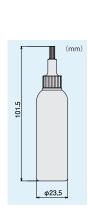






Lubrication







ITEM No.			
D 4 O 3	CODE No.	ITEM	PAGE
DA-01 DA-02	1001	Alignment Screwdriver	49 49
DA-02	1002 Discon.	Alignment Screwdriver Alignment Screwdriver	¥9 ×
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
DA-53	1053	Ceramic Alignment Screwdriver	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
DA-81	1081	Ceramic Alignment Screwdriver	49
DA-82	1082	Ceramic Alignment Screwdriver	49
DA-83 DA-84	1083	Ceramic Alignment Screwdriver	49 49
DA-84 DA-85	1084	Ceramic Alignment Screwdriver Ceramic Alignment Screwdriver	49
DA-85	1085	Ceramic Alignment Screwdriver	49
DA-80	1087	Ceramic Alignment Screwdriver	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
DB-20	1320	Ball Point Driver	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	\geq
DBZ-50B	1448	Handle Grip for DBZ	8
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
DBZ-62	1471	Optional Bit for DBZ-60G	9
DBZ-63	1472	Optional Bit for DBZ-60G Optional Bit for DBZ-60G	9
DD7.64	1 470	JUDITION DIL TUI DEZ-000	
DBZ-64	1473		9
DBZ-65	1474	Optional Bit for DBZ-60G	9
DBZ-65 DG-01	1474 1101	Optional Bit for DBZ-60G Pro Grip Driver	9 38
DBZ-65 DG-01 DG-02	1474 1101 1102	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver	9 38 38
DBZ-65 DG-01 DG-02 DG-03	1474 1101 1102 1103	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver	9 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04	1474 1101 1102 1103 1104	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver	9 38 38
DBZ-65 DG-01 DG-02 DG-03	1474 1101 1102 1103	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver	9 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05	1474 1101 1102 1103 1104 1105	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver	9 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08	1474 1101 1102 1103 1104 1105 1108	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver	9 38 38 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09	1474 1101 1102 1103 1104 1105 1108 1109	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver	9 38 38 38 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11	1474 1101 1102 1103 1104 1105 1108 1109	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver	9 38 38 38 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114	Optional Bit for DBZ-60G Pro Grip Driver Cushion Driver Master Grip Driver Extra Long Grip Driver Extra Long Grip Driver	9 38 38 38 38 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver	9 38 38 38 38 38 38 38 38 38 38
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21 DG-22	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver Mini Soft Driver	9 38 38 38 38 38 38 38 38 38 38 39 39
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21 DG-22 DG-23	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121 1122 1123	Optional Bit for DBZ-60G Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver Mini Soft Driver Mini Soft Driver Mini Soft Driver	9 38 38 38 38 38 38 38 38 38 39 39
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21 DG-22 DG-23 DG-24	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121 1122 1123 1124	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver	9 38 38 38 38 38 38 38 38 39 39 39
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-22 DG-23 DG-24 DH-15	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121 1122 1123 1124 1515	Optional Bit for DBZ-60G Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver Hex Driver	9 38 38 38 38 38 38 38 38 39 39 39
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21 DG-23 DG-24 DH-15 DH-20	1474 1101 1102 1103 1104 1105 1108 1109 1111 1112 1113 1114 1121 1122 1123 1124 1515	Optional Bit for DBZ-60G Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver Extra Long Grip Driver Extra Long Grip Driver Extra Long Grip Driver Mini Soft Driver Hex Driver Hex Driver	9 38 38 38 38 38 38 38 38 39 39 45 45
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-13 DG-14 DG-21 DG-22 DG-23 DG-23 DG-245 DH-20 DH-25	1474 1101 1102 1103 1104 1105 1109 1111 1112 1113 1114 1121 1122 1123 1124 1515 1520	Optional Bit for DBZ-60G Pro Grip Driver Pro Grip Driver Pro Grip Driver Pro Grip Driver Cushion Driver Master Grip Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver Hex Driver Hex Driver Hex Driver	9 38 38 38 38 38 38 38 38 39 39 45 45
DBZ-65 DG-01 DG-02 DG-03 DG-04 DG-05 DG-08 DG-09 DG-11 DG-12 DG-12 DG-21 DG-22 DG-23 DG-24 DH-15 DH-25 DH-25 DH-30	1474 1101 1102 1103 1104 1105 1109 1111 1112 1113 1114 1121 1123 1124 1515 1520 1525	Optional Bit for DBZ-60G Pro Grip Driver Cushion Driver Master Grip Driver Extra Long Grip Driver Mini Soft Driver Hex Driver Hex Driver Hex Driver Hex Driver Hex Driver	9 38 38 38 38 38 38 38 39 39 45 45 45
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SL-22 SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-66	5823 5850 5851 5852 5853 5855 5856 5857 Discon. Discon. 5896 Discon. Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspe	78 78 78 78 78 78 78 78 78
SL-22 SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-66 SL-65	5823 5850 5851 5852 5853 5856 5856 5857 Discon. Discon. 5896 Discon. Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspe	78 78 78 78 78 78 78 78 78 78
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TS-21	Discon.	Spanner(Inclined Head)	\Leftrightarrow
TS-22	Discon.	Spanner(Inclined Head)	\Leftrightarrow
TS-23	Discon.		\Leftrightarrow
TS-24	Discon.	Spanner(Inclined Head)	\Leftrightarrow
TS-25	Discon.	Spanner(Inclined Head)	\Leftrightarrow
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