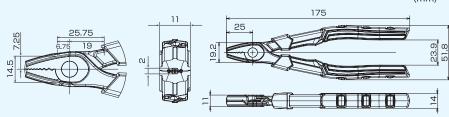
SCREW REMOVAL Screw Removal Pliers, Rapid Screw Extractor, etc.	2	SCREW REMOVAL
SCISSORS Combination Scissors, Cable Shears, etc.	10	SCISSORS
NIPPERS Micro Nippers, Parallel Nippers, Diagonal Nippers, Plastic Nippers, etc.	15	NIPPERS
PLIERS Miniature Pliers, Long Nose Pliers, Combination Pliers, E-Ring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

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



Screw Removal



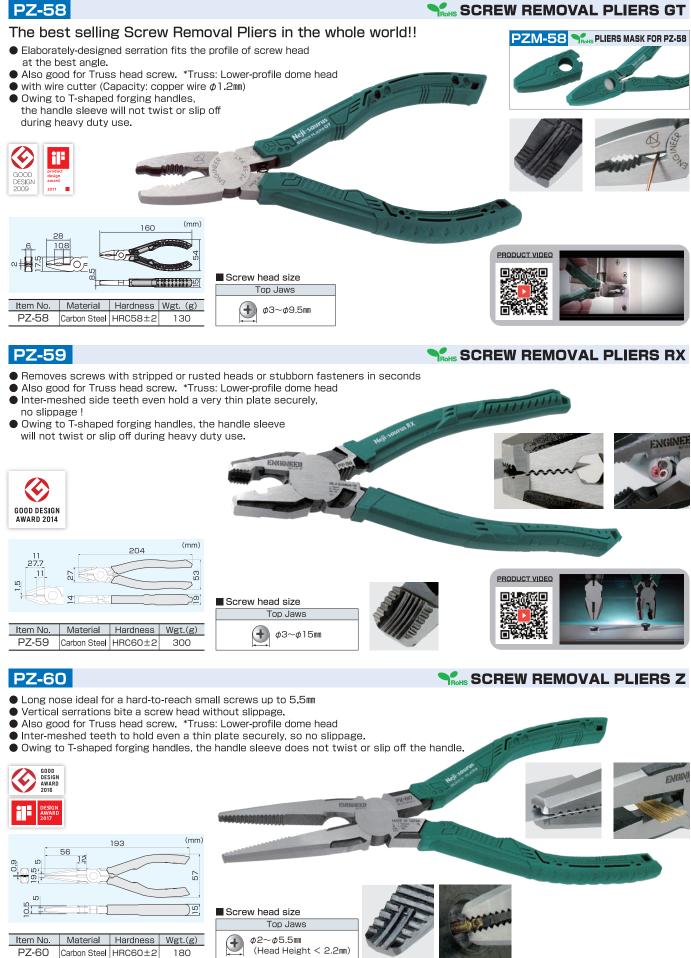






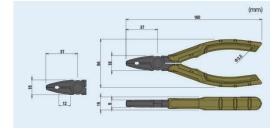








PZ-32 SCREW REMOVAL PLIERS JS Vertical serrations bite and grip a screw head without slippage. Also good for Truss head screw. *Truss: Lower-profile dome head Serrated side teeth lined consecutively, inter-meshed with each other Black oxide finish to increase rust-resistance! Owing to T-shaped forging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



Material

Handles:TPR

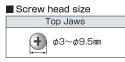
Body:Carbon Steel HRC60±2

Inter-m	neshed,
never	let go.

Strap hole goes through the steel handle.







PZ-64.65

Size

160mm

Item No.

PZ-32

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

Hardness Cutting Capacity

φ1.2mm

(copper wire)

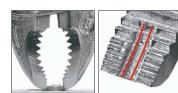
Wgt.

125g

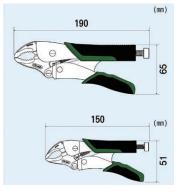
Safety Hole

φ3.5mm

Rubber handles provide you with a comfortable grip.







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

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

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

SCREW REMOVAL LOCKING PLIERS



SCREW EMERGENCY TOOL KIT

SCREW REMOVAL

KS-34

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

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





Elastic band

Compact and lightweight!

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

PDS-01

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



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

SCREW REMOVAL TOOL KIT

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

PGT-03 GT PACK(PAULOWNIA BOX)

The perfect gift for tool lovers!

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



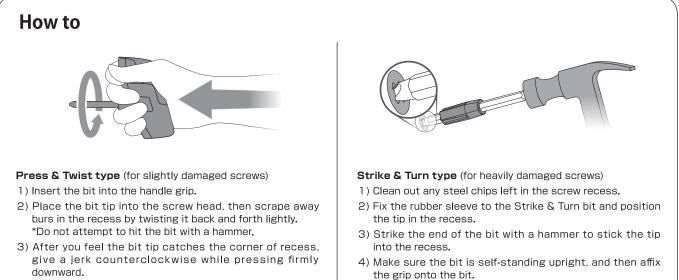
Contents	6			
Item No.	Description			
PZ-58 Screw Removal Pliers GT				
PZM-58	Pliers Mask for PZ-58			
PH-55 Combination Scissors GT		ors GT		
Item No.	Case Size	Wgt		
PGT-03	252×132×32mm 372			



08



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



*Do not hit the grip with a hammer

5)Give a jerk counterclockwise while pressing firmly downward.

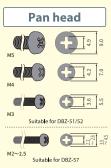
DBZ-51~65

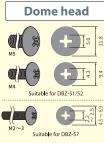
New REPLACEMENT AND OPTIONAL BITS FOR DBZ-60G

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

Screw ty

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





•

Counter sunk

Button head

(Unit in mm)

Cap bo**l**t





PH-57•PH-57R•PH-57G•PH-57Y

ENGINEER

U-shaped blade

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

Micro-serrations

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

etc.

Coaxial cable (Conductor ¢1.0mm)

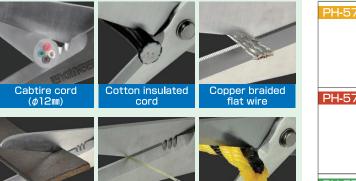
PP Plate

1.2mm thick

TPR cushioned handles

Comfort gripping

Rope *\$*10mm



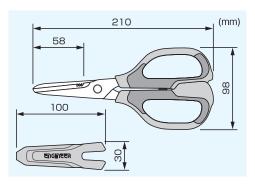
Kevlar Aramid fiber

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

Leather belt

5mm thick

Cutting capacity (Reference only)



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

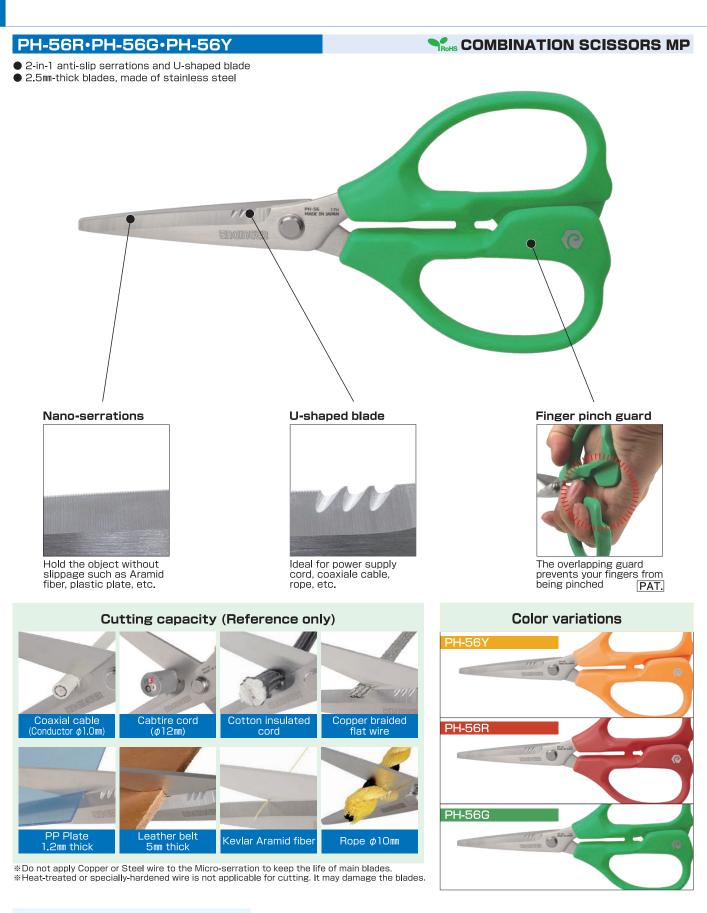
Finger pinch guard

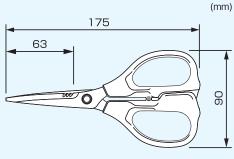


The overlapping guard prevents your fingers from being pinched **PAT**.

Color variations ENGINEER PH-57R







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

Second Scissors 2-in-1 Unique cutting blade Noto

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



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

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

COMBINATION SCISSORS GT

PH-55

Micro-serration

NEER PH-55 MADE IN JA

Holds the object

without slipping

Flat Blade

of paper

PH-50



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

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

SCISSORS

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

PK-50•51

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





PK-51



Foremost Blades Wire cutter suitable for copper wires

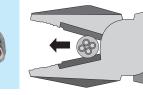
Main Blade (Rearmost) Curved blades suitable for insulated cables, make a fine cut surface. Flat cables, Coaxial cables, Power supply cords, LAN cables, etc. are also applicable.

Cable Shears



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





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

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

Comparison of Cut Surface









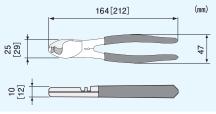


Flat Cable



Coaxial Cable





Nippers



NK-15

NK-16

NK-25

NK-26

NK-36

NN-45

NN-46

NN-56

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Slant Edge Nippers

Slant Edge Nippers

Slant Edge Nippers

125

150

125

150

150

125

150

150

2.6

З

2.6

З

3.2

2

26

2.6

2

2

2

2

2

2

2



1.5

1.9

15

1.9

2

1.2

1.4

1.4

18

18

18

18

18

19

19

19

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm

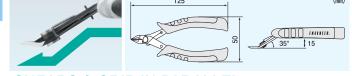
Vinvl isulated cable Ø1.6mm

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm



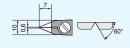
- Cutting capacity : Copper wire ϕ 0.6mm Light weight of 45g only



SHEARS & GRIP IN PARALLEL



ENGINEER NZ-13





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

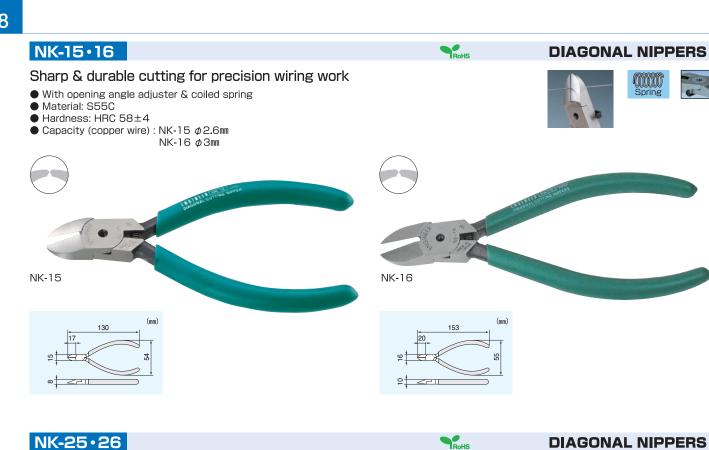
99



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

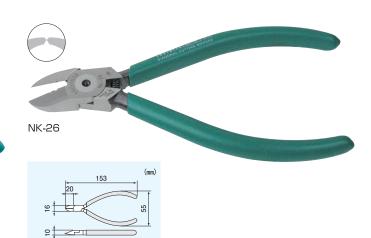
17

NIPPERS



Precision cutter with wire stripper

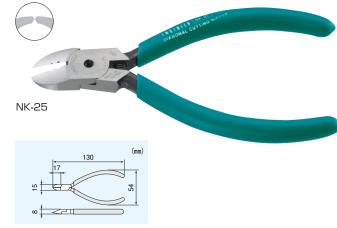
- With opening angle adjuster & coiled spring
- Stripping holes: ϕ 1.2 & 1.6mm
- Material: S55C
- Hardness: HRC 58±4
- Capacity (copper wire) : NK-25 ϕ 2.6mm NK-26 Ø3mm



HEAVY DUTY DIAGONAL NIPPERS

Spring

ശ്ര



NK-36

Heavy-duty durable cutter

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

155

21

; | Zei

5



RoHS

NN-45•46 SLANT EDGE NIPPERS

Professional type for sharp & easy use

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

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

A STALLA

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

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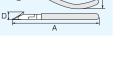


(mm)

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



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



Tapered and slender head

for work in restricted area

With side stopper & coiled spring

Ideal for cutting and trimming various gates of

• ESD-Safe handles made of Elastomer (TPR)

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

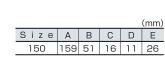
2m

cię

injection molding

Material: S58C Hardness: HRC 59±3

NP-05



Spr

NP-03.04

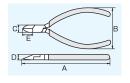
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Spring

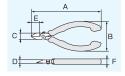
- Ideal for cutting plastic mold gates & burns
- With opening angle adjuster & coiled spring
- Material: S58C
- Hardness: HRC 58±4



	I RELATED INTERN
NP-04	



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



NP-05

Ja:	100	
6	7	





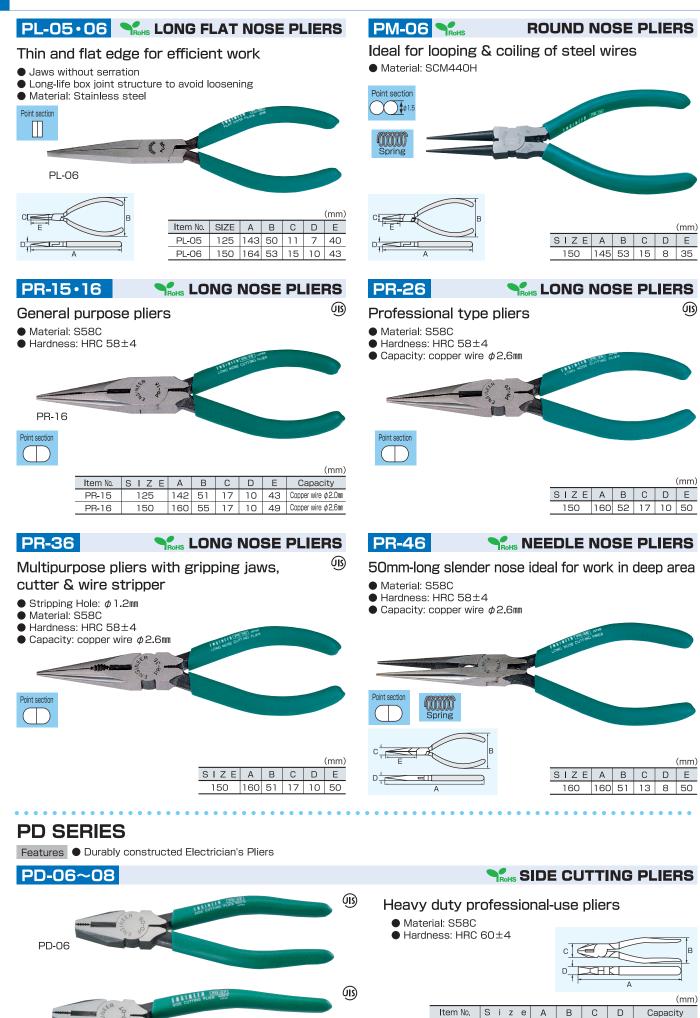
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PS-04

125

132 50 11 8 29 11

21



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



23

PC & PW SERIES

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



Crimping and Stripping

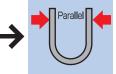




1. Measure the width of conductor barrel with a caliper while both barrel wings are in parallel.



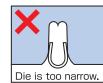


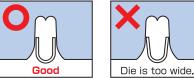


Wings opened

Measure the width

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





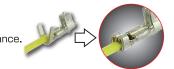
For example: 1.5mm measured → Select 1.6mm dies.

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

25

CONNECTOR CRIMPING PLIERS

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



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

PA-20

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

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





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

Specifications

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

PA-21

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



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

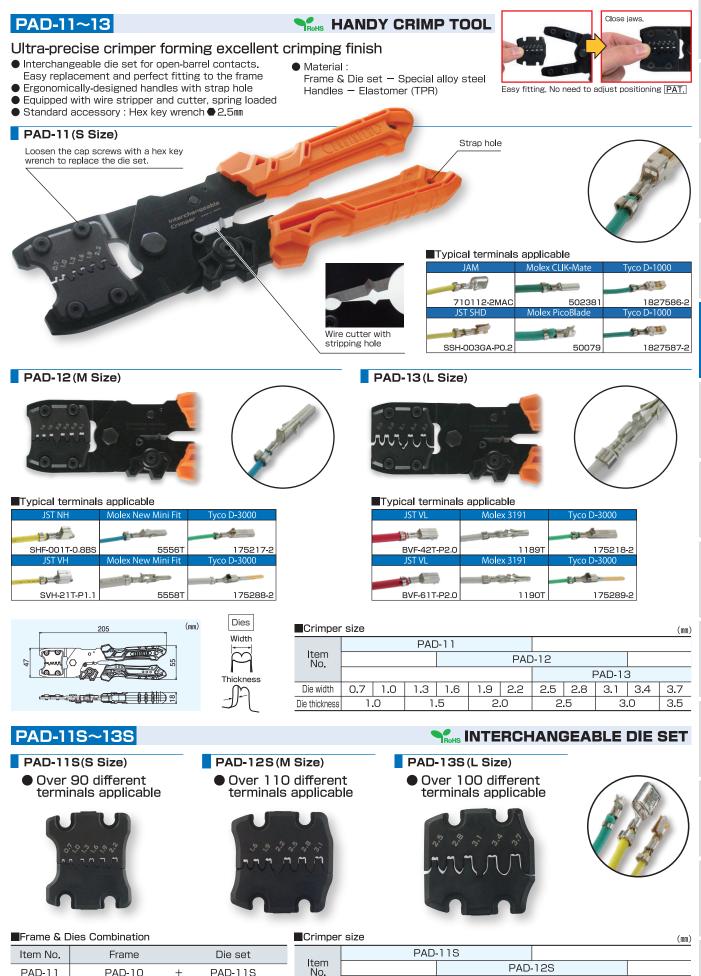
Specifications

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



Long wing type is

PRECISE CRIMPING SERIES - Tool Frame and Die Set



PAD-12

PAD-13

PAD-10

PAD-10

+

+

PAD-12S

PAD-13S

Die width

Die thickness

0.7

1.0

1.0

1.3 1.6

1.5

1.9 2.2

2.0

2.5

2.5

2.8

27

CRIMPING STRIPPING

ESD CHEMICALS

3.7

3.5

PAD-13S

3.1 3.4

3.0

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

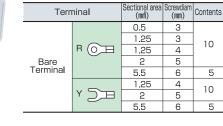
- One-Squeeze operation for easy stripping of applicable flat cables, 12mm width max.
- With stopper for adjustment of stripping length, 2~20mm.
- Applicable sectional area: AWG20~10



Popular crimping terminals and connectors in compact plastic case.

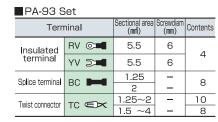
PA-91 Set

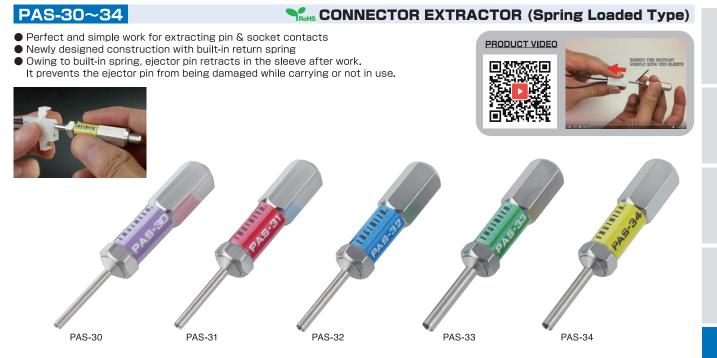






PA-92 S	Set				
Tern	ninal	Sectional area (៣៣)	Contents		
		1.25	3		
	RV 💽	1.25	4		
Insulated		2	5	10	
terminal		1.25	3	10	
	YV DI	1.25	4		
		2	5		





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

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

Reference for extracting typical connectors

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

SS-30~34

Perfect for extracting both pin and socket terminals.

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











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

(Shape sizes)

Sleeve	Ejector
	(Stroke)

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

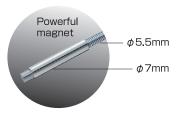
29

RS NIPPERS SCISSO

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



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



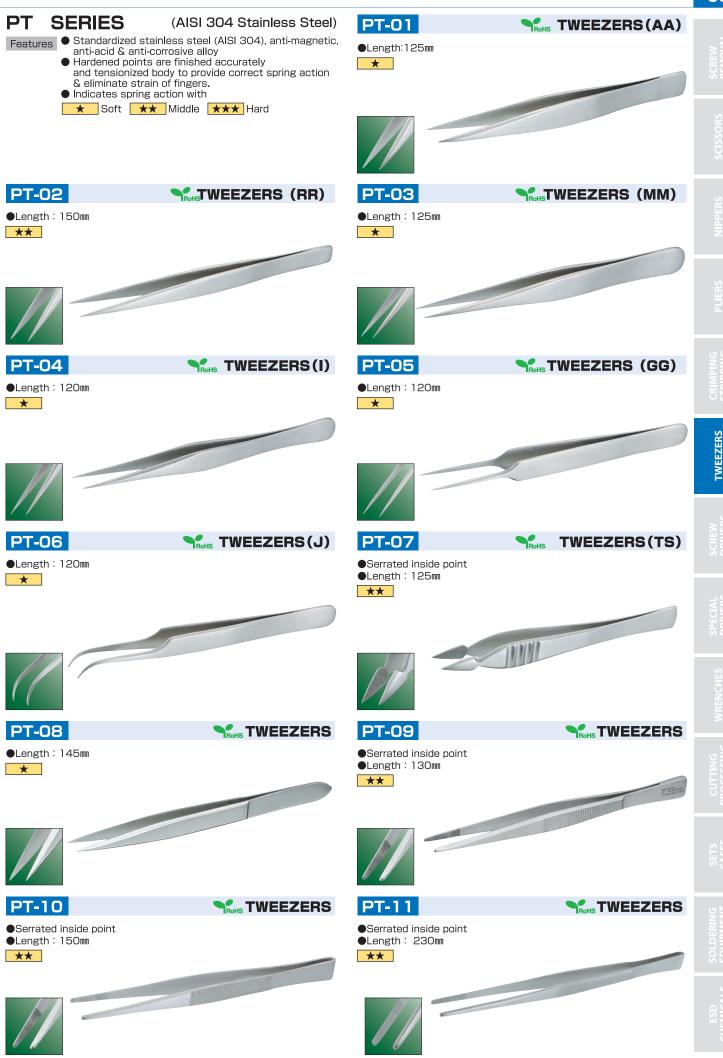
	(mm)
Item No.	O.A. Length
TP-35	410
TP-36	525

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

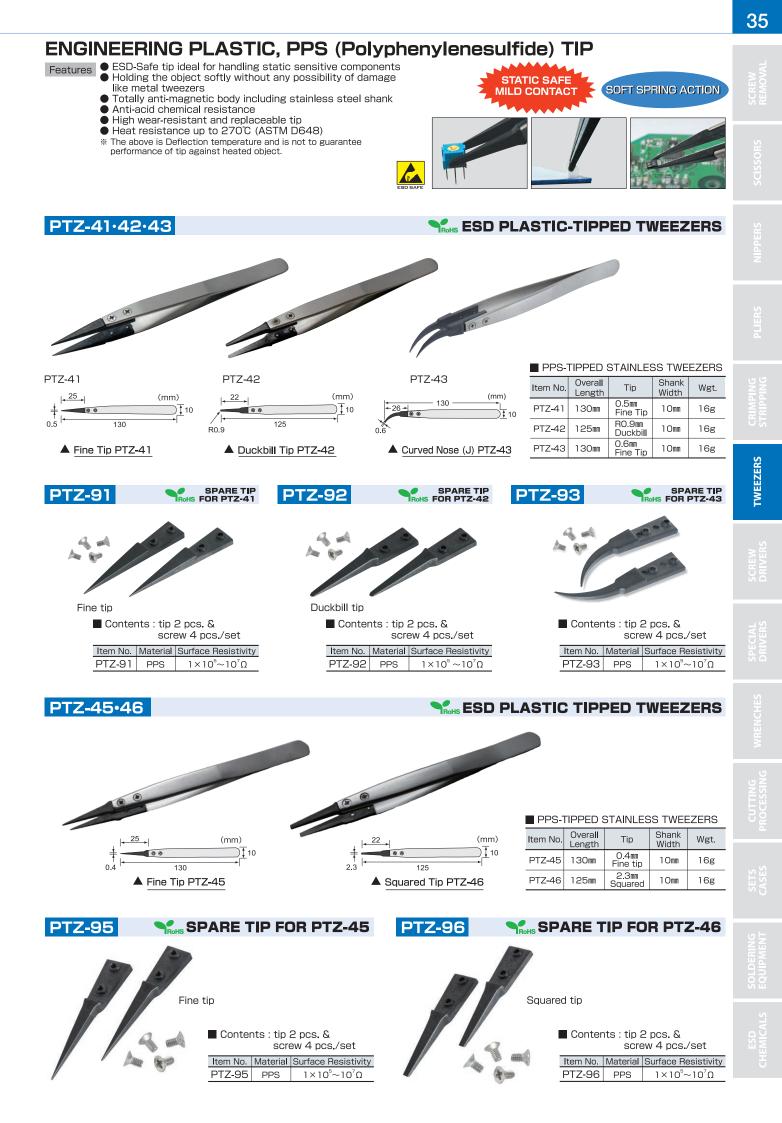
STRIPPING

Tweezers











Screwdrivers



DG-01~04 SRIP DRIVER

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



DG-05

1

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



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

DP-03~64

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



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

(Blade size=width×thickness)

DG-08•09 MASTER GRIP DRIVER

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



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

DG-11~14 STRA LONG GRIP DRIVER

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

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

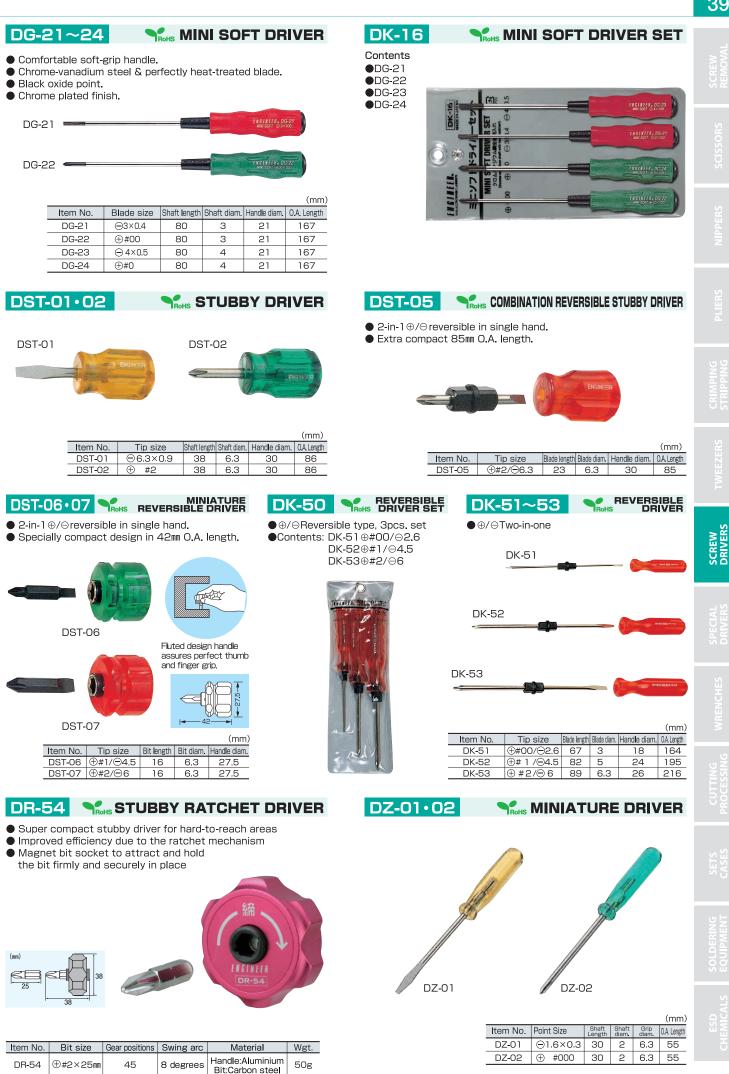
DS-03~64

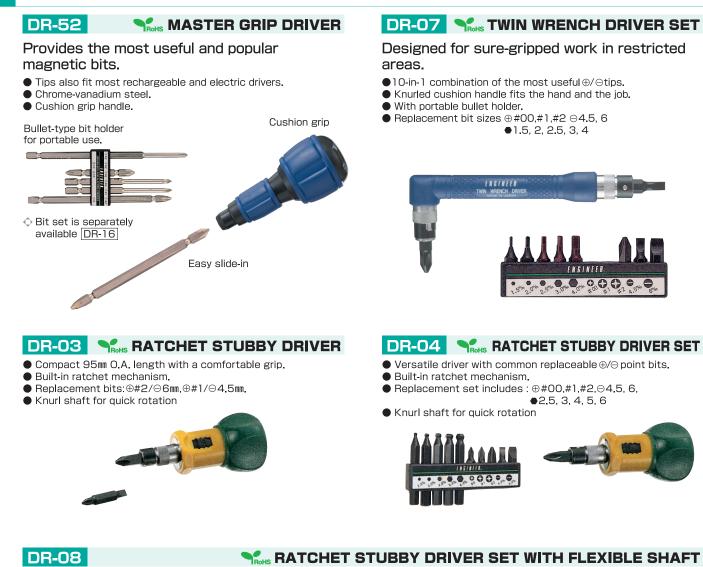
STANDARD DRIVER



DS-34

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





Versatile flexible shaft makes difficult jobs easy

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

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





Bullet holder is clipped to belt or tool panel.

CONTENTS

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

DR-06 STRATCHET DRIVER WITH BIT SET

Excellent for working in close areas!

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



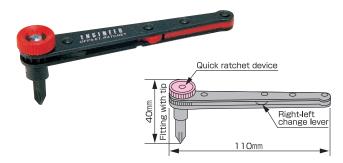


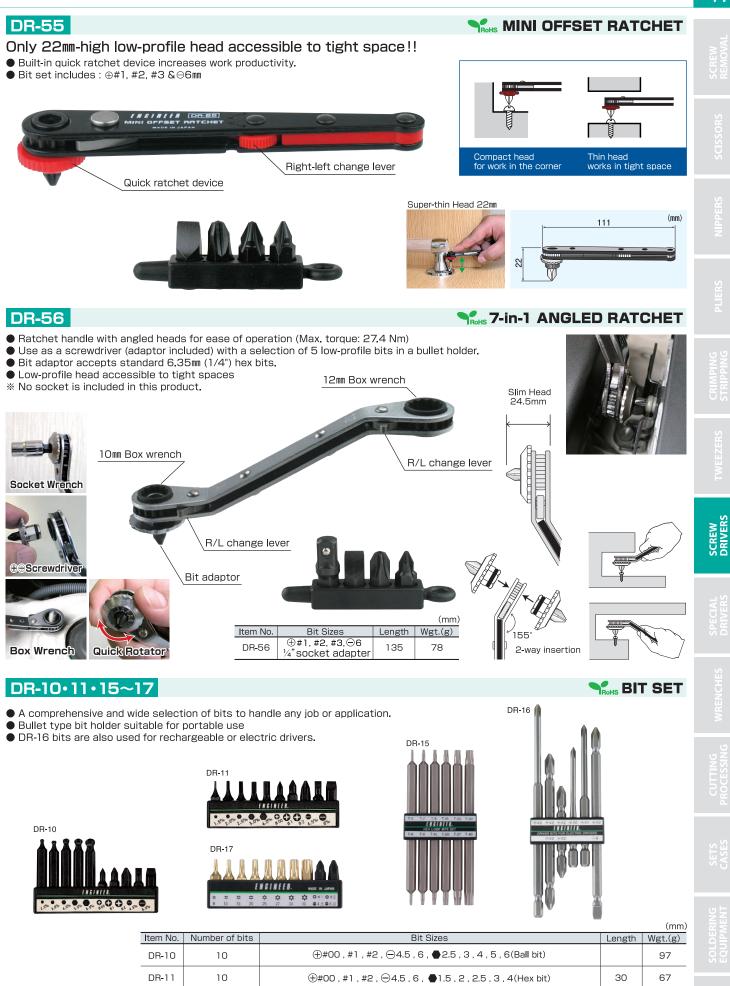
For use at hard-to-reach positions.



DR-05

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





DR-15

DR-16

DR-17

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

Special Drivers



DT/DTC/DTP/DTY SERIES

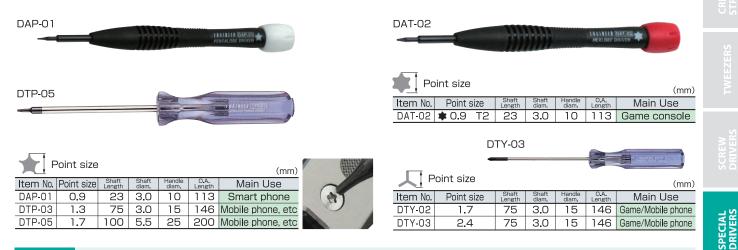
Made for special screws, ideal for maintenance work of cordless phones, cellular phones, etc.



Torx (Hex-lobe) screws

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

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



DR-18

10-in-1 special driver bit set

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



DR-50

Ideal for sure-gripped work in restricted areas.



TWIN WRENCH DRIVER(For Special Screws)

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

BoHS

DT-10

DT-20

Point size

Τ2

TX4

Т4

Τ5

Т6

Т8

Item No.

DT-02 ¥0.9

DTX-04 🗱 1.2

DT-04 \$1.3

DT-05 \$1.4

DT-06 🗘 1.7

DT-08 🛱 2.3

DTX-08 2.0 TX8

DT 10 \$27 T10

DT 15 🛱 3.3 T15

DT-20 🗘 3.8 T20

DT-06

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

diam.

3.0

3.0

3.0

3.0

3.0

5.5

5.5

5.5

Shaft Handle

0.A

146

146

146

146

146

146

146

200

200

200

Set for mobile phone

diam. Lengtl

15

15

15

15

15

15

15

25

25

25

Shaft length

75

75 3.0

75

75

75

75

75 3.0

100

100

100

Bullet type replaceable bit holder.

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

Bit set is separately available DR-17

MOBILE PHONE DRIVER

PPING PLIERS NIPPERS SCISSORS SCREW

(mm)

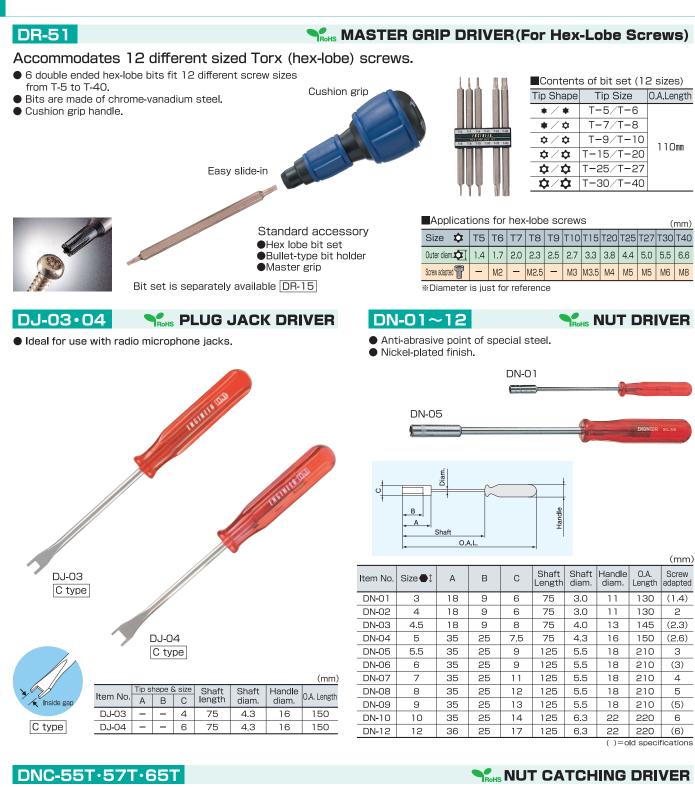
Main Use

Game console

Smart phone/Mobile phone

Smart phone/Mobile phone

Smart phone/Mobile phone

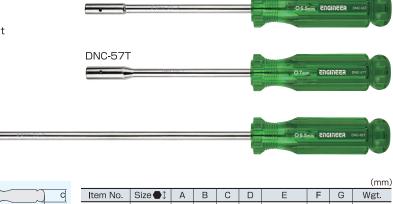


Magnet hold type for easy operation

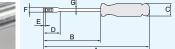
44

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

6



DNC-55T



DNC-65T

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



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

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

45

SPECIAL DRIVERS DK-14

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





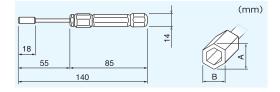
With rotary cap



Slim socket design

Self-standing holder

(r	n	m	٦)

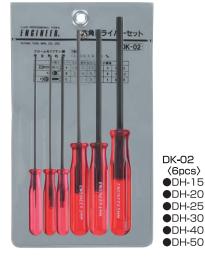


Item No.	Across Flats	Screw Diameter	Ext. Soc	ket Size	14/ert	
item no.	\bigcirc		А	В	Wgt.	
	3	M1.4/M1.5	6.3	5.6		
	4	M2	6.3	5.6		
DK-14	4.5	M2.3	8	7	155g (Holder	
DK-14	5	M2.5/M2.6	8	7	included)	
	5.5	MЗ	9.1	8	,	
	6	M3.5	9.1	8		

DK-01.02

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





Materials

Handle:Cellulose Acetate

Socket:Cr-Mo Shaft:Cr-V

Cap:PP

RoHS	HEX	DRIV	ER	SET

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

DK-03 SALL DRIVER SET

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



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



DK-04

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



Diam. Handle в A Shaft O.A.L

NUT DRIVER SET

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













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

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

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



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

ENGINEER. MADE IN JAPAN

INTERCHANGEABLE DRIVER SET



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

DK-08 MINTERCHANGEABLE DRIVER SET

DK-05P·06P

• Cost-saving package in Plastic blow-mould case

DK-05 & DK-06













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

Contents exactly same as





DA-53~59

Pen type Ceramic Alignment Driver for service and assembly line work

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

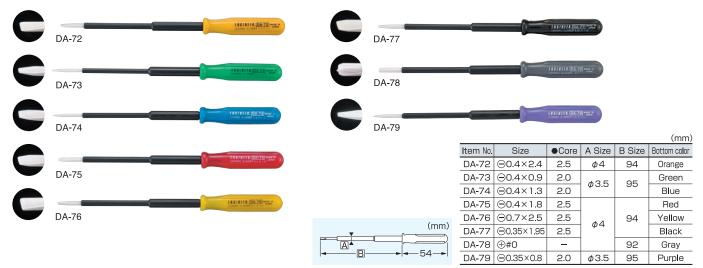


				(mm)
	CRAME ALCREA SCREWBYLER / 0 235-19	Size	Core	Bottom color
DA-54	CERAMIC ALIGNER SCREWORVER / 0 2.8	⊝0.4×0.9	2.0	Green
	DA-54	⊖0.4×1.3	2.0	Blue
	DA-55	⊖0.4×1.8	2.5	Red
DA-55	DA-56	⊝0.7×2.5	2.5	Yellow
	DA-57	⊖0.35×1.95	2.5	Black
	CRAME ALIGNER SOCIETION /- 0.3540.8 DA-58	⊕ #0	-	Gray
DA-56 DA-59	DA-59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

DA-72~79

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

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



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

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

-





SMART MONKEY WRENCH

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

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



TS-04

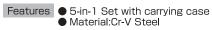
- 8-in-1 Combination spanner set with key chain
- Box-end inclined (30°)
- Thickness: 1.5mm
- Material: Stainless steel



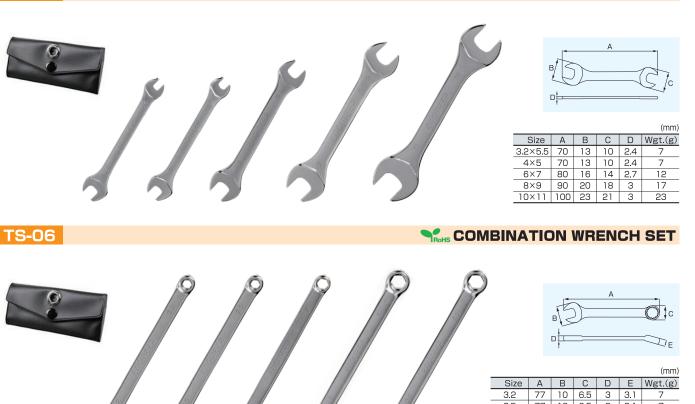


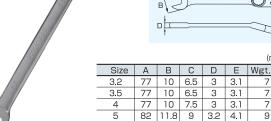
•	This item is individually available. (mm)							
	Item No.	Si	zes	Thick	Length			
	100111110.	Box	Open	THOR	Longar			
	TS-41	4.0	3.5		100			
	TS-42	4.5	4.0		100			
	TS-43	5.0	4.5					
	TS-44	5.5	5.0	1.5	106			
	TS-45	6.0	5.5	1.5				
	TS-46	6.5	6.0					
	TS-47	7.0	6.5		114			
	TS-48	8.0	7.0					

DROP-FORGED WRENCH SET



TS-05





5.5

TS-07

BIT

ъД

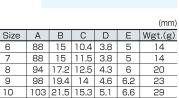
82 11.8 9.5 3.2 4.1

9

C

ΣE





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

2.5 M3

3.0 M4

4.0 M5

5.0

6.0

8.0

M6

M8

M10

M5

М6

M8

M10 M12, M14 M16, M18



 TWH-24
 5/64"(1.98)
 45.5×13.5

 TWH-25
 3/32"(2.38)
 48.5×14.5

CUTTING PROCESSING

TWS-01~05

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

TWS-05



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



TWS-01 · 02 Contents : 16pcs. per set

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



TWS-03 Contents : 20pcs. per set

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



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

SOCKET WRENCH SET

Cutting and Processing

00

GB

TWIST DRILL SET



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



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

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

ドリルセット

NGINEER.

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

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

TD-03~60

TT-01.02

(mm)

TP-20

170

TT-03·10~16

ドリルセット

TDS-03



2203

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

	116 2 (1)
(minimumini)	
	ASE

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

TP-20.23.24

TT-01

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

TAP HANDLE

TT-01

Item No. Capacity Length

M1~6.5

TT-02 M2~6.0 85 x 60

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

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

TT-02



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

∢TT-03

CONTENTS

•Tap, 4pcs(2, 3, 4, 5mm)

MINI DRILL CHUCK/PIN VISE

Tap Handle(TT-02)

TP-23



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

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

TV-01~27



TV-04

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

TV-14

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

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

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



TN-17

Item No.

TN-11

TN-12



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

TN-11~18 SAW BLADES

Blade Thick Notches/

25mm

61

56

535

(mm)

0.24

0.26

TN-01~05

TM-04

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



JEWELLER'S SAW

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

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

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

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

Nominal

Size

#3/0

#2/0

#O

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

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

Item No.

TM-04

TM-05

Scale

15cm

30cm

Applications

Noble metals

58

High performance, Rust-resistant, Black coated files



PRODUCT VIDEO Ξ. Grinding com



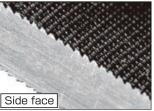
Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.



Sharp edge of teeth



Rust-resistant black coating



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

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

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

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



W240×L240(mm)

W50×L240×H50(mm)

(mm)

(mm)

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

TFS-01.02

NORMAL TYPE



TFS-01

TFS-02 (TF-06~10)

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

FILE SET

FIEIFEE O

Sets and Cases



• Pocketable & reasonable kit for daily use

KS-02



- Simple & basic tool kit



Set of 7 items

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

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

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

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

KS-20

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



KS-27

MY KIT

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



Set of 12 items

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



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



Cot of 12 it

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

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





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

KS-05

MAINTENANCE KIT

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



Set of 13 items

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

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

KS-06(KSE-06)

For field maintenance service (Complete Set)



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

KSC-06

Set of 21 items

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

DA-02 Alignment screwdriver

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

MAINTENANCE KIT

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

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



125mm 150mm 150mm

#00

#O #2 4×75

150mm

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

•For field maintenance service (Complete Set)

Cordless soldering iron

MAINTENANCE KIT

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

•Weight: 1kg

●Case: 255×150×50mm

20g

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n	

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

Cordless soldering iron

 SK-60
 Cordless soldering iron(w/cap)

 SK-66
 Hot blow tip

 SW-30
 Solder
 20g

 TWH-02
 Adjustable angle wrench
 200mm

 File (flat)
 File (flat)
 150mm

 TMH-04
 Steel rule
 150mm

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

 ©Case : 305×220×45mm
 Waight : 2kg

•Weight : 2kg

MARTENNE NT EGG IIIIII	
Second and the second	

Set of 20 items

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nm

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

MAINTENANCE KIT

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



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

150mm

KS-03(KSE-03)

• General electronic & job training use



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

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

KS-04(KSE-04)

TOOL KIT

TOOL KIT

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



Set of 14 items

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

●Weight:1.1kg

KSE-04 Case only

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

KS-08

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



ELECTRONICS KIT

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

●Case:255×150×50mm Weight : 1.0kg

KSC-04

Cordless soldering iron (with Multi-holder)

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



Cordless soldering iron

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

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

●Weight: 1.1kg



•For electronics, office automation maintenance, etc.

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



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

KS-28(KSE-28)

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

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



TOOL KIT

on the reverse





Free space in mesh pocket

KS-28 Set of 22 items

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

 Clear pocket (detachable)

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

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

SKC-30 Soldering iron

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

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

63

26W

TOOL KIT

KS-11(KSE-11)

Field service and maintenance of production lines & machinery

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



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

Set of 60 items

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

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



ATTACHE TOOL KIT

KS-12

Stylish and functional tool kit



Set of 25 items

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

Dividing plate for soldering box & tester

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

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

- 65



KA-22

KSE-12

Neatly designed for a stylish appearance

Incorporating empty tool panel and document pocket

Attractive and functional multipurpose case

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

BODY

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

DIAL LOCK

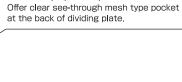
Add security with combination dial lock and two pushing locks. Open easily by sliding outside the 2 buttons.

ATTACHE CASE(WIDE TYPE)

Besides business use, add functional and

fashionable pockets and storage pouch to

meet multipurpose requirements.



INSIDE



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



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

hand and			

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

SABS ATTACHE CASE



KA-50•51

- Featuring a matt surface in silver color
- Streamline appearance









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

Stylish round corne

-

Tool panel affixed to shell with Velcro and detachable

KA-57

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





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



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



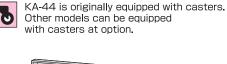
avy sponge		
	15mm	
	15mm	
ut sponge		
h cut sponge (15v1	5mm) can be removed	

so as to fit the size and shape of content.

KA-30•42~44

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







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

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

ALUMINIUM CASE FOR CLEANROOM

Water-repellent, anti-static or cleanroom

type is available at option.

KAC-30.42

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







Durable handle

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

0

KA-54

• Featuring a glossy surface in black color Streamline appearance

67





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

S

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

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

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



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

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

●KP-03 Ext. Size : 255×190×40mm

KP-02K•03K(KP-96•97)

Heavy duty transparent parts box, ideal for classification and storage

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



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

Compact, lightweight and portable.

External Size:120×92×25mm

KP-04

components.

MICRO-RIB SYSTEM Rib Divider

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

●KP-03K

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







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

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

16 pcs. of dividing plates included



Most suitable for electronic parts and other small

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











Soldering Equipment



SK-30/40SERIES

SOLDERING IRON

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

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

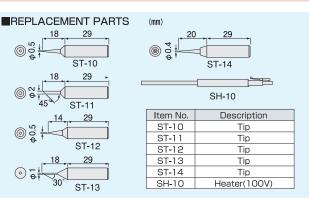


Specification								
Item No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance	
SK-30								
SKC-30	400℃		ST-10					
SKE-30				000				
SK-31		26W		202mm	130	100V	100M0	
SKC-31	440℃	2010	ST-11		130	1000	1000012	
SKE-31								
SK-32	390°C		ST-14	204mm				
SKC-32	3300		51-14	204				

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

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

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



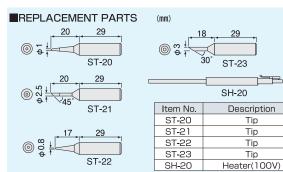
SK-40 SERIES

Specification

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

SKC with Heat-Resistant Cap.

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





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

Please refrain from beating and wrenching.

ST-20 ST-21

© 0.8 € 0.8 ST-22

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



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

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

650°C MAX

28ml

Abt 4 hours

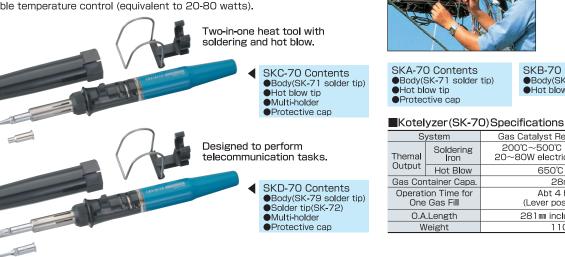
(Lever position : 2)

Multi-holder creates new field of cordless soldering iron!

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

SK-70SERIES

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



Telecommunication field

System

One Gas Fill

Soldering Iron

Hot Blow

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

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

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



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

Operation Time

for One Gas Fill

O.A.Length

Weight

about 60 min.

197mm Cap Included 74g

(Lever position: Middle)

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

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

SK-90

ENGINEER

265ml





480ml

Torch

Hot Blow

SS-15 2P-3P PLUG CONVERTER

Convertes 3P Plug with ground wire into 2P.



ZC-70·71

Ideal for rework of SMD solders.

Pin-point accuracy with no spillage

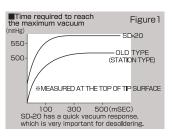
- ZC-70
- FLUX 50cc
- FLUX DISPENSER
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each
- ZC-71
- FLUX DISPENSER (BOTTLE)
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each

SD-20(SD-21~26•SD-60~88)

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

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





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

REPLACEMENT PARTS

2 3(min.)

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

Contents

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

SPECIFICATIONS

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

TOOL STAND



SD-60

SD-30(SD-29•31•86) SMD ACCESSORY KIT

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





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



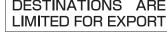
ENGINE



1

SOLDER CLEANER SD-20





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

> Temperature Adjustment Dial

(350~500°C)



SS-20

SS-05

• Weight: 75g

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

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

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

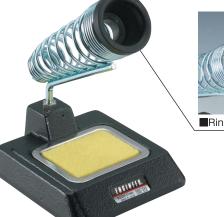
O-ring creates airtight condition to keep sponge moist.

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

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









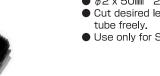
Ring detachable

64

75

(mm)

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



SWS-06~12 SUPERIOT RMA SOLDER

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

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

76

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



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

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

SWA-06~12 SUPERIOT RA SOLDER

No cleaning high performance resin core solder for soldering stainless steel

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



Superiot RA / For use on stainless steel & nickel

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

SWS-56~82 SUPERIOT RMA SOLDER

SWS-80

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

 SWS-62
 1.2

 SWS-76
 0.6

 SWS-78
 0.8

 SWS-80
 1.0

 SWS-82
 1.2

SWA-56~82

SUPERIOT RA SOLDER



SWA-58

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

SWU-02~06

SWS-58

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



For desoldering highly dense SMD

SWU-02 15mm×15m



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



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



For desoldering large-sized parts or terminals

SWU-05 3.9mm×1.5m



SOLDER WICK



For use at large solder lugs

SWU-06 5.6mm×1.5m

*Product of chemtronics, U.S.A

SW-11~53

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



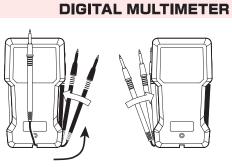
Item No.	diam.(mm)	Weight(g)
SW-11		150
SW-12	0.6	500
SW-13		1000
SW-21		150
SW-22	0.8	500
SW-23		1000
SW-30		20
SW-31	1.0	150
SW-32		500
SW-33		1000
SW-41		150
SW-42	1.2	500
SW-43		1000
SW-51		150
SW-52	1.6	500
SW-53		1000

SD-10

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

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





Test leads can be stored conveniently.

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

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



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

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

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





SL-80

SL-81

SL-82

SL-83

1.8

2.3

2.7

3.5

SL-85

SL-86

SL-87

SL-88

ESD HEMICALS

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

1.8

2.3

2.7

3.5

ESD Products and Chemicals





ZC-44~49 STATIC CONDUCTIVE GLOVES

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



(mm)

A×B

80×210

85×220

90×230

S

Μ

L





MANTI-STATIC GLOVES ZC-51~56

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







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

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

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

ZC-38~43

Fingertip Coating (mm)

S

Μ

L

A×B

72×185

83×190

85×200

Item No. Size

ZC-44

ZC-45

ZC-46

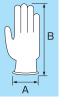
ZC-49

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





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



I

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

ZC-82-84-86 STATIC CONDUCTIVE BAG

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



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

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

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



RUST REMOVER

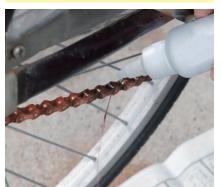
ZC-28

Amazing - How quickly it cleans rust off!

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



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



Before

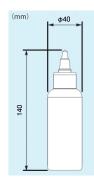
PRODUCT VIDEO











ZC-19

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

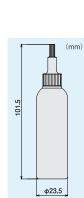
How to use

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



Machinery maintenance Lubrication





D

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

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	1608	Interchangeable Driver Set	47
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DK-21		Precision Driver	ĸ
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DK-22		Precision Driver	\geq
DK-23	Discon.	Precision Driver	\bowtie
DK-24	Discon.	Precision Driver	\sim
DK-25		Precision Driver	ĸ
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DK-26		Precision Driver	ĸ
DK-30	Discon.	⊖Precision Driver Set	\succ
DK-31	Discon.	Precision Driver	\sim
DK-32		Precision Driver	ĸ
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DK-33		Precision Driver	K
DK-34	Discon.	Precision Driver	\bowtie
DK-35	Discon.	Precision Driver	\sim
DK-36	Discon	Precision Driver	K
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DK-60		⊕⊖Precision Driver Set	ĸ
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DK-81	Discon.	Mobile Phone Driver Set	\bowtie
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DNP-05 DNP-07	Discon.	Pro Nut Driver	
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DNP-05 DNP-07	Discon. Discon.	Pro Nut Driver	
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DNP-05 DNP-07 DNP-08 DNP-10 DP-03	Discon. Discon. Discon. 1803	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕	
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13	Discon. Discon. Discon. 1803 1813	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝	38
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DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24	Discon. Discon. 1803 1813 1824	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-44	Discon. Discon. 1803 1813 1824 1834 1844	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54	Discon. Discon. 1803 1813 1824 1824 1834 1844 1854	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38 38 38
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TS-21		Spanner(Inclined Head)	K
TS-22	Discon.	Spanner(Inclined Head)	\bowtie
TS-23	Discon.	Spanner(Inclined Head)	\boxtimes
TS-24		Spanner(Inclined Head)	\bigtriangledown
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TWB-25 TWB-30 TWB-40	6225 6230 6240	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53
TWB-25 TWB-30 TWB-40 TWB-50	6225 6230 6240 6250	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53 53
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01	6225 6230 6240 6250 6260 6280 6301	Ball Point Hex Wrench Ball Point Hex Wrench Hex Key Wrench Set	53 53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02	6225 6230 6240 6250 6260 6280 6301 6302	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set	53 53 53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-01 TWH-02 TWH-04	6225 6230 6240 6250 6260 6280 6301 6302 6304	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set	53 53 53 53 53 53 53 53 53 53
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