Nippers



NS & NZ SERIES

- Features

 Our micro nippers are ideal for precise PCB work.
 Made of special steel and specially heat treated for excellent cutting capacity and durability.
 Flush cutting edge recommended for cutting copper and soft lead wires.
 Soft touch grip insulation and spring ensure long comfortable work.





With opening angle adjuster or stopper

NS-03

MICRO NIPPERS

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







NS-04

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



MICRO NIPPERS







NSX-04



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









- Undercut design featuring thin blade Ideal for precise PCB related work
- With opening angle adjuster
- Material: S58C
- Hardness: HRC 58±4
- lacktriangle Capacity: copper wire ϕ 0.8 mm



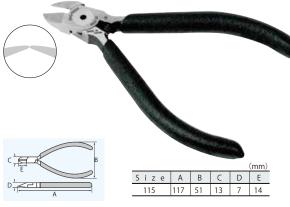
NS-06

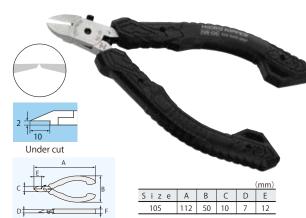












ippers cut	Commodity		Cont	Copper wire			(r
Item No.		Size	Solid (φ)	Stranded(mm ²)	Steel wire (∅)	Others	Page
NS-03	Micro Nippers	125	1.4	2			16
NS-04	Micro Nippers	115	1.2	2			16
NSX-04	Micro Nippers	115	1.2	2			16
NS-06	Micro Nippers	105	0.8				16
NZ-03	Chip Cutter	125	0.6				17
NZ-05	Chip Cutter	125	0.6			also applicable to plastic gate	17
NZ-12	Parallel Nippers	125	0.6				17
NZ-13	Parallel Nippers	125	0.6				17
NP-03	Plastic Nippers	125				Injection molding gate ∅3mm	19
NP-04	Plastic Nippers	150				Injection molding gate ∅3mm	19
NP-05	Plastic Nippers	115	0.8			Injection molding gate ∅3mm	19
NK-15	Diagonal Nippers	125	2.6	2	1.5		18
NK-16	Diagonal Nippers	150	3	2	1.9		18
NK-25	Diagonal Nippers	125	2.6	2	1.5	Stripping hole ∅1.2 & 1.6mm	18
NK-26	Diagonal Nippers	150	3	2	1.9	Stripping hole ∅1.2 & 1.6mm	18
NK-36	Diagonal Nippers	150	3.2		2	Vinyl isulated cable ⊘1.6mm	18
NN-45	Slant Edge Nippers	125	2	2	1.2	Stripping hole ∅1.2 & 1.6mm	19
NN-46	Slant Edge Nippers	150	2.6	2	1.4	Stripping hole ∅1.2 & 1.6mm	19
NN-56	Slant Edge Nippers	150	2.6	2	1.4		19

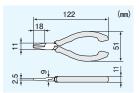
NZ-13G

NZ-03



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







NZ-05

- Opening angle adjuster (Max. 5mm) with 1.5mm hex key wrench
- included • Full-flush cut & slender design for work on circuit board
- ESD-Safe handles made of Elastomer (TPR)
- Material: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ0.6mm
- Applications: Leads of Dual In-line Package or Single In-line Package IC on SMD



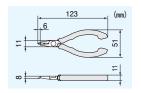


CHIP CUTTER













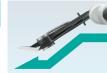
MICRO CUTTER

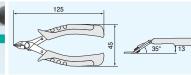
NZ-12G · 13G

Full flush & super-fine cutting edge

- Ideal to cut an IC lead of a narrow-pitch QFP or SOP with slender shears (0.3mm+0.3mm width at top)
- Flush cut of leads, prevents resist stripping or solder crack on a circuit board
- ESD-Safe handles made of Elastomer (TPR)
- lacktriangle Cutting capacity: Copper wire ϕ 0.6mm
- Light weight of 45g only







SHEARS & GRIP IN PARALLEL





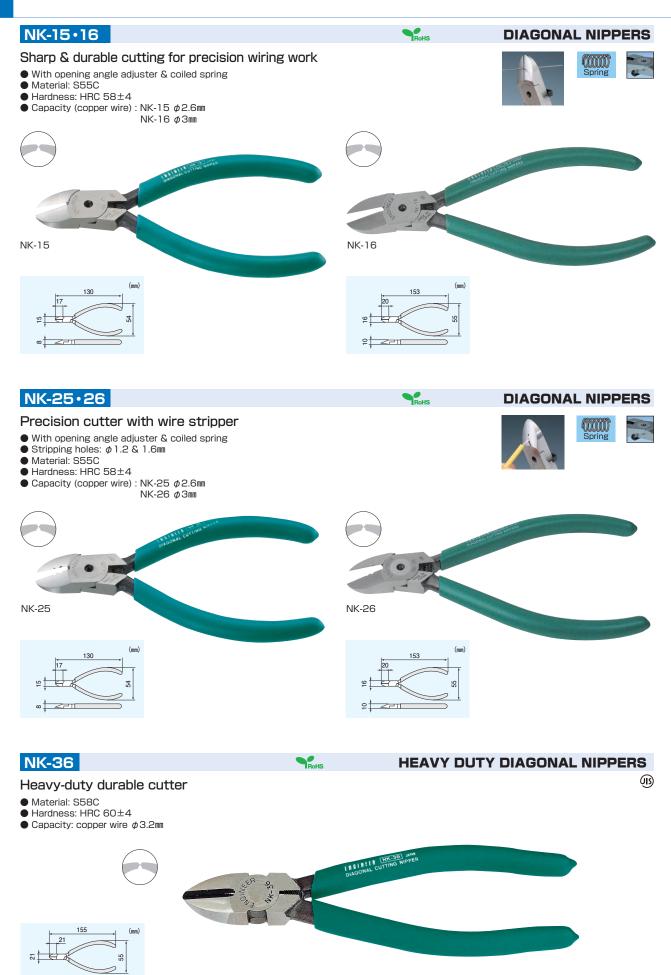


NZ-12: Normal Blade Enables you to make flush cut of a lead easily so as to prevent resist stripping or solder crack on the circuit board





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



NN-45-46 SLANT EDGE NIPPERS

• Stripping holes: ϕ 1.2 & 1.6mm

Material: S58C

Professional type for sharp & easy use



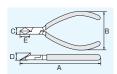


Sharp cutting & easy handling

• Material : S58C ● Hardness : HRC 58±4 • Capacity : copper wire ϕ 2.6mm

NN-56





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



							(mm)
Item No.	Size	Α	В	С	D	Е	Capacity
NN-45	125	133	51	14	10	23	copper wire $\phi2m$
NN-46	N-46 150		51	16	11	26	copper wire ϕ 2.6mm

NP-03·04

PLASTIC NIPPERS

6000000,

• Ideal for cutting plastic mold gates & burns

Full-flush cutting edge

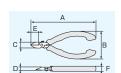
With opening angle adjuster & coiled spring







Item No. Size A B C D E NP-03 125 130 54 14 8 17 NP-04 150 | 152 | 55 | 16 | 10 | 20



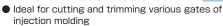
(mm)

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



	PLASTIC	MIDDEDS
RoHS	PLASTIC	MILLEUS

Tapered and slender head for work in restricted area



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

NP-05

● Hardness: HRC 59±3



Pliers



PS-01

Ideal for precision work

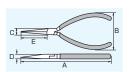
- Jaws with inside serrationMaterial: S58C
- Hardness: HRC 58±4
- Capacity: copper wire φ2mm







MINIATURE LONG NOSE PLIERS



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

PS-03

Ideal for forming work

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









MINIATURE NEEDLE NOSE PLIERS

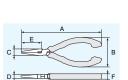


- Jaws without serrationESD-Safe handles made of Elastomer (TPR)
- Material: S58CHardness: HRC 46±4









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



MINIATURE FLAT NOSE PLIERS

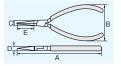




Thin and flat edge for efficient work

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





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

NOSE PLIERS PR-15 · 16

General purpose pliers

• Material: S58C



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

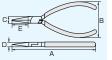
PM-06

ROUND NOSE PLIERS

Ideal for looping & coiling of steel wires

Material: SCM440H





					(mm)
SIZE	Α	В	С	D	Е
150	145	53	15	8	35

PR-26

LONG NOSE PLIERS

Professional type pliers

Material: S58C

● Hardness: HRC 58±4





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

LONG NOSE PLIERS

Multipurpose pliers with gripping jaws, cutter & wire stripper

- Stripping Hole: φ1.2mm
- Material: S58C
- Hardness: HRC 58±4



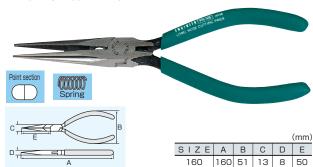
					(mm)
SIZE	Α	В	С	D	Е
150	160	51	17	10	50

PR-46

NEEDLE NOSE PLIERS

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

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



PD SERIES

Features Durably constructed Electrician's Pliers

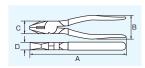
PD-06~08



- Heavy duty professional-use pliers
 - Material: S58C

(IS)

● Hardness: HRC 60±4



									(mm)
Item No.	S	i	Z	е	Α	В	С	D	Capacity
PD-06	150		165	50	22	12	steel wire \$\phi\$ 1.6		
PD-07		10	75		185	52	24	13	steel wire \$\phi\$ 1.8
PD-08		20	00		210	53	27	14	steel wire \$\phi 2.0\$

SIDE CUTTING PLIERS

PLIERS

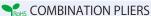
PC & PW SERIES

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

Material: S58C

Slip joint for wide-open jaws









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

(II)





L_ C
€ 8 × B
- A

					(mm)
Item No.	Size	Α	В	С	D
PC-05	150	167	44	42	9
PC-07	200	203	46	45	11

						(IIIIII)
Item No.	Size	Α	В	С	D	Max.Opening
PW-08	200	190	37	38	8	33
PW-09	250	254	46	49	10	46
PW-10	250	250	38	50	11	45

S E-RING PLIERS

Box joint

PZ-01 • 02

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

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

Magnetized point for convenient holding

● Long-life box joint structure to avoid loose joint

Material : Stainless steel



Ring Size

 φ 3 \sim 4

φ5~9

of grooved shaft to which E-ring retains.

The Ring Size shown above is the diameter

Item No.

PZ-01

PZ-02







Ring Size

SNAP RING PLIERS PZ-16~19

PZ-01

PZ-02

Slender design of jaws ideal for work at a confined area

150

164

• The spiked tips are angled outward (PZ-16&17) or inward (PZ-18&19)

to hold a snap ring securely without slippage.

Spring built into the joint screw for smooth and repeated work





				(mm)
Item No.	Applicable Ring Size	Tip Diameter	Ring Type	Wgt.
PZ-16	#10-25mm	arphi1.3mm	External ring	90g
PZ-17	#19-60mm	arphi1.8mm	External fing	175g
PZ-18	#10-25mm	arphi1.1mm	Internal ring	90g
PZ-19	#19-60mm	φ1.8mm	internalling	175a