



2014-2015

GOOT

SOLDERING IRONS, EQUIPMENT & ACCESSORIES

TAIYO ELECTRIC IND.CO.,LTD.

Vol.47

SOLDERING SYSTEM

SMT PRODUCTS

SOLDERING STATIONS

SOLDERING IRONS

SOLDER POTS

**DESOLDERING
PRODUCTS**

SOLDERS

**SOLDERING
ACCESSORIES**

TESTERS

HEATED TOOLS

HAND TOOLS



Management
System
ISO 9001:2008

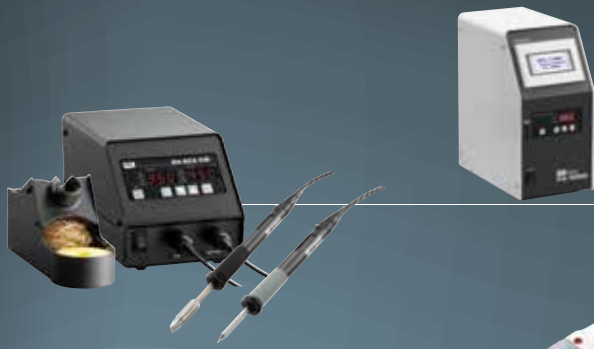
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HIROSHIMA JAPAN



- All **goot** brand products conform to **TAIYO ELECTRIC's** strict quality and safety standard. Please read the operating instructions packed with each product. This will ensure operator safety and maximum operation life.
- Temperatures stated in this catalog are based on our data. There might be differences due to the working environment.
- Models and specifications are subject to change without prior notice.

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•Temperature-Controlled, Lead-Free Dual-Port Soldering Station •Temperature-Controlled Lead-Free Soldering Stations •Temperature-Controlled Lead-Free Nitrogen Soldering Station •N2 Station •Lead-Free Automatic Solder Feeder



TEMPERATURE-CONTROLLED SOLDERING STATIONS

•Temperature-Controlled Soldering Stations •Mini Soldering Stations •Soldering Controllers



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•High Heat Volume Temp-Controlled Soldering Iron •Temperature-Controlled Soldering Iron •Fixed-Temperature Soldering Irons •Tip Thermometer •Soldering Tester

HIGH-EFFICIENCY SOLDERING IRONS

•Quick-Heat Soldering Irons •Precision PCB Soldering Irons •Precision-Component Mounting-Board Soldering Irons •Precision-Component Mounting-Board Soldering Irons •High-Power Soldering Irons •Temperature-Controlled •Stained-Glass Soldering Iron •Stained-Glass Soldering Irons



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SOLDER POTS

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SURFACE MOUNT/ SMT PRODUCTS

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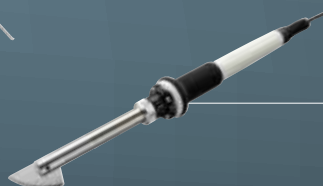
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SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT/ SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

Key to Icons



Meets RoHS directive.



A product specifically designed to handle lead-free solder applications.



A product made of anti-magnetic stainless steel.



A product which is manufactured using anti-static materials.



Material Safety Data Sheet available.



Meets EC directives.

[Model name / voltage may differ.]

B

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2 soldering irons can be used.

TEMPERATURE-CONTROLLED, LEAD-FREE **p.12**
DUAL-PORT SOLDERING STATION

RX-822AS



*Phenomenal heat recovery with
150W compact high-output heater.*



TEMPERATURE-CONTROLLED **p.14**
LEAD-FREE SOLDERING STATION

RX-852AS

*6 seconds to set temperature.
The ultimate solution
for lead-free soldering*



TEMPERATURE-CONTROLLED **p.16**
LEAD-FREE SOLDERING STATION

RX-802AS

*Nitrogen improves solder wetting
and fillet shape. **p.18***



TEMPERATURE-CONTROLLED
LEAD-FREE NITROGEN SOLDERING STATION

RX-802ASPH

SOLDERING SYSTEM

SOLDERING SYSTEM	<i>FA-1000</i>
SOLDER FEEDER UNIT	<i>FA-1000FD</i>
SOLDERING UNIT	<i>FA-1000SD</i>
SLIDING UNIT	<i>FA-1000SL</i>
SOLDER REEL HOLDER	<i>FA-1000RH</i>
TIP CLEANER	<i>FA-1000CL</i>

SOLDERING
SYSTEM

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

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SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT/SMT
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SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

Economical,
Soldering System



Excellent heat recovery & compact tip with
integrated heater (PAT.). V-groove function.

Desktop Soldering System
FA-1000 **NEW**

Economical, Efficient, High Quality Soldering!

Coming Soon



CONTROL UNIT FA-1000

The model number FA-1000 is for the control unit only. To complete the soldering system, the robot unit and the system components listed on the next page are required.



SPECIFICATION

Control Unit	Rated Voltage	100V, 110–120V, 220–240V AC 50/60Hz
	Power Consumption	180W
	Dimensions	140 (W) x 280 (H) x 240 (D)mm
	Weight	8.6kg
	Number of Soldering Programs	256 programs
	Tip Temperature Range	50–450°C
	Tip Temperature Preset	6 settings
	Input Air Pressure	0.4 – 0.5MPa
	Input Air Pressure	0.4 – 0.5MPa
Solder Feeder Unit	Solder Diameter	0.6(0.65) 0.8 1.0 1.2 1.6mm
Soldering Unit	Length	145mm
	Weight	Approx. 950g (Solder Feeder Unit included)
	Heater Voltage/Power	24V/150W

Robot (Stage)	Axis Type (Differs according to the Robot)	4-axis	Action Range	X -axis	200mm -
				Y -axis	150mm -
				Z -axis	50mm -
				R -axis	180°
		X-axis table - Tip (Z-axis direction)			80mm -
		3-axis	Action Range	X -axis	200mm -
				Y -axis	150mm -
	Z -axis			100mm -	
X-axis table - Tip (Z-axis direction)			60mm -		
Number of Programs		255 Programs			

Still under development; specifications may change.

3-Axis Sample Robot Configuration

- Simpler and more economical.



Actual robot (stage) may differ from photo.

4-Axis Sample Robot Configuration

- Nimble rotary head achieves excellent soldering.
- Easy teaching soldering program.
- Easy-to-use Teaching Pendant.



SYSTEM COMPONENTS

Solder Feeder Unit
FA-1000FD



V-groove Unit



Soldering Unit
FA-1000SD



Sliding Unit
FA-1000SL



Solder Dia.	Model
ø0.6mm	FA-1000-06V
ø0.8mm	FA-1000-08V
ø1.0mm	FA-1000-10V
ø1.2mm	FA-1000-12V
ø1.6mm	FA-1000-16V

Solder Reel Holder
FA-1000RH

With solder-finish-sensor,
*Solder not included.



Tip Cleaner
FA-1000CL

(Air-blow-nozzle type)



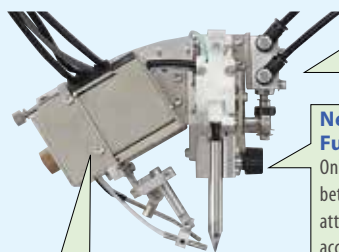
*Tip not included.



CONTROL UNIT
FA-1000

FEATURES

HEAD



Sliding Unit
Air cylinder drives tip vertically.

New Tip Release Function (PAT.P)
Only 30 seconds between removing and attaching. Easy and accurate replacement.



V-groove Function

Reduces the solder balls splattering. The longitudinal-groove prevents slips, and supplies stable solder. The short distance from the tip produces a more accurate feed.

*Please choose the suitable V-groove unit for your solder diameter.

CONTROL UNIT

Easy Touch Panel

English, Japanese, Chinese and Spanish.

Memory Card Function (optional)

Multiple uses are easy and copiable by saving the data to the memory card.

Up to 6 Tip Temperature Settings

Different tip temperatures can be set for each soldering.

Tip Temperature Monitor (optional)

Shows analog voltage of 1-5V of the tip temperature. Connecting to a data logger (on the market) helps to control the soldering temperature.

SOLDER REEL HOLDER



Solder Residue Run Out Function

After the solder-finish-sensor activates, the solder residue in the tube is used up.

Economical and High Performance Tip

Compact tip with integrated heater gives accurate tip temperature and better running cost (PAT.). In-house manufacturing for your custom needs. N2 gas system also available.



Still under development; specifications may change.
Robot unit is not included with this FA-1000.

REPLACEMENT PARTS / OPTIONS

Solder Feeder Unit FA-1000FD	V-groove Unit Solder Dia. $\varnothing 0.6$ FA-1000-06V
Soldering Unit FA-1000SD	V-groove Unit Solder Dia. $\varnothing 0.8$ FA-1000-08V
Sliding Unit FA-1000SL	V-groove Unit Solder Dia. $\varnothing 1.0$ FA-1000-10V
Solder Reel Holder FA-1000RH	V-groove Unit Solder Dia. $\varnothing 1.2$ FA-1000-12V
Tip Cleaner FA-1000CL	V-groove Unit Solder Dia. $\varnothing 1.6$ FA-1000-16V

FOR YOUR BETTER TEMPERATURE CONTROL

SENSOR UNIT TM-100SU



p. 32

TIP THERMOMETER TM-100



p. 32

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED, LEAD-FREE, DUAL-PORT SOLDERING STATION	<i>RX-822AS</i>
TEMPERATURE-CONTROLLED LEAD-FREE SOLDERING STATIONS	<i>RX-852AS</i> <i>RX-802AS</i>
TEMPERATURE-CONTROLLED LEAD-FREE NITROGEN SOLDERING STATION	<i>RX-802ASPH</i>
N ₂ STATION	<i>NC-100R</i>
LEAD-FREE AUTOMATIC SOLDER FEEDER	<i>FD-100</i>

SOLDERING
SYSTEM

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

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SOLDERING STATIONS

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LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

2 soldering irons can be used.



TEMPERATURE-CONTROLLED, LEAD-FREE,
DUAL-PORT SOLDERING STATION

RX-822AS



New Soldering Iron Stand

More stable, better operation

Tips not included.

2 Soldering Irons can Be Used*

Can be prepared with 2 soldering irons. Allows different types of work [such as micro soldering / high power work (150W)] at the same time.



Individual Temperature Setting

Independent displays make settings clear.



Enables Reworking of Chip Parts

Allows you to rework chip parts using 2 tips at a time.

Advanced Functions (PAT.)

Equipped with intelligent functions (sleep, sleep release, shut-down and Key lock) based on the **RX-802AS**.

Easy-to-Use Handpiece (PAT.)

Easy to replace a hot tip without any other tools. Good for long hours of work with light, well-insulated structure.

Wide Variety of Tips






More than 40 tips are available.

HOW TO CHANGE TIPS

Slide the lever in the direction of the arrow. The tip will come out. Hold and pull the plastic housing of the tip.



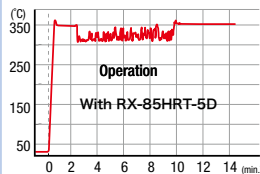
INCLUDED

<p>Station Unit</p> 	<p>Soldering Iron1 RX-85GAS</p>  <p>Tip is not included</p>	<p>Soldering Iron2 RX-80GAS</p>  <p>Tip is not included</p>	<p>Soldering Iron Stands ST-21</p>  <p>Brass Wool & Sponges included</p>	<p>Inlet Power Cord</p> 
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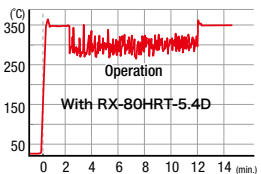
PRODUCT SPECIFICATIONS / FUNCTIONS

TIP-TEMPERATURE RECOVERY FEATURES

TIP1



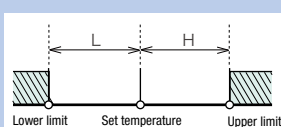
TIP2



A generous amount of lead-free solder on a land of 20mm dia. dissolving 35 points in succession at 350°C.

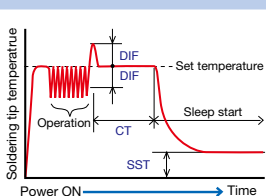
HIGH/LOW TEMPERATURE ALARM

An alarm sounds when the temperature goes above or below temperature settings. High/low setting range 3-100°C.



INTELLIGENT SLEEP FUNCTION (PAT.)

Automatically lowers the temperature when the iron is not in use, during a preset period of time. Prevents tip oxidation and excess heating. Can be used with Shutdown function.

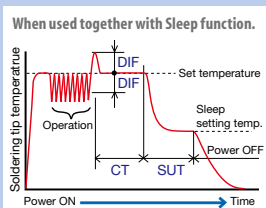
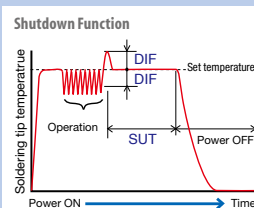


SLEEP FUNCTION RELEASE (PAT.)

Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

MODE: Sleep function ON/OFF
CT: Sleep start time
SST: Sleep set temperature
DIF: Sleep sensitivity
Each parameter can be set.

SHUTDOWN FUNCTION



When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

CALIBRATION (PAT.)

The calibration function digitally offsets the difference between the tip temperature and the temperature shown by a tip thermometer being used.

NEW ERGONOMIC GRIP (PAT.)

Prevents fatigue. Flexible cord, and a shorter distance from the handpiece to the tip.

SPECIFICATIONS

Model	RX-822AS
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	220-260W
Power Cord Length	1.5m inlet type
Temperature Setting Range	50-450°C
Insulation Resistance	Over 100MΩ (500V DC)
Ripple temperature	±5°C (unloaded)
Accessories	Soldering Iron Stand (ST-21) × 2

Control Unit

Output Voltage	24V AC
Dimensions	116(W) × 105(H) × 194(D)mm
Weight	4.9kg

Soldering Unit

Voltage/Consumption	Soldering Unit1 (RX-85GAS) : 24V AC / 72W-150W Soldering Unit2 (RX-80GAS) : 24V AC / 72W	
Ground Resistance	Less than 2Ω	
Leak Voltage	Less than 2mV	
Heater	Nichrome heater	
Cord Length	Soldering Unit1 : 1.5m, Soldering Unit2 : 1.2m	
Length	RX-85GAS	174mm (with RX-85HRT-5D)
	RX-80GAS	158mm (with RX-80HRT-B)
Weight	RX-85GAS	39g (with RX-85HRT-5D)
	RX-80GAS	28g (with RX-80HRT-B)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

*Two **RX-85GAS** (150W) irons cannot be used together.

For replacement tips, refer to p.20 & p.21

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

REPLACEMENT PARTS / OPTIONS

RX-852AS Soldering unit RX-85GAS	RX-802AS Soldering unit RX-80GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW	Flux Guard Rubber RX-80P
Tip is not included	Tip is not included		(2pcs/set)	

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB : gray
RX-80RB-BK : black
RX-80RB-GR : green
RX-80RB-OR : orange



with RX-80P



with RX-80RB

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

Phenomenal heat recovery with 150W compact high-output heater.



TEMPERATURE-CONTROLLED LEAD-FREE SOLDERING STATION RX-852AS



New Soldering Iron Stand
More stable, better operation



Tip not included.

Excellent Heat Recovery (PAT.)



Up to 22mm² copper wire can be soldered.

Excellent heat recovery has been achieved by combining a 150W compact high-output heater with a high-sensitivity sensor.

Fastest in Its Class

Reaches 350°C in only 14 seconds. (Only 6 seconds when using RX-80HRT tips.)

Light and Compact Handpiece

Same size as the RX-80GAS.

Tip Replacement without Tools (PAT.)

Slide-change tip. Easy to replace a hot tip without any other tools.

Thick Tip Coating for Lead-free Soldering

All tips have extra-thick iron plating, to resist erosion by lead-free solder.

RX-80HRT Tips also Available

More than 40 tips are available, including the RX-80HRT tips.



Slim tips now added to line-up.

HOW TO CHANGE TIPS

Slide the lever in the direction of the arrow. The tip will come out. Hold and pull the plastic housing of the tip.



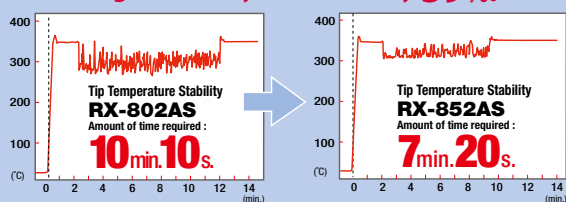
INCLUDED

<p>Station Unit</p>	<p>Soldering Iron RX-85GAS</p> <p>Tip is not included</p>	<p>Soldering Iron Stand ST-21</p> <p>Brass Wool & Sponges included</p>	<p>Inlet Power Cord</p>
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PRODUCT SPECIFICATIONS / FUNCTIONS

TIP-TEMPERATURE RECOVERY FEATURES

Soldering efficiency increased by 39%!

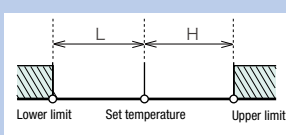


A generous amount of lead-free solder on a land of 20mm dia. dissolving 35 points in succession at 350°C.

Shortens soldering time significantly, and the tip temperature is more stable.

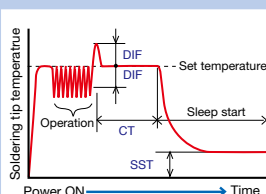
HIGH/LOW TEMPERATURE ALARM

An alarm sounds when the temperature goes above or below temperature settings. High/low setting range 3-100°C.



INTELLIGENT SLEEP FUNCTION (PAT.)

Automatically lowers the temperature when the iron is not in use, during a preset period of time. Prevents tip oxidation and excess heating. Can be used with Shutdown function.

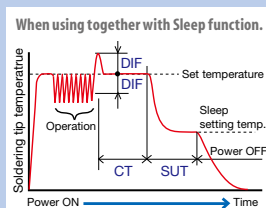
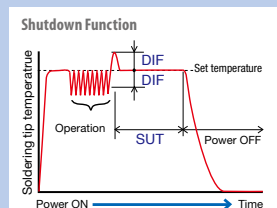


SLEEP FUNCTION RELEASE (PAT.)

Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

MODE: Sleep function ON/OFF
CT: Sleep start time
SST: Sleep set temperature
DIF: Sleep sensitivity
Each parameter can be set.

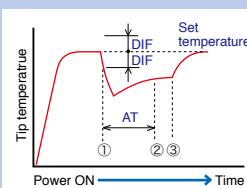
SHUTDOWN FUNCTION



When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

SOLDERING ALARM FUNCTION (PAT.)

- (1) Soldering time countdown (AT) starts when the tip is applied to the component. (The tip temperature goes outside DIF)
- (2) The alarm sounds after the preset countdown. (The display flashes twice)
- (3) Operator takes the tip off the component.



KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

CALIBRATION (PAT.)

The calibration function digitally offsets the difference between the tip temperature and the temperature shown by a tip thermometer being used.

NEW ERGONOMIC GRIP (PAT.)

Prevents fatigue. Flexible cord, and a shorter distance from the handpiece to the tip.

SPECIFICATIONS

Model	RX-852AS
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	145-170W
Power Cord Length	1.5m inlet type
Temperature Setting Range	50-450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Accessories	Soldering Iron Stand (ST-21)

Control Unit

Output Voltage	24V AC
Dimensions	116(W) × 105(H) × 194(D)mm
Weight	4.8kg

Soldering Unit

Voltage / Consumption	24V AC / 150W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	1.5m
Length	174mm (with RX-85HRT-5D)
Weight	39g (with RX-85HRT-5D)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

For replacement tips, refer to p.20 & p.21

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

REPLACEMENT PARTS / OPTIONS

RX-852AS Soldering unit RX-85GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW	Flux Guard Rubber RX-80P
 Tip is not included			

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB : gray
RX-80RB-BK : black
RX-80RB-GR : green
RX-80RB-OR : orange



with RX-80P



with RX-80RB

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

6 seconds to set temperature.
The ultimate solution for lead-free soldering.



TEMPERATURE-CONTROLLED LEAD-FREE SOLDERING STATION RX-802AS



CE

New Soldering Iron Stand

More stable, better operation

Tip not included.

Excellent Heat Recovery (PAT.)

There is almost no temperature fluctuation during continuous operation. Good for lead-free soldering.

Fastest in Its Class

Reaches set temperature in just 6 seconds after turning power on.

Tip Replacement without Tools (PAT.)

Slide-change tip. Easy to replace a hot tip without any other tools.

Reduced Grip Heat

Patented thermal-insulation grip permits comfortable and safe work.

Thick Tip Coating for Lead-free Soldering



All tips have extra-thick iron plating, to resist erosion by lead-free solder.

HOW TO CHANGE TIPS

Slide the lever in the direction of the arrow. The tip will come out. Hold and pull the plastic housing of the tip.



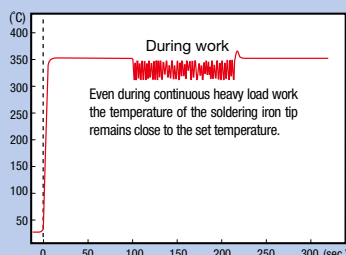
INCLUDED

 <p>Station Unit RX-802AS</p>	 <p>Soldering Iron RX-80GAS</p> <p>Tip is not included</p>	 <p>Soldering Iron Stands ST-21</p> <p>Brass Wool & Sponges included</p>
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PRODUCT SPECIFICATIONS / FUNCTIONS

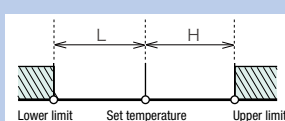
TIP-TEMPERATURE RECOVERY FEATURES

The tip temperature remains close to set temperature even during heavy load work.



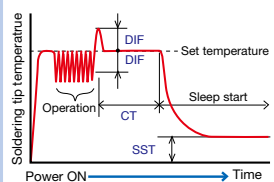
HIGH/LOW TEMPERATURE ALARM

An alarm sounds when the temperature goes above or below temperature settings. High/low setting range 3-100°C.



INTELLIGENT SLEEP FUNCTION (PAT.)

Automatically lowers the temperature when the iron is not in use, during a preset period of time. Prevents tip oxidation and excess heating. Can be used with Shutdown function.

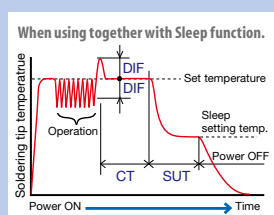
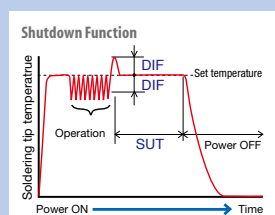


SLEEP FUNCTION RELEASE (PAT.)

Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

MODE: Sleep function ON/OFF
CT: Sleep start time
SST: Sleep set temperature
DIF: Sleep sensitivity
 Each parameter can be set.

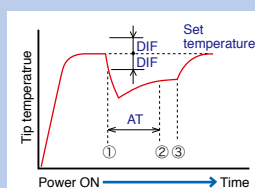
SHUTDOWN FUNCTION



When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

SOLDERING ALARM FUNCTION (PAT.)

- (1) Soldering time countdown (AT) starts when the tip is applied to the component. (The tip temperature goes outside DIF)
- (2) The alarm sounds after the preset countdown. (The display flashes twice)
- (3) Operator takes the tip off the component.



KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

CALIBRATION (PAT.)

The calibration function digitally offsets the difference between the tip temperature and the temperature shown by a tip thermometer being used.

NEW ERGONOMIC GRIP (PAT.)

Prevents fatigue. Flexible cord, and a shorter distance from the handpiece to the tip.

SPECIFICATIONS

Model	RX-802AS
Voltage	110V,120V,130V,220V,230V,240V AC 50/60Hz
Power Consumption	80W
Power Cord Length	1.2m
Temperature Setting Range	50-450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Accessories	Soldering Iron Stand (ST-21)

Control Unit

Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.8kg

Soldering Unit

Voltage/Consumption	24V AC / 72W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	1.2m
Length	158mm (with RX-80HRT-BM)
Weight	28g (with RX-80HRT-BM)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

For replacement tips, refer to p.20

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

REPLACEMENT PARTS / OPTIONS

Soldering Iron RX-80GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW	Flux Guard Rubber RX-80P
			
Tip is not included		(2pcs./set)	

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB : gray
RX-80RB-BK : black
RX-80RB-GR : green
RX-80RB-OR : orange



with RX-80P



with RX-80RB

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

Nitrogen improves solder wetting and fillet shape.

NOTE Preheat effect cannot be achieved by the RX-802ASPH alone. A Nitrogen gas generator is required. We recommend our NC-100R N₂ station.

TEMPERATURE-CONTROLLED LEAD-FREE NITROGEN SOLDERING STATION RX-802ASPH



RoHS **ANTI** **STATIC** **LEAD** **FREE**

All-in-one N2 Nozzle Tips (PAT.)

Each RX-80HRT tip is equipped with a slim N2 nozzle.



Slim N2 Nozzles

6.4mm slim N2 nozzles. Get into small spaces easily.

Light and Easy-to-use Handpiece

Handpiece weighs only 33g. So light it's hard to believe it's for a Nitrogen station!

Flexible N2 Induction Tube

Super-flexible. Allows free maneuvering of handpiece.

Special Tool for Easy Tip Replacement

Comes with a handy tool to change a hot tip easily.

IMPROVING LEAD-FREE SOLDERING

Advantages of the Preheat Effect

- Allows you to use lead-free solder (which has a high melting point) at a temperature close to that of a Eutectic Sn-Pb tip.
- Minimal tip temperature reduction shortens soldering time significantly.
- Reduces splashing or component damage by heat shock.

Advantages of Preheating with Nitrogen

- Reduces oxidation of the solder area and the tip.
- Improves solder wetting and fillet shape.

Normal soldering iron



A tip alone heats only the solder joint area, so the PCB drains the heat. Solder wetting may also be poor.

Nitrogen soldering iron



Nitrogen preheats the whole soldering area. This is particularly effective on a multi-layered PCB copper pattern. Better solder wetting.

INCLUDED

Station Unit 	Soldering Iron RX-80GASPH <p>Tip is not included</p>	Soldering Iron Stands ST-21 <p>Brass Wool & Sponges included</p>	Tip changing tool RX-80PHC
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PRODUCT SPECIFICATIONS / FUNCTIONS

SPECIFICATIONS

Model	RX-802ASPH
Voltage	110V,120V,130V,220V,230V,240V AC 50/60Hz
Power Consumption	80W
Power Cord Length	1.2m (3 core cord) ground plug
Temperature Setting Range	50–450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	100MΩ (500V DC)
Accessories	Soldering Iron Stand (ST-21)

For basic performance, please refer to RX-802AS, page 16.

The standard soldering unit **RX-80GAS** and the tips **RX-80HRT** series cannot be used as a N₂ soldering iron.

For replacement tips, refer to **p.21**

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

Control Unit

Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.8kg

Soldering Unit

Voltage / Consumption	24V AC / 72W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	1.2m
Length	158mm (with RX-80HRT-PHB)
Gas Supply Pressure	0.2MPa(2kgf/cm ²)
Weight	33g (with RX-80HRT-PHB)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

Soldering Unit Hand Piece RX-80GASPH  Tip is not included	N2 O-ring RX-80PHP 	Tip changing tool RX-80PHC 	Soldering Iron Stand Sponge ST-53SP 	Soldering Iron Stand Cleaner ST-40BW  (2pcs./set)
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A compact N₂ station combining N₂ generator and controller.

N₂ STATION NC-100R



The special separation membrane separates the nitrogen from the compressed air produced by a compressor.

Maintains a stable output pressure(0.2MPa). Two-tiered setting with **RX-802ASPH** achieves efficient work in smaller space.



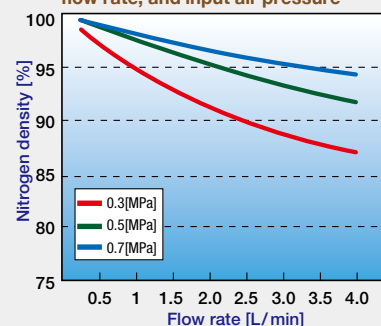
SPECIFICATIONS

Model	NC-100R
Input pressure	0.3–0.7MPa
Input temperature	5–50°C
Nitrogen generation density	Maximum 99.5% (0.7MPa, 0.5L / min)
Recommended Nitrogen generation flow rate	1.0L / min
Flow meter	0.5-4.0L / min
Dimensions	118(W) × 112(H) × 185(D)mm (not including protruding parts)
Weight	2kg
Required Hose Dimension	Input: Outer diameter ø6mm Output : Outer diameter ø4mm

NITROGEN GENERATION DENSITY

(According to in-house measuring method)

The relation between Nitrogen density, flow rate, and input air pressure



MPa	L/min	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.3		98.7	96.6	94.5	92.0	90.8	89.7	88.5	87.5
0.5		99.8	99.2	98.0	96.8	95.7	94.8	93.8	92.6
0.7		99.9	99.7	99.2	98.3	97.7	97.1	96.3	95.4

An example of measured value

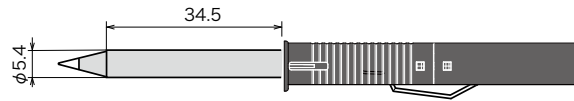
■SET-UP EXAMPLE RX-802ASPH + NC-100R



LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

RX-80HRT Series / Applicable Model (Grip)

RX-802AS (RX-80GAS), **RX-852AS** (RX-85GAS)
RX-822AS (RX-80GAS and RX-85GAS)

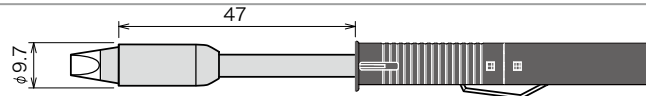


RoHS

RX-80HRT-B	RX-80HRT-2B	RX-80HRT-SB	RX-80HRT-LB	RX-80HRT-LBJ
RX-80HRT-BM	RX-80HRT-1BC	RX-80HRT-2.3BC	RX-80HRT-3BC	RX-80HRT-0.5C
RX-80HRT-1C	RX-80HRT-2C	RX-80HRT-2CD	RX-80HRT-3C	RX-80HRT-3CD
RX-80HRT-4C	RX-80HRT-4.7C	RX-80HRT-0.8D	RX-80HRT-1.2D	RX-80HRT-1.6D
RX-80HRT-2.4D	RX-80HRT-3.2D	RX-80HRT-5.4D	RX-80HRT-3K	RX-80HRT-4.5K
RX-80HRT-4.5KH	RX-80HRT-5.5K			

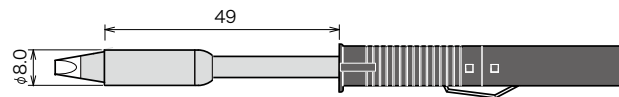
RX-85HRT Series / Applicable Model (Grip)

RX-852AS (RX-85GAS), **RX-822AS** (RX-85GAS)

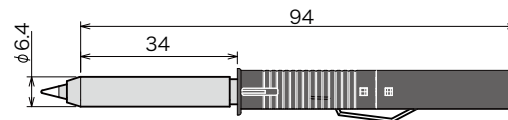


RoHS

RX-85HRT-B	RX-85HRT-2BC	RX-85HRT-3BC	RX-85HRT-5BC	RX-85HRT-7BC
RX-85HRT-3D	RX-85HRT-5D	RX-85HRT-7D	RX-85HRT-6K	

RX-85HSRT Series / Applicable Model (Grip)
RX-852AS (RX-85GAS), RX-822AS (RX-85GAS)

RoHS

RX-85HSRT-B	RX-85HSRT-2BC	RX-85HSRT-3BC	RX-85HSRT-1.6D	RX-85HSRT-2.4D
RX-85HSRT-3.2D	RX-85HSRT-4.5K			

RX-80HRT-PH Series / Applicable Model (Grip)
RX-802ASPH (RX-80GASPH)

RoHS

RX-80HRT-PHB	RX-80HRT-PH2B	RX-80HRT-PHSB	RX-80HRT-PHLB	RX-80HRT-PHLBJ
RX-80HRT-PHBM	RX-80HRT-PH1BC	RX-80HRT-PH2.3BC	RX-80HRT-PH3BC	RX-80HRT-PH0.5C
RX-80HRT-PH1C	RX-80HRT-PH2C	RX-80HRT-PH2CD	RX-80HRT-PH3C	RX-80HRT-PH3CD
RX-80HRT-PH4C	RX-80HRT-PH4.7C	RX-80HRT-PH0.8D	RX-80HRT-PH1.2D	RX-80HRT-PH1.6D
RX-80HRT-PH2.4D	RX-80HRT-PH3.2D	RX-80HRT-PH5.4D	RX-80HRT-PH3K	RX-80HRT-PH4.5K
RX-80HRT-PH4.5KH				

SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

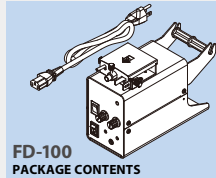
Stable quality at less cost!
Fixed Solder Feed



LEAD-FREE AUTOMATIC SOLDER FEEDER FD-100



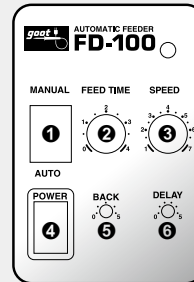
The above photo is with optional parts. Solder, soldering unit, and other optional parts are not included with this FD-100.



MAX Ø1.6 LEAD-FREE SOLDER APPLICABLE
wide tube

INNOVATIVE DESIGN MEANS FEWER CLOGS
Handpiece shaped for smooth solder flow

COMPATIBLE WITH YOUR SOLDERING UNIT
for **goot RX series** soldering stations



FRONT PANEL

- 1 Mode Changer
- 2 Feed Time Adjuster
- 3 Feed Speed Adjuster
- 4 Main Power Switch
- 5 Return Amount Adjuster
- 6 Delay Time Adjuster

ST-21 soldering iron stand for
RX-802AS/852AS/822AS
If you don't have it, please purchase one. (The old ST-20 is not applicable)



ST-27 soldering iron stand for
RX-701AS/711AS
If you don't have it, please purchase one. (The old ST-77 is not applicable)



- One-handed soldering work possible. ON/OFF switch is built into the Tube Assy **FD-100TA** (sold separately).
- Ø0.6-1.6mm lead-free solder applicable.

SAMPLE CONFIGURATION



1 Temperature-Controlled Lead-Free Soldering Station	RX-802AS
2 Automatic Solder Feeder Unit	FD-100
3 Tube Assy	FD-100TA-1.0
4 Guide Pipe	FD-100P-80
5 Nozzle	FD-100N-1.0

REPLACEMENT PARTS / OPTIONS

Solder Nozzle

Solder Dia. Ø0.6/0.65	FD-100N-0.6
Solder Dia. Ø0.8	FD-100N-0.8
Solder Dia. Ø1.0	FD-100N-1.0
Solder Dia. Ø1.2	FD-100N-1.2
Solder Dia. Ø1.6	FD-100N-1.6

Guide Pipe

Soldering unit RX-80GAS	FD-100P-80
Soldering unit RX-85GAS	FD-100P-85
Soldering unit RX-72GAS	FD-100P-72

CHOOSING OPTIONAL PARTS

1. Choose the suitable guide pipe for your soldering unit.

For RX-80GAS soldering unit	For RX-85GAS soldering unit	For RX-72GAS soldering unit
Applicable Guide Pipe FD-100P-80	Applicable Guide Pipe FD-100P-85	Applicable Guide Pipe FD-100P-72
RX-80GAS The standard soldering unit came with RX-802AS/822AS.	RX-85GAS The standard soldering unit came with RX-852AS/822AS.	RX-72GAS The standard soldering unit came with RX-701AS/711AS.

2. Choose the suitable nozzle and tube assy for your solder diameter.

Solder Dia.	0.6 / 0.65mm	0.8mm	1.0mm	1.2mm	1.6mm
Tube Assy	FD-100TA-1.0			FD-100TA-1.6	
Nozzle	FD-100N-0.6	FD-100N-0.8	FD-100N-1.0	FD-100N-1.2	FD-100N-1.6

SPECIFICATIONS

MODEL	FD-100
Voltage	100-240V AC 50/60Hz
Power Consumption	8W
Power Cord Length	1.5m inlet type
Applicable Soldering Irons	RX-802AS (with RX-80GAS) RX-852AS (with RX-85GAS) RX-822AS (with RX-80/85GAS) RX-701/711AS (with RX-72GAS)
Applicable Solder Diameter	Ø0.6-Ø1.6 (LF solder applicable)
Solder Feed Speed	6-22mm/sec (unloaded)
Solder Feed Time	0-4sec
Returned Solder Amount	0-5mm (fixed speed)
Solder Feed Delay Time	0-5sec
Dimensions	82(W) × 140(H) × 210(D)
Weight	1.5kg (w/o solder)

*The length does not include the cord bushing. The weight does not include the cord.

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

RX-701AS/711AS

MINI SOLDERING STATIONS

PX-501AS/501

SOLDERING CONTROLLERS

PX-601AS/601

TEMPERATURE-CONTROLLED SOLDERING STATIONS

Lightweight, slim handpiece
with reduced heat-up!



TEMPERATURE-CONTROLLED SOLDERING STATIONS RX-701AS/RX-711AS



New Soldering Iron Stand
More stable, better operation

Quick Heat Recovery

New heater with internal sensor achieves 60W.

Easy to Use

Allows two-tiered setting with another RX-701AS/711AS.

High Insulation. Reliable 24V Output.

The heater is completely separated from the input power by the insulated transformer. And the 24V heater is safe to use for sensitive components.

Comfortable Handpiece

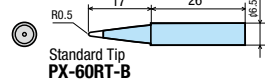
We have made it slimmer while still achieving less heating of grip.

Protective Cover (PAT.)

Prevents tampering.

Wide Variety of Tips

A wide variety of replacement tips for all types of work. Refer to page [p. 26](#) for further details.



INCLUDED



REPLACEMENT PARTS / OPTIONS

Heater

RX-72H

Heater Barrel

RX-72HP

Collar

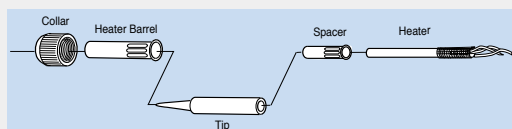
TQ-77NUT

Spacer

RX-72SS

Soldering unit

RX-72GAS



RX-711AS

RX-701AS

SPECIFICATIONS

Model	RX-701AS	RX-711AS
Voltage	110V,120V,130V,220V,230V,240V AC 50/60Hz	
Power Consumption	65W	
Power Cord Length	1.2m	
Temperature Setting Range	200–450°C	200–480°C
Ripple temperature	±5°C (unloaded)	
Insulation Resistance	Over 100MΩ (500V DC)	
Accessories	Soldering Iron Stand (ST-27), Soldering Iron Tip (PX-60RT-B)	

Control Unit

Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.5kg

Soldering Unit

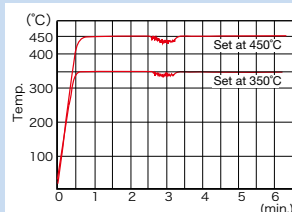
Voltage / Consumption	24V AC / 60W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	197mm (with PX-60RT-B)
Weight	44g (with PX-60RT-B)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively on 5mm-dia land. Approx. 2 sec / land. (with PX-60RT-B tip)



High-performance soldering station.

MINI SOLDERING STATIONS PX-501/PX-501AS



Temperature adjustable
250–450°C

Quick Start (PAT.)

Reaches set temperature fast with the Quick Start circuit.

Temperature Calibration

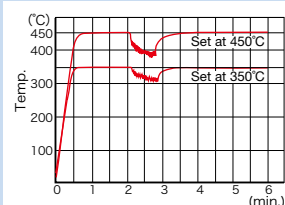
Accurate calibration.

Leakage Current / Insulation-Resistance Measuring Terminal

The **PX-601** Series has a measurement terminal to easily assess leakage current and insulation resistance.

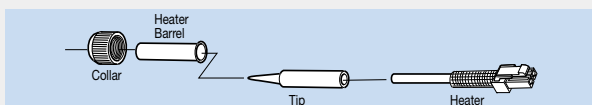
TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively
on 5mm-dia land. Approx. 2
sec / land.
(with **PX-60RT-B** tip)



REPLACEMENT PARTS / OPTIONS

Heater	PX-501AS/601AS Soldering Unit
PX-60H	PX-60GAS
PX-501/601 Soldering Unit	Collar
PX-60G	TQ-77NUT
Heater Barrel	
PX-60HP	



Recommended **ST-27** refer to page [p. 76](#)



ST-27

Accurate temperature control, high-performance compact model.

SOLDERING CONTROLLERS PX-601/PX-601AS



Comes with protective
cover (PAT.)

SPECIFICATIONS

Model	PX-501	PX-501AS	PX-601	PX-601AS
Voltage	110V, 220–240V AC 50/60Hz			
Power Consumption	85W			
Power Cord Length	1.5m			
Temperature Setting Range	250–450°C			
Ripple temperature	±5°C (unloaded)			
Insulation Resistance	Over 100MΩ (500V DC)			
Accessories	Soldering Iron Tip (PX-60RT-B)			

Control Unit

Output Voltage	110V, 220–240V AC		
Dimensions	100(W) × 57(H) × 85(D)mm	48(W) × 31(H) × 130(D)mm	
Weight	266g	75g	

Soldering Unit

Voltage / Consumption	110V, 220–240V AC / 80W		
Ground Resistance	Less than 2Ω		
Leak Voltage	Less than 2mV		
Heater	Ceramic heater		
Cord Length	1.2m		
Length	195mm (with PX-60RT-B)		
Weight	41g (with PX-60RT-B)		

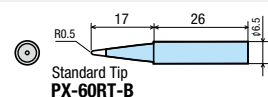
*The length does not include the cord bushing. The weight does not include the cord.

Anti-Static Model PX-501AS/PX-601AS



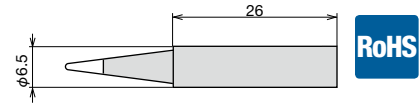
Wide Variety of Tips

A wide variety of replacement
tips for all types of work. Refer
to page [p. 26](#) for further details.



TEMPERATURE-CONTROLLED SOLDERING STATIONS

PX-60RT Series / Applicable Model RX-701AS, RX-711AS, PX-501, PX-501AS, PX-601, PX-601AS, CXR-31, CXR-41



PX-60RT-B	PX-60RT-SB	PX-60RT-LB	PX-60RT-1C	PX-60RT-1.5C
PX-60RT-2C	PX-60RT-3C	PX-60RT-4C	PX-60RT-0.5CR	PX-60RT-0.8CR
PX-60RT-1CR	PX-60RT-2CR	PX-60RT-3CR	PX-60RT-4CR	PX-60RT-0.8D
PX-60RT-1.2D	PX-60RT-1.2LD	PX-60RT-1.6D	PX-60RT-2.4D	PX-60RT-3.2D
PX-60RT-3K	PX-60RT-5K	PX-60RT-1.8H	PX-60RT-H	PX-60RT-R
PX-60RT-RT	PX-60RT-S4	PX-60RT-SB2	PX-60RT-SI	

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH HEAT VOLUME TEMP-CONTROLLED SOLDERING IRON	PX-401
TEMPERATURE-CONTROLLED SOLDERING IRON	PX-201
FIXED-TEMPERATURE SOLDERING IRONS	PX-335/338/342
SOLDERING TESTER	TM-200
TIP THERMOMETER	TM-100
SENSOR UNIT	TM-100SU

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

TEMPERATURE-CONTROLLED SOLDERING IRONS

Large tip for high thermal-storage effect.

HIGH HEAT VOLUME TEMP-CONTROLLED SOLDERING IRON PX-401

RoHS



TEMPERATURE ADJUSTABLE
300-480°C

ACCURATE TEMPERATURE CONTROL
Ceramic heater with internal sensor

ERGONOMIC GRIP
Prevents fatigue

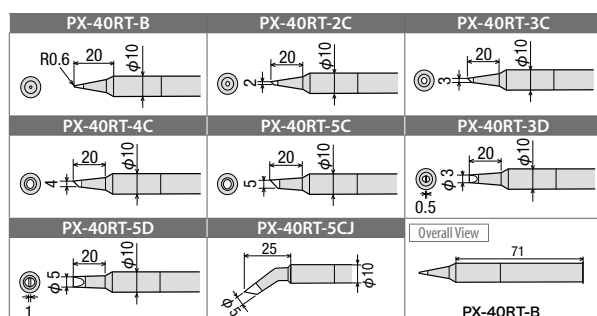
HIGH THERMAL-STORAGE EFFECT
Easy soldering of large parts

SPECIFICATIONS

Model	PX-401
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	70W
Temperature Setting Range	300-480°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Heater	Ceramic Heater
Power Cord Length	1.5m
Length	215mm
Weight	92g
Accessories	Soldering Iron Tip (PX-40RT-5C)

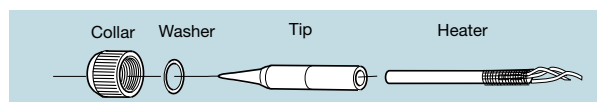
*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT TIPS



REPLACEMENT PARTS / OPTIONS

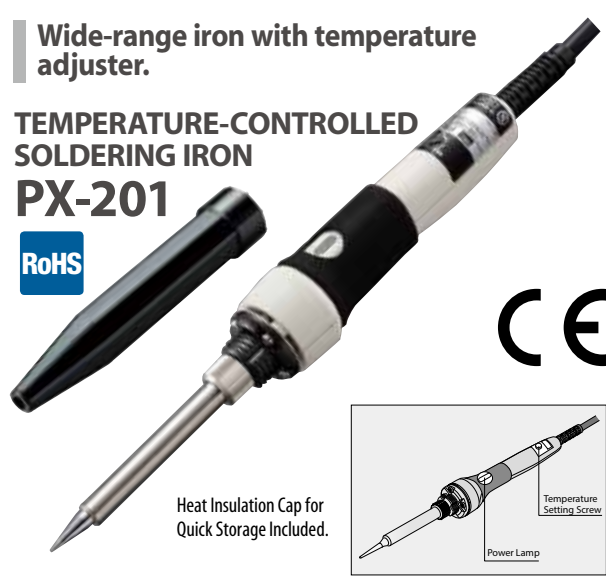
Heater PX-20H	Collar CXR-80NUT
Washer CXR-80WS	Recommended Stand ST-27



Wide-range iron with temperature adjuster.

TEMPERATURE-CONTROLLED SOLDERING IRON PX-201

RoHS



Heat Insulation Cap for Quick Storage Included.

TEMPERATURE ADJUSTABLE
250-450°C

ACCURATE TEMPERATURE CONTROL
Ceramic heater with internal sensor

ERGONOMIC GRIP
Prevents fatigue

HEAT-RESISTANT CAP
For quick storage after use

SPECIFICATIONS

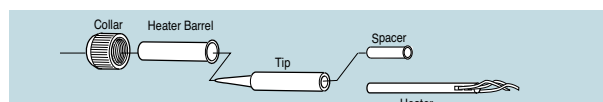
Model	PX-201
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	70W
Temperature Setting Range	250-450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Heater	Ceramic Heater
Power Cord Length	1.5m
Length	210mm
Weight	90g
Accessories	Soldering Iron Tip (PX-2RT-SB)

*The length does not include the cord bushing. The weight does not include the cord.

Replacement tips are interchangeable with PX-3 series. Refer to next page.

REPLACEMENT PARTS / OPTIONS

Heater PX-20H	Heater Barrel TQ-77HP (S)
Spacer TQ-77SS	Collar TQ-77NUT
CAP TQ-CAP	Recommended Stand ST-27



The heater is automatically controlled.

RoHS

FIXED-TEMPERATURE SOLDERING IRONS PX-335/PX-338/PX-342



POWER LAMP
Easy heater-on check

LEAD-FREE APPLICABLE
High-power ceramic heater

AUTOMATIC HEAT CONTROL
According to the heating load of the tip

COMFORTABLE SOLDERING
Improved grip design

COOLER GRIP
Thermal insulation & rubber grip

SPECIFICATIONS

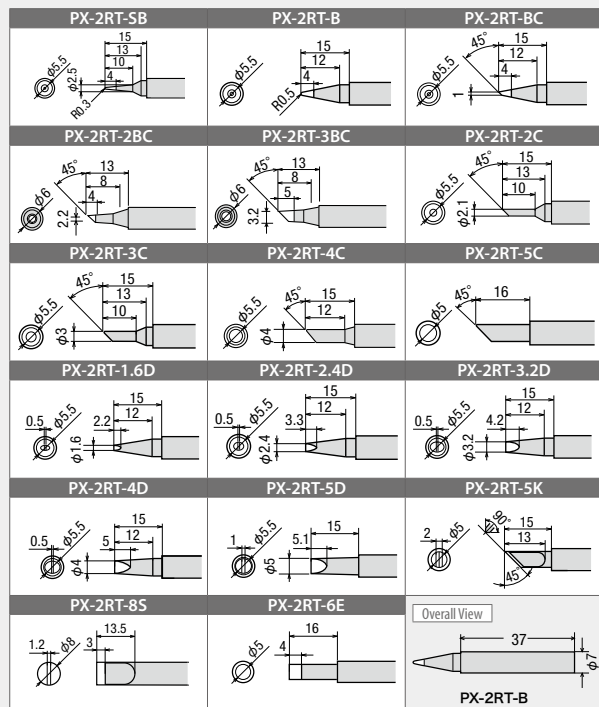
Model	PX-335	PX-338	PX-342
Voltage	110-120V, 220-240V AC 50/60Hz		
Power	110-120V model	90-130W	
Consumption	220-240V model	85-120W	75-110W
Temperature Setting Range	350°C	380°C	420°C
Ripple temperature	±5°C (unloaded)		
Insulation Resistance	Over 100MΩ (500V DC)		
Heater	Ceramic Heater		
Power Cord Length	1.5m		
Length	220mm		
Weight	70g		
Accessories	Soldering Iron Tip (PX-2RT-B)		

*The length does not include the cord bushing. The weight does not include the cord.

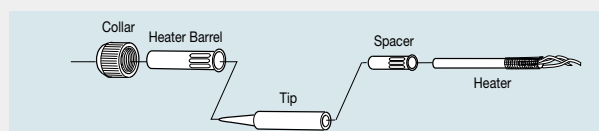
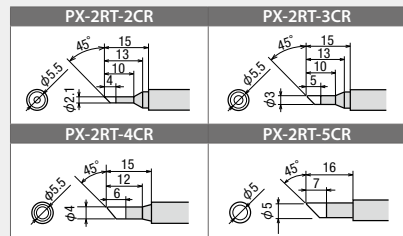
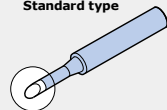
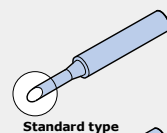
REPLACEMENT PARTS / OPTIONS

Heater	Spacer
PX-20H	TQ-77SS
Heater Barrel	Collar
PX-3HP	PX3-NUT
Recommended Stand	
ST-27	

REPLACEMENT TIPS



Round solder-plated tip



SOLDERING
SYSTEM

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

TEMPERATURE-CONTROLLED SOLDERING IRONS [SOLDERING TESTER]

Quick testing. Shorten your routine.



SOLDERING TESTER TM-200



LONG-LIFE TEMPERATURE SENSOR (PAT.P.)
Good for over 200 uses

SENSOR-LIFE COUNTER ALARM (PAT.P.)
to Estimate Operating-life

PEAK-HOLD FUNCTION
Retains display of the temperature change

ONE Multi-Tester measures tip temperature, leak voltage, and tip-to-ground resistance of soldering irons.



COMPARATOR FUNCTION

Warning lamp & buzzer tell pass-fail result of the set upper-lower limit.

INDICATED VALUE HOLD FUNCTION (Peak-Hold Function)

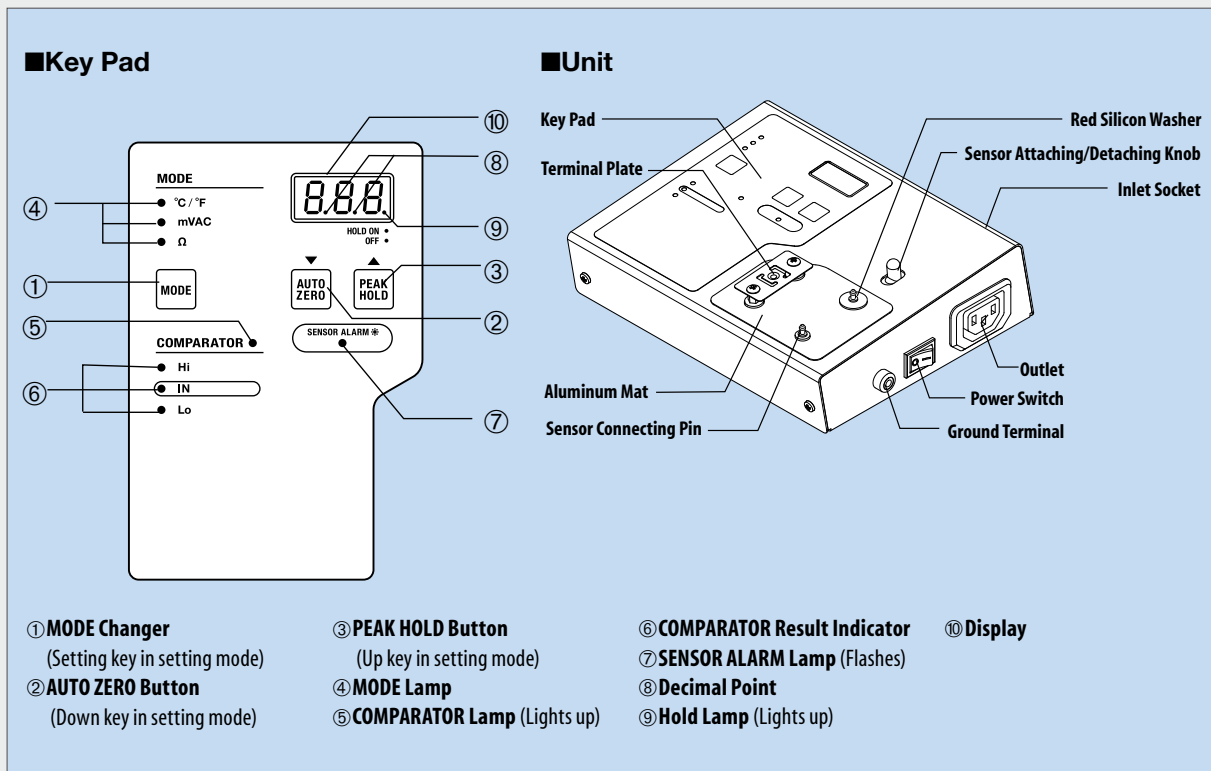
With one push, keeps the indicated value displayed.

AUTO ZERO FUNCTION

Automatically corrects the zero error when measuring Leak Voltage & Earth Resistance.

SENSOR-LIFE COUNTER ALARM

Estimates operating-life of the sensor.



Universal Tester!

100-240V available without transformer. Can be used all over the world.

Reduces Your Running Cost!

Superior cost-performance from both sensors and main unit.

Corresponding to wide temperature range *0-700°C (1292°F), as is needed for soldering work. The tolerance stays in the range of ±0.5% of the full scale (excluding sensor error). The sensor's structure makes for easy tip placing. It achieves stable & accurate measuring within seconds, regardless of shape, or angle of tip. Easily replaceable sensor.

*0-700°C is the range with (optional) sensor probe TM-100SP. With the standard sensor TM-100S, measurable 0-500°C (932°F).

REPLACEMENT PARTS / OPTIONS

Sensor (3pcs.) TM-100S	Sensor Probe TM-100SP
Sensor Unit TM-100SU	Terminal Plate TM-200P



SPECIFICATIONS

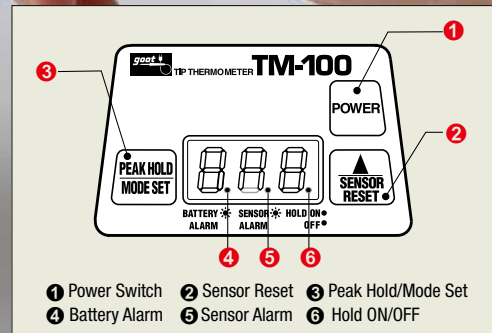
Model	TM-200
Voltage	100-240V AC 50/60Hz
Input Current	7A
Sensor	TM-100S (standard) TM-100SP (optional parts)
Dimensions	185(W) × 58(H) × 160(D)mm (w/o cord)
Weight	Approx. 1kg (w/o cord)
Temperature	Resolution 1°C
	Measuring Range Sensor TM-100S: 0-500°C(32-932°F) Probe TM-100SP: 0-700°C(32-1292°F)
	Accuracy 0-500°C : ±3° 501-700°C : ± 4°C
Voltage	Resolution 0-99.9mV: 0.1mV 100-200mV: 1mV (autorange)
	Measuring Range 0-200mV
	Accuracy ±(5% of reading value + 1dgt)
Resistance	Resolution 0-99.9Ω : 0.1Ω 100-200Ω : 1Ω (autorange)
	Measuring Range 0-200Ω
	Accuracy ± (5% of reading value + 1dgt)
Operating Environment	0-40°C, 20-85%RH (no condensation)
Accessories	Sensor 3pcs, Earth connecting lead, Fuse, Power Cord, Plug Adapter

TEMPERATURE-CONTROLLED SOLDERING IRONS [TIP THERMOMETER]

Quick measuring. Shorten your routine.

RoHS

TIP THERMOMETER TM-100



Wide temperature range *0-700°C (1292°F), as is necessary for soldering work. The tolerance stays in the range of $\pm 0.5\%$ of the full scale (excluding sensor error). The sensor's structure makes for easy tip placing. It achieves stable & accurate measuring within seconds, regardless of shape, or angle of tip. Easily replaceable sensor.

*0-700°C is the range with (optional) sensor probe TM-100SP. With the standard sensor TM-100S, measurable 0-500°C (932°F).

SPECIFICATIONS

Model		TM-100
Voltage		AA battery LR6 x 4pcs : 6V
Dimensions		83 (W) x 41(H) x 140(D) mm
Weight		150g (w/o battery)
Temperature	Resolution	1°C
	Measuring Range	Sensor TM-100S: 0-500°C Probe TM-100SP: 0-700°C
	Accuracy	0-500°C : $\pm 3^\circ\text{C}$ 501-700°C : $\pm 4^\circ\text{C}$
Operating Environment		0-40°C, 20-85%RH (no condensation)
Accessories		Sensor 3pcs AA battery LR6 x 4pcs



LONG-LIFE TEMPERATURE SENSOR (PAT.P.)
Good for over 200 uses

PEAK-HOLD FUNCTION
Retains display of the temperature change

SENSOR-LIFE COUNTER ALARM (PAT.P.)
to Estimate Operating-life

AUTO-POWER OFF
Automatically powers off at pre-set period



REPLACEMENT PARTS / OPTIONS

Sensor (3pcs.)
TM-100S

Sensor Probe
TM-100SP

Compact sensor for hard-to-reach places.

RoHS

SENSOR UNIT TM-100SU

NEW

⚠ TM-100 or TM-200 is required for TM-100SU to measure tip temperatures. TM-100SU cannot be used alone. TM-100S sensors sold separately.

Model	TM-100SU
Dimensions	64(W) x 28(H) x 100(D) (w/o cord)
Weight	210g
Cord Length	ø4x1.5m
Compatible Models	TM-100, TM-200



HIGH-EFFICIENCY SOLDERING IRONS

QUICK-HEAT SOLDERING IRONS	TQ-77/95
PRECISION PCB SOLDERING IRONS	CS-21/31
PRECISION-COMPONENT MOUNTING-BOARD SOLDERING IRONS	CXR-31/41
HIGH-POWER SOLDERING IRONS	CXR-60/80/100
TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON	HRC-401
STAINED-GLASS SOLDERING IRONS	HRC-80/100

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS	TEMPERATURE-CONTROLLED SOLDERING STATIONS	TEMPERATURE-CONTROLLED SOLDERING IRONS	HIGH EFFICIENCY SOLDERING IRONS	GENERAL/SPECIAL PURPOSE SOLDERING IRONS	SOLDER POTS	SURFACE MOUNT / SMT PRODUCTS	DESOLDERINGS	SOLDERING ACCESSORIES	SOLDERING WORK MATERIALS	HEATED TOOLS	HAND TOOLS
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HIGH-EFFICIENCY SOLDERING IRONS

Two-stage high-power heater.

QUICK-HEAT SOLDERING IRONS

TQ-77/95 

CE



TQ-95

SPECIFICATIONS

Model	TQ-77	TQ-95
Voltage	110-130V, 220-240V AC 50/60Hz	
Power Consumption	High 150W / Low 15W (110-130V model) High 200W / Low 20W (220-240V model)	
Insulation Resistance	Over 100M Ω (500V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5m	
Length	167mm	210mm
Weight	90g	65g
Accessories	Soldering Iron Tip (TQ-77RT-B)	Soldering Iron Tip (TQ-77RT-B) Cap for TQ-95 (TQ-CAP)

*The length does not include the cord bushing. The weight does not include the cord.

NOTE: High power runs while trigger/quick button is pressed.

REPLACEMENT PARTS / OPTIONS

TQ-95Heater	TQ-77 Heater	TQ-77/95 Spacer	TQ-95 Heat-Resistant Cap	Recommended Stand
TQ-95H	TQ-77H	TQ-77SS	TQ-CAP	ST-27
TQ-77/95 Heater Barrel	TQ-77/95 Collar			
TQ-77HP(L) 220-240V	TQ-77NUT			
TQ-77HP(S) 110-130V				

POWER LAMP (TQ-77 ONLY)

Easy heater-on check

COMFORTABLE SOLDERING

High-power ceramic heater

TWO-STAGE HEAT-SWITCH SYSTEM

10 times higher power than normal

ERGONOMIC GRIP

Prevents fatigue



Power monitor lamp

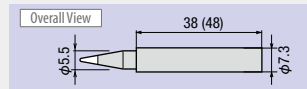
CE



TQ-77

REPLACEMENT TIPS

TQ-77RT-SB	TQ-77RT-B	TQ-77RT-BC
TQ-77RT-2C	TQ-77RT-3C	



() Size for 220-240V AC model

Best for precision soldering.

PRECISION PCB SOLDERING IRONS

CS-21/31 



CS-31

CE



CERAMIC-PIPE HEATER
Lower priced tips

PERFECT FOR PRECISION SOLDERING
Slim and sharp tips

SLIM GRIP
Easy to hold

REPLACEMENT PARTS / OPTIONS

CS-21 Heater	Recommended Stand
CS-21H	ST-27
CS-31 Heater	
CS-31H	

SPECIFICATIONS

Model	CS-21	CS-31
Voltage	110V, 220V, 240V AC 50/60Hz	
Power Consumption	20W	25W
Insulation Resistance	Over 100M Ω (500V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5m	
Length	188mm	
Weight	43g	
Accessories	Soldering Iron Tip (CS-20/30RT-SB)	

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT TIPS

CS-20/30RT-SB	CS-20/30RT-SBC
CS-20/30RT-2C	CS-20/30RT-3C

Best for SMD soldering. **RoHS**
PRECISION-COMPONENT
MOUNTING-BOARD SOLDERING IRONS
CXR-31/41

COMPACT AND LIGHT
Easy use

THICK-PLATED LONG-LIFE TIP
Hard chrome coated

EASY HEATER REPLACEMENT
Connector-type heater



CXR-31/41

CXR-31



Heat-resistant cap for
quick storage after use.
(Sold separately)

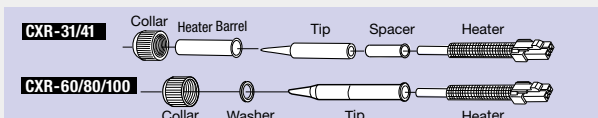
SPECIFICATIONS

Model	CXR-31	CXR-41	CXR-60	CXR-80	CXR-100
Voltage	110V, 120V 220-230V AC	110V, 120V 220-230V, 240V	110-130V, 220-240V AC 50/60Hz		
Power Consumption	22W	30W	28W	32W	38W
Insulation Resistance	Over 100MΩ (500V DC)				
Heater	Ceramic Heater				
Power Cord Length	1.5m				
Length	205mm		268mm		
Weight	60g		80g		88g
Accessories	Soldering Iron Tip				
	PX-60RT-SB		CXR-80RT-5C		CXR-100RT-7C

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

CXR-31 Heater CXR-31H	CXR-41 Heater CXR-41H
CXR-31/41 Spacer CXR-31SS	CXR-31/41 Heater Barrel PX-60HP
CXR-31/41 Collar TQ-77NUT	Heat-Resistant Cap TQ-CAP
CXR-60 Heater CXR-60H	CXR-80 Heater CXR-80H
CXR-100 Heater CXR-100H	CXR-60/80 Collar CXR-80NUT
CXR-100 Collar CXR-100NUT	CXR-60/80 Washer CXR-80WS
CXR-100 Washer CXR-100WS	Recommended Stand ST-27



High-powered quick thermal recovery. **RoHS**
HIGH-POWER SOLDERING IRONS
CXR-60/80/100

HIGH THERMAL-STORAGE EFFECT
Good for terminals, connectors

THICK-PLATED LONG-LIFE TIP
Hard chrome coated

EASY HEATER REPLACEMENT
Connector-type heater



CXR-100



Heat-resistant cap (TQ-CAP) is not
available for the CXR-60/80/100.



CXR-60/80

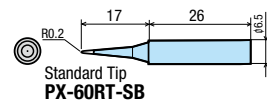


CXR-100

REPLACEMENT TIPS

For CXR-31/41 Series

A wide variety of replacement tips for all
types of work. Refer to [p. 26](#) for further
details.



Standard Tip
PX-60RT-SB

For CXR-60/80 Series

CXR-80RT-B	CXR-80RT-2C	CXR-80RT-3C
CXR-80RT-4C	CXR-80RT-5C	CXR-80RT-3D
CXR-80RT-5D	CXR-80RT-5CJ	

For CXR-100 Series

CXR-100RT-B	CXR-100RT-2C	CXR-100RT-3C
CXR-100RT-5C	CXR-100RT-7C	CXR-100RT-5D
CXR-100RT-7D	CXR-100RT-7CJ	

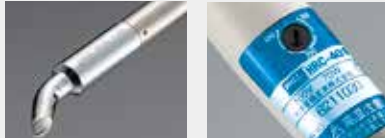
HIGH-EFFICIENCY SOLDERING IRONS

Best temperature adjustment.



TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON HRC-401

●Special soldering iron for stained-glass work. ●Adjustable to optimum temperature for copper tape, lead came or pearl frame. ●70W high-power.



Slim grip for easy handling.



STAINED-GLASS SOLDERING IRONS HRC-80/HRC-100

●Special soldering iron for stained-glass work. ●Good for Tiffany-style to lead-came style. ●Equipped with slim grip for easy handling with small hands. ●We recommend our Power Controller PC-11 for more sensitive work.



SPECIFICATIONS			
Model	HRC-401	HRC-80	HRC-100
Voltage	110-130V, 220-240V AC 50/60Hz		
Power Consumption	70W	32W	38W
Temperature Setting Range	300-480°C	-	-
Insulation Resistance	Over 100MΩ (500V DC)		
Heater	Ceramic Heater		
Power Cord Length	1.5m		
Length	215mm	273mm	273mm
Weight	83g	80g	88g
Accessories	Soldering Iron Tip		
	PX-40RT-5CJ	CXR-80RT-5CJ	CXR-100RT-7CJ

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT TIPS		
HRC-401 PX-40RT-5CJ	HRC-80 CXR-80RT-5CJ	HRC-100 CXR-100RT-7CJ

REPLACEMENT PARTS / OPTIONS

HRC-401 Heater
PX-20H

HRC-100 Heater
CXR-100H

HRC-100 Collar
CXR-100NUT

HRC-100 Washer
CXR-100WS

HRC-80 Heater
CXR-80H

HRC-401/80 Collar
CXR-80NUT

HRC-401/80 Washer
CXR-80WS

Recommended Stand
ST-27

Power Lamp

HRC-401

HRC-80

HRC-100

NICHROME HEATER SOLDERING IRONS/ GAS-POWERED SOLDERING IRONS

GENERAL ELECTRONICS SOLDERING IRONS	<i>KS/KX series</i>
SHEET-METAL SOLDERING IRONS	<i>HP series</i>
MANUAL-FEED SOLDERING IRONS	<i>HF series</i>
DUAL-POWER SOLDERING IRONS	<i>KYP-60/70</i>
PORTABLE SOLDERING IRON WITH CAP	<i>CA-30R/40R</i>
LOW-VOLTAGE SOLDERING IRONS	<i>MI-6 series</i>
GAS-POWERED SOLDERING IRONS	<i>GP series</i>
RED / BLACK TIPS	<i>R/RD/RB series</i>
COPPER TIPS	<i>T series</i>

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

NICHROME HEATER SOLDERING IRONS/GAS-POWERED SOLDERING IRONS

Our best-selling soldering iron.

GENERAL ELECTRONICS
SOLDERING IRONS

KS Series

RED TIP
Long-life tips

LIGHT GRIP
Easy to use



KS-30R

New ergonomic design.

GENERAL ELECTRONICS
SOLDERING IRONS

KX Series

RED TIP
Long-life tips

ERGONOMIC HANDLE
Reduces fatigue



KX-30R

RoHS

Model / Application	IC	P.C. Board	Transistors	Crystal Oscillators	Relays	Switches	Terminals	Connectors	Lead wires	Coaxial Cables	Metal Cases
KS-20R / KX-20R	○	○	○	○	○	○	○	○	○	○	○
KS-30R / KX-30R	○	○	○	○	○	○	○	○	○	○	○
KS-40R / KX-40R	○	○	○	○	○	○	○	○	○	○	○
KS-60R / KX-60R	○	○	○	○	○	○	○	○	○	○	○
KS-80R / KX-80R	○	○	○	○	○	○	○	○	○	○	○
KS-100R / KX-100R	○	○	○	○	○	○	○	○	○	○	○

○ The most suitable ○ Suitable — Not suitable

SPECIFICATIONS

KS series

Model	KS-20R	KS-30R	KS-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	20W	30W	40W
Heater	Nichrome Heater		
Length	205mm		
Weight	45g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KS-60R	KS-80R	KS-100R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	60W	80W	100W
Heater	Nichrome Heater		
Length	230mm	235mm	240mm
Weight	65g	70g	75g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

*The length does not include the cord bushing. The weight does not include the cord.

KX series

Model	KX-20R	KX-30R	KX-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	20W	30W	40W
Heater	Nichrome Heater		
Length	208mm		
Weight	50g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KX-60R	KX-80R	KX-100R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	60W	80W	100W
Heater	Nichrome Heater		
Length	233mm	238mm	243mm
Weight	70g	75g	80g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

KS-20R/KX-20R Heater	KS-30R/KX-30R Heater
KS-20H	KS-30H
KS-40R/KX-40R Heater	KS-60R/KX-60R Heater
KS-40H	KS-60H
KS-80R/KX-80R Heater	KS-100R/KX-100R Heater
KS-80H	KS-100H
Recommended Stand	Recommended Stand
ST-75	ST-11

REPLACEMENT TIPS

R-48SB	R-48B	R-6B
RD-67BC	RD-68BC	

■ High power. Suitable for sheet-metal work.



SHEET-METAL SOLDERING IRONS

HP-150/200/300

WOODEN HANDLE
Has good insulation

LARGE COPPER TIP
Can be shaped to suit your work purpose

SPECIFICATIONS

Model	HP-150	HP-200	HP-300
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	150W	200W	300W
Heater	Nichrome Heater		
Length	360mm	370mm	390mm
Weight	450g	610g	710g
Accessories	Soldering Iron Tip		
	T-13A	T-16A	T-19A

*The length does not include the cord bushing. The weight does not include the cord.



REPLACEMENT TIPS

HP-150 T-13A	HP-200 T-16A	HP-300 T-19A

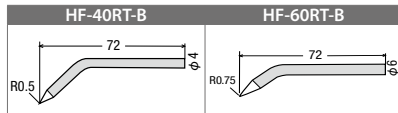
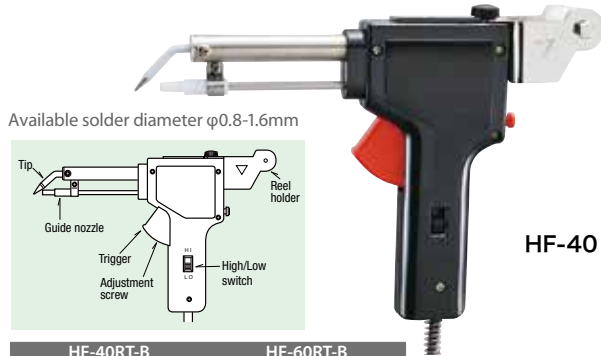
REPLACEMENT PARTS / OPTIONS

HP-150 Heater
HP-150H
HP-300 Heater
HP-300H

HP-200 Heater
HP-200H
Recommended Stand
ST-70

NICHROME HEATER SOLDERING IRONS/GAS-POWERED SOLDERING IRONS

One-handed soldering work. MANUAL-FEED SOLDERING IRONS HF-40/60



HF-40

SPECIFICATIONS

Model	HF-40	HF-60
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	40 / 20W	60 / 30W
Heater	Nichrome Heater	
Length	190mm	
Weight	305g	325g
Accessories	Soldering Iron Tip	
	HF-40RT-B	HF-60RT-B

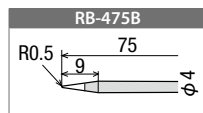
*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

HF-40 Heater HF-40H	HF-60 Heater HF-60H
Guide Nozzle HF-40N	Recommended Stand ST-70

For hobby use with dual switch. DUAL-POWER SOLDERING IRONS KYP-60/70

High 60W power when trigger is pulled.



KYP-70 comes with heat resistant cap for quick storage.

For other replacement tips, refer to next page.

SPECIFICATIONS

Model	KYP-60	KYP-70
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	Trigger ON 60W/Trigger OFF 30W	
Heater	Nichrome Heater	
Length	170mm	
Weight	160g	
Accessories	TQ-CAP (KYP-70), Soldering Iron Tip : RB-475B	

*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

Heater KYP-70H	Heat Resistant Cap for KYP-70 TQ-CAP
Recommended Stand ST-11	

Store quickly after soldering. PORTABLE SOLDERING IRON WITH CAP CA-30R/40R

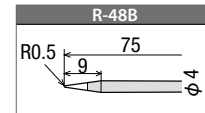


CA-30R

SPECIFICATIONS

Model	CA-30R	CA-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	30W	40W
Heater	Nichrome Heater	
Length	185mm	
Weight	60g	
Accessories	Soldering Iron Tip : R-48B	

*The length does not include the cord bushing. The weight does not include the cord.



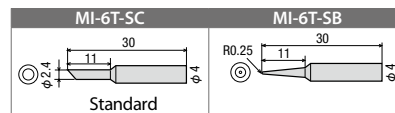
For other replacement tips, refer to next page.



REPLACEMENT PARTS / OPTIONS

CA-30R Heater KS-30H	CA-40R Heater KS-40H
Heat Resistant Cap TQ-CAP	Recommended Stand ST-11

Length only 150mm! Weight only 9g! LOW-VOLTAGE SOLDERING IRONS MI-6-6V/MI-6-12V



⚠ The tip and heater barrel connect to the minus pole (-) of the power supply. When using power from a car cigarette-lighter socket, never let the iron come into contact with the plus pole (+) of the car's electrical circuitry, or it may short-circuit or cause serious damage.

SPECIFICATIONS

Model	MI-6-6V	MI-6-12V
Voltage	5-6V AC / DC	11-12V AC / DC
Power Consumption	6W	
Heater	Nichrome Heater	
Length	150mm	
Weight	9g	
Accessories	Soldering Iron Tip : MI-6T-SC	

*The length does not include the cord bushing. The weight does not include the cord.

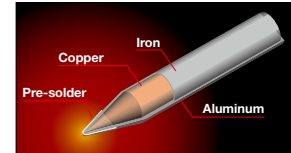
REPLACEMENT PARTS / OPTIONS

MI-6-6V Heater MI-6H-6V	MI-6-12V Heater MI-6H-12V
Recommended Stand ST-30	

10 to 20 times longer life than normal copper tips.



The **goot Red Tips** are genuine, long-life replacement tips. Made of iron-plated copper, coated with aluminum. 10 to 20 times longer life than normal copper tips. Hi-precision processed tips achieve extremely accurate soldering work. The **goot Black tips** are made of copper, iron plated, and covered with heat resistant coating.

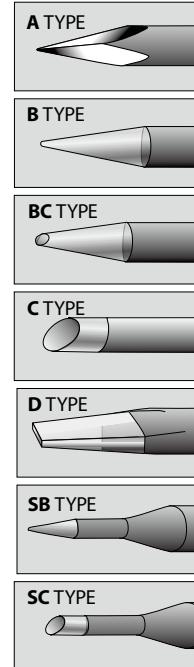


RED TIPS / BLACK TIPS R/RD/RB series

Tip Applicable Model List

SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
Black Tip	RB-475B	B	φ4mm	75mm	KYP-60, KYP-70
	RB-680B	B	φ6mm	80mm	KX-60R, KS-60R
Red Tip	R-48B	B	φ4mm	75mm	CA-30/40R KS-20R/30R/40R KYP-60, KYP-70 KX-20R, KX-30R, KX-40R
	R-48BC	BC			
	R-48C	C			
	R-48D	D			
	R-48SB	SB			
	R-48SC	SC			
	R-6B	B	φ6mm	80mm	KS-60R KX-60R
	R-6BC	BC			
	R-6C	C			
	R-6D	D			
	R-6SB	SB			
	R-6SC	SC			
	RD-67B	B	φ6-7mm	83mm	KS-80R KX-80R
	RD-67BC	BC			
	RD-67C	C			
	RD-67D	D			
	RD-68B	B	φ6-8mm	88mm	KS-100R KX-100R
	RD-68BC	BC			
	RD-68C	C			
	RD-68D	D			

TIP SHAPES



Tip Size Table

TYPE	R-48	R-6	RD-67	RD-68
B	a	0.5	0.8	0.6
	b	9	12	17
	c	7	10	10
BC	a	1.2	1.6	1.5
	b	9	12	17
	c	45	45	45
C	a	4	6	7
	b	7	10	12
	c	45	45	45
D	a	1	1.2	1
	b	3.2	4.2	4
	c	13	25	27
SB	a	0.3	0.3	—
	b	14	18	—
	c	2	3	—
SC	a	2	3	—
	b	14	18	—
	c	45	45	—

Tip Size Table

TYPE	T-13	T-16	T-19
A	a	2	3
	b	20	25
	c	13	16

During soldering, the flux may cause deformation or holes to appear in the copper tip. Please use a file to reshape the tip.

File reshaping available.



COPPER TIPS T series

Tip Applicable Model List

SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
Copper Tip	T-13A	A	φ13mm	115mm	HP-150
	T-16A	A	φ16mm	120mm	HP-200
	T-19A	A	φ19mm	135mm	HP-300

NICHROME HEATER SOLDERING IRONS/GAS-POWERED SOLDERING IRONS

■ High thermal-efficiency brass tip. **RoHS**

GAS-POWERED SOLDERING IRON GP-101S



● Compact gas soldering iron. Heats quickly. Takes only 30 seconds from ignition until soldering. ● Controls equivalent power of 10-60W with the temperature adjuster (at max temperature 480°C).

NOTE: Fill with gas before use.

SPECIFICATIONS	
Model	GP-101S
Ignition System	Flint-type ignition system
Combustion System	Gas Heating System
Gas Type	Butane lighter gas
Max. Temp. Output	Soldering Iron: 480°C
Refill Time	3 sec.
Operation Time Per Refill	Approx. 45 mins. (with temp.set at max.)
Length	157mm
Weight	43g

REPLACEMENT TIPS		
GP-101T-1C	GP-101T-2.4C	GP-101T-3.2C
Standard		
GP-101T-4.8C	GP-101CU	

■ Take high power outdoors. **RoHS**

GAS-POWERED SOLDERING IRON GP-501 *PORTASOL SUPER PRO*



● Heats quickly. Takes only 30 seconds from ignition until soldering. Controls equivalent power of 25-125W with the temperature adjuster.
● Can be used as a blow torch by removing the tip. With optional tips, do soldering work for large metal or precision PCBs, or use as a hot knife or a hot air tool.

● Operates approx. 45 minutes between refills (when used at max. temperature as a soldering iron).
● One-handed, one-touch ignition switch.



NOTE: Fill with gas before use.

SPECIFICATIONS	
Model	GP-501
Ignition System	Piezo electricity ignition system
Combustion System	Gas Heating System
Gas Type	Butane lighter gas
Max. Temp. Output	580°C (Soldering Iron) 1300°C (Blow Torch) 625°C (Hot Air)
Refill Time	20 sec.
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	223mm
Weight	147g

REPLACEMENT TIPS		
GP-501RT-1C	GP-501RT-2.4C	GP-501RT-3.2C
Standard		
GP-501RT-4.8C	GP-501RT-1D	GP-501RT-2.4D
GP-501RT-3.2D		
GP-501HT		
Hot Air		

Long-life iron-plated tips.

Piezo ignition, compact type. **RoHS**

GAS-POWERED SOLDERING IRON
GP-510 PORTASOL PRO PIEZO



- Heats quickly. Takes only 30 seconds from ignition until soldering. Controls equivalent power of 15-75W with the temperature adjuster.
- Optional tip converts it to a hot knife or other hot air tools.
- Operates approx. 45 minutes between refills (when used at max. temperature as a soldering iron).
- One-handed, one-touch ignition switch.



NOTE: Fill with gas before use.

SPECIFICATIONS	
Model	GP-510
Ignition System	Piezo electricity ignition system
Combustion System	Gas Heating System
Gas Type	Butane lighter gas
Max. Temp. Output	580°C (Soldering Iron) 625°C (Hot Air)
Refill Time	20 sec.
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	175mm
Weight	65g

REPLACEMENT TIPS		
GP-510RT-1C 	GP-510RT-2.4C 	GP-510RT-3.2C
GP-510RT-4.8C 	GP-510RT-1D 	GP-510RT-2.4D
GP-510RT-3.2D 	GP-510RT-4.8D 	GP-510CU
GP-510HT 	GP-510ST 	Must be used with the GP-510HT .

Long-life iron-plated tips.

A set of soldering iron, 3 tips, cleaner, stand, and case. **RoHS**

GAS-POWERED SOLDERING IRON SET
GP-510SET PORTASOL PRO PIEZO SET



- Controls equivalent power of 15-75W with the temperature adjuster.
- Replacement tip converts it to a hot air tool.

NOTE: Fill with gas before use.



Hot air Soldering 2.4mm Soldering 1.0mm

By connecting the enclosed shrink tip, shrink tube processing is easy.

INCLUDED ITEMS

Soldering iron, 2 Soldering tips (2.4mm, 1mm), Hot air tip, Tip cleaner, Iron stand, and Case

SOLDERING IRON	2 soldering tips: 1mm and 2.4mm. Ideal for repair of PCBs, communication cables, stained glass, models, vehicles, ships, and antennas.
Max tip temperature 580°C	
HOT AIR TOOL	Ideal for wiring heat-shrink-tube, vinyl-chloride welding, and applying cream solder.
Max temperature 625°C	

SPECIFICATIONS	
Model	GP-510SET
Ignition System	Piezo electricity ignition system
Combustion System	Gas Heating System
Gas Type	Butane lighter gas
Max. Temp. Output	580°C (Soldering Iron) 625°C (Hot Air)
Refill Time	20 sec.
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	175mm
Weight	65g

TIPS INCLUDED IN SET		
GP-510RT-1C 	GP-510RT-2.4C 	GP-510HT
GP-510ST 		
Must be used with the GP-510HT .		

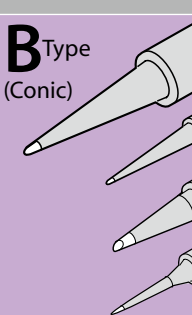
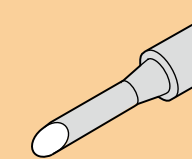
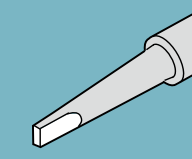
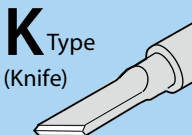
Long-life iron-plated tips.

YOUR BEST TIP

Custom tips are available. For industrial robots, improved productivity, cost cutting..., please contact a *goot* distributor.

Tip shape is crucial to soldering quality and efficiency. Here are our main tip shapes, and applicable works. Please refer to this table for your tip selection.

◎ Best ○ Good △ OK × NO

Spec		LEAD COMPONENTS				SMD		OTHERS					NOTE
		Condenser, Resistor, Small components	DIP, SIP, ICs	Lead wire	Connector, Switch	Flat IC	Condenser, Resistor, Small components	Large terminal	Small components, Fine lead wire	Narrow area	Small part	Large part	
B Type (Conic) 	B	◎	◎	◎	◎	△	△	○	△	△	○	△	General purpose
	LB longer slim	◎	○	◎	○	○	○	×	○	×	○	×	General purpose, small area
	BC with cut face	◎	◎	◎	◎	○	△	○	△	△	○	△	General purpose, moderately large area
	SB fine tip	○	○	○	○	◎	◎	×	◎	×	◎	×	General purpose, small heat load
C Type (with Slant column-cut) 	1C face approx. 1mm	△	△	△	○	◎	◎	×	◎	○	◎	×	Small heat load
	2C face approx. 2mm	○	△	○	○	△	△	△	△	◎	△	△	Moderately large area or harness
	3C face approx. 3mm		×	○	○	×	×	◎	×	◎	×	○	Large area or harness
	4C face approx. 4mm	×	×		×	×	×	◎	×	◎	×	◎	Large area or large heat load
	5C face approx. 5mm	×	×		×	×	×	◎	×	◎	×	◎	Large area or large heat load
D Type Flathead(-) 	0.8D tip line width approx. 0.8mm	○	○	○	○	◎	◎	×	○	△	◎	×	Small area or small heat load
	1.6D tip line width approx. 1.6mm	○	○	◎	○	△	◎	×	△	△	○	×	Small area or small heat load
	2D tip line width approx. 2mm	○		◎	◎	×	○	△	×	○	△	×	Small area or lead wire
	2.4D tip line width approx. 2.4mm		×	◎	◎	×	○	◎	×	○	×	○	Small area or lead wire
	3.2D tip line width approx. 3.2mm		×	◎	◎	×	○	◎	×	◎	×	◎	Small area or large heat load
K Type (Knife) 	5K width 5mm	×	×	×	×	◎	×	×	×	◎	×	△	For bridges

SOLDER POTS

SOLDER POTS

POT series

PCB DIPPING HOLDER

PCB-1

SOLDER POTS

■ Takes medium PCBs.
SOLDER POT [cast-iron bath]
POT-400C



LARGE BATH
For medium-sized PCBs

CAST-IRON BATH
Lead-free solder applicable

ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

REPLACEMENT PARTS / OPTIONS	
Heater (for Bottom) POT-400CHAH	Heater (for side) POT-400CHBH
Bath POT-400CP	

SPECIFICATIONS		
Model		POT-400C
Voltage		220-240V AC 50/60Hz
Power Consumption		4kW
Max. Temp.		400°C
Set Accuracy		$\pm\{(1.25\% \text{ of display temperature}) + 1^\circ\text{C}\}$
Heater		Sheath Heater
Control System		PID Control
Power Cord Length		3m
Solder Bath Material		Cast Iron
Max. Solder Volume		50kg
Dimensions	Bath Unit	602(W) × 165(H) × 427(D) mm
	Control Unit	175(W) × 122(H) × 260(D) mm
	Solder Bath	400(W) × 60(H) × 300(D) mm
Weight		43kg

NOTE: The weight does not include the cord.

■ Firmly holds the PCB.
PCB DIPPING HOLDER
PCB-1



● Holds the PCB firmly for dipping into the solder pot.

SPECIFICATIONS	
Model	PCB-1
Material	SUS
Applicable PCB size	Up to 250mm
Length	260mm
Holder width	55mm

Accurate temperature control
with PID control.



**SOLDER POT [Stainless bath]
POT-100C**



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Accurate temperature control
with PID control.



**SOLDER POT [Stainless bath]
POT-200C**



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Economical and erosion-
resistant cast-iron bath.



**SOLDER POT [cast-iron bath]
POT-103C**



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST-IRON BATH
Lead-free solder applicable

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Economical and erosion-
resistant cast-iron bath.



**SOLDER POT [cast-iron bath]
POT-203C**



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST-IRON BATH
Lead-free solder applicable

EASY HEATER REPLACEMENT
Separated structure of heater and bath

SPECIFICATIONS

Model	POT-100C	POT-103C	POT-200C	POT-203C
Voltage	110V,120V, 220V,240V AC 50/60Hz	110-120V, 220-240V AC 50/60Hz	110V,120V,220V,240V AC 50/60Hz	110-120V, 220-240V AC 50/60Hz
Power Consumption	440W	900W	650W	1400W
Max. Temp.	350°C	450°C	400°C	450°C
Set Accuracy	$\pm((1.25\% \text{ of display temperature})+1^{\circ}\text{C})$			
Heater	Nichrome Heater	Sheath Heater	Nichrome Heater	Sheath Heater
Control System	PID Control			
Power Cord Length	1.3m	1.5m	1.3m	1.5m
Solder Bath Material	SUS316	Cast Iron	SUS316	Cast Iron
Max. Solder Volume	Approx. 5.5kg	Approx. 3.5kg	Approx. 9.5kg	Approx. 7kg
Dimensions	360(W)×124(H)×220(D)mm		450(W)×124(H)×220(D)mm	
Solder Bath Dimensions	91(W)×60(H)×135(D)mm	82(W)×53(H)×110(D)mm	180(W)×60(H)×130(D)mm	173(W)×53(H)×108(D)mm
Weight	5kg	8kg	7kg	11kg

NOTE: The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

POT-100C Heater POT-100CH	POT-200C Heater POT-200CH-S	POT-100C Bath (Stainless) POT-100CP	POT-200C Bath (Stainless) POT-200CP
POT-103C Heater POT-103CHA POT-103CHB	POT-203C Heater POT-203CHA POT-203CHB	POT-103C Bath (Cast Iron) POT-103CP	POT-203C Bath (Cast Iron) POT-203CP

SOLDER POTS

Economical and erosion-resistant cast-iron bath.



SOLDER POT [cast-iron bath] POT-50C

ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST IRON BATH
Lead-free solder applicable



- Lead-free applicable bath. Perfect for pre-tinning of transformer leads or small PCBs.
- Accurate PID temperature control. (sensor feedback ON/OFF control available)
- Temperature adjustable up to 500°C.
- Assured temperature control with the digital key-lock function.
- Safety housing design.

SPECIFICATIONS

Model	POT-50C	
Voltage	110V-130VAC 50/60Hz	220V-240VAC 50/60Hz
Power Consumption	470-610W	370-430W
Max. Temp.	500°C	
Heater	Ceramic Heater	
Control System	PID Control	
Power Cord Length	1.5m Inlet type	
Solder Bath Material	Cast Iron	
Max Solder Volume	Approx. 850g	
Unit Dimensions	174(W)×142(H)×285(D) mm	
Solder Bath Dimensions	50(W) × 50(H) × 50(D) mm	
Weight	3kg	

NOTE: The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

Heater
POT-50CH

Bath
POT-50CP

Temperature control knob for optimal dipping.

SOLDER POT POT-21C/23C/28C



POT-21C

Spatula included.



POT-23C

Spatula included.



POT-28C

Spatula included.

- Zero-cross control drastically reduces output noise (Time-proportioning system).
- LED pilot lamp lights when heater is ON.

NOTE: No sensor feedback system, so temperature may fluctuate +/- approx.10%.

POT-21C	POT-23C	POT-28C
Suitable for pre-tinning of large terminals, urethane wires, connectors, and large lead wires.	Lead-free applicable. No erosion with a ceramic bath. Suitable for pre-tinning of relatively large parts.	Lead-free applicable. Longer life with a cast-iron bath. Suitable for pre-tinning of relatively large parts.

REPLACEMENT PARTS / OPTIONS

POT-21C/23C/28C Heater
POT-21CH

POT-21C Bath
POT-21CP

POT-23C Bath
POT-23CP

POT-28C Bath
POT-28CP

SPECIFICATIONS

Model	POT-21C	POT-23C	POT-28C
Voltage	110V, 120V, 220V, 240V AC 50/60Hz		
Power Consumption	130W		
Bath Temperature	270-530°C		
Melting Time (at max. setting)	Approx. 10 mins.		
Heater	Nichrome Heater		
Control System	Time Proportioning Control		
Power Cord	1.3m		
Solder Bath Material	Stainless Steel	Ceramic	Cast Iron
Solder Capacity	Approx. 300g		
Dimensions	90(W)×87(H)×150(D)mm	90(W)×91(H)×150(D)mm	90(W)×89(H)×150(D)mm
Internal Pot Dimensions	ø36 × 36(D) mm	ø31 × 39(D) mm	ø34 × 32(D) mm
Weight	720g		800g

NOTE: The weight does not include the cord.

SURFACE MOUNT/ SMT PRODUCTS

HOT-AIR REWORK STATIONS	<i>XFC series</i>
HANDPIECE HOLDERS	<i>XK series</i>
BOARD HOLDERS	<i>XU series</i>
PREHEATERS	<i>XPR series</i>
SMT REWORK REPAIR SYSTEM	<i>GSR series</i>
HOT-AIR PENCIL	<i>XHP-110</i>
SOLDERING TWEEZERS	<i>XST-80</i>
SOLDERING TWEEZERS UNIT	<i>XST-80G</i>
REBALL KIT	<i>XRB series</i>

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

SURFACE MOUNT / SMT PRODUCTS

Equipped with Auto Profile Mode. Handles BGAs, CSPs and all SMDs using the preheater.

HOT-AIR REWORK STATIONS XFC-300/301



Nozzles sold separately.



AUTO PROFILE Can be set to the desired profile without a test	VARIOUS PROFILES AVAILABLE Up to 19 profiles, each with 5 zones
ACCURATE TEMPERATURE CONTROL With PID control	ON/OFF INTERFACE Controls external preheater
HAND OPERATION Heater and vacuum switches on the handpiece	FORCED COOL-DOWN On all zones with cool key

●Either Auto profile or Repeat Profile function (PAT.). ●5 zone profiles available: **PREHEAT 1, PREHEAT 2, PREHEAT 3, REFLOW**, and **COOL**. ●Up to 19 profiles* can be saved for each of the 5 zones. ●One profile can be registered for HAND Mode. ●Accurate PID temperature control. ●Heater and Vacuum switches located on the handpiece for easy control. ●ON/OFF interface with Preheater (connection cable optional). ●Keypad lock and Offset functions. ●Instant cool down on all zones by pressing the COOL key. ●Handpiece with removed SMD can be lifted automatically after the reflow process is finished. (XFC-301 only)

*separate profiles with specific temperature and time settings can be pre-programmed for each of the 5 Zones

Auto Cool-Down function to protect the heater.
Handles QFPs, PLCCs, SOLs.

HOT-AIR REWORK STATION XFC-110



Nozzles sold separately.



TEMPERATURE CONTROL With ON/OFF control	DIGITAL DISPLAY Easy temperature control
VACUUM PICK-UP Highly accurate	FLOW METER Easy air-flow control
AUTO COOL-DOWN Protects the heater	

●Temperature management using ON-OFF control. ●Digital temperature display for easy temperature management. ●Vacuum pickup function, Flow meter for easy airflow management. ●Auto Cool Down function to protect heater.

An economic solution with maximum heat capacity. Handles BGAs, CSPs and all SMDs.

HOT-AIR REWORK STATION XFC-210



Nozzles sold separately.



ACCURATE TEMPERATURE CONTROL With PID control	ON/OFF INTERFACE Controls external preheater
HAND OPERATION Heater and vacuum switches on the handpiece	FORCED COOL-DOWN On all zones with cool key
VARIOUS PROFILES AVAILABLE Up to 19 profiles, each with 5 zones	

●5 zone profiles available: **PREHEAT 1, PREHEAT 2, PREHEAT 3, REFLOW**, and **COOL**. ●Up to 19 profiles* can be saved for each of the 5 zones. One profile can be registered for HAND Mode. ●Accurate P temperature control. ●Heater and Vacuum switches located on the handpiece for easy control. ●ON/OFF interface with Preheater (connection cable optional). ●Keypad lock and Offset functions. ●Instant cool down on all zones by pressing the COOL key.

*individual profiles with specific temperature and time settings can be pre-programmed for each of the 5 Zones

Basic SMT rework station.
Handles QFPs, PLCCs, SOLs.

HOT-AIR REWORK STATION XFC-100



Nozzles sold separately.



ERGONOMIC HANDPIECE Prevents fatigue
--

●Handles QFPs, PLCCs, SOLs.

XFC series FEATURES TABLE

FUNCTION	XFC-301	XFC-300	XFC-210	XFC-110	XFC-100
Auto-lift	✓	—	—	—	—
5-zone profiles	✓	✓	✓	—	—
Auto Profile mode	✓	✓	—	—	—
Normal Profile Mode	✓	✓	✓	—	—
Hand mode	✓	✓	✓	✓	✓
Saving of profile mode and hand mode	✓	✓	✓	—	—
PID control	✓	✓	—	—	—
ON/OFF and vacuum control on handpiece	✓	✓	✓	—	—
Interface to control preheater	✓	✓	✓	—	—
Kelock, Offset	✓	✓	✓	—	—
Forced cool-down	✓	✓	✓	✓	✓
Vacuum pick-up	✓	✓	✓	✓	—
Digital display	✓	✓	✓	✓	—
Flow meter	✓	✓	✓	✓	—
Auto cool-down	—	—	✓	✓	—
Ergonomic handpiece	✓	✓	✓	✓	✓

SPECIFICATIONS

Model	XFC-301	XFC-300	XFC-210	XFC-110	XFC-100
Voltage	220–240V AC 50/60Hz		220V, 230V, 240V AC 50/60Hz		110–130V, 220–240V AC 50/60Hz
Power Consumption	400–460W		470W		420–470W, 380–420W
Power Cord Length	1.5m (3 core cord) Inlet type				1.1m (3 core cord) ground plug
Temperature Setting Range	50–550°C			150–550°C	150–450°C
Insulation Resistance	Over 10MΩ (500V DC)				

Station Unit

Model	XFC-301	XFC-300	XFC-210	XFC-110	XFC-100
Output Voltage	220–240V AC		220V, 230V, 240V AC		110–130V, 220–240V AC
Air flow Meter	Equipped				–
Air flow Volume	5–25L /min		5–23L /min	5–25L /min	5–20L /min
Auto-lift function	Included	-			
Modes	3 (Profile-Normal, Profile-Auto, Hand)		3 (Profile-Flat, Profile-Slope, Hand)	1 (Hand)	
Temperature Profiles	5 Zones (Temperature and Time)			–	
Profile Memory	(Auto, Normal)×19, HAND×1		(Flat,Slope)×19, HAND×1	–	
Dimensions	200(W) ×230(H) ×265(D)mm		182(W) ×179(H)× 263(D)mm		107(W) ×177(H)×227(D)mm
Weight	7.6kg (w/o cord)		8.4kg (w/o cord)	7.8kg (w/o cord)	4.6kg (w/o cord)
Accessory	Connection Cable with Preheater, Handpiece Holder, XVCW-SET			Handpiece Holder, XVCW-SET	Handpiece Holder

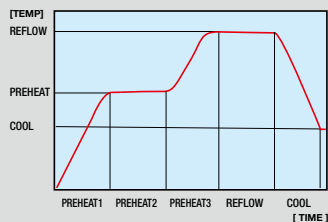
Handpiece Unit

Model	XFC-301	XFC-300	XFC-210	XFC-110	XFC-100	
Voltage	220-240V AC		220V, 230V, 240V AC		110-130V AC	220-240V AC
Power Consumption	370-430W		400W		400-450W	300-400W
Heater	Nichrome Heater					
Hose length between Handpiece and Control Unit	1m					
Vacuum Pickup	Integrated into Handpiece				—	
Length	220mm (w/o cord)					
Weight	180g (w/o nozzle, cord)					

MODES

NORMAL	Create your own profiles for the 5 zones.
AUTO	Can be set to the desired profile without a test. (PAT.) XFC-301/300 only
HAND	Configure temperature settings for manual rework.

XFC-301/300 AUTO PROFILE EXAMPLE



REPLACEMENT PARTS / OPTIONS

Heater	Vacuum Cup ø6mm
XFC-100H	XVCW-6
XFC Heater Pipe	Vacuum Cup ø8mm
XFC-100HP	XVCW-8
Vacuum Cup Set	Vacuum Cup ø10mm
XVCW-SET	XVCW-10

Vacuum Cup



SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

HAND TOOLS

XFC Series Optional Nozzles (PAT.)

XNSG series (for SO, SOL)

P / N	A		D		Applicable Package
	inch	mm	inch	mm	
XNSG 4.4 × 10	0.394	10	0.189	4.8	SO16
XNSG 5.6 × 13	0.591	15	0.224	5.7	SSOP8T
XNSG 7.6 × 15	0.630	16	0.283	8.2	SOL20/26, TSOP20/24
XNSG 7.6 × 18	0.748	19	0.283	8.2	TSOP24
XNSG 7.6 × 12.7	0.472	12	0.283	8.2	SOL20, TSOP28
XNSG 19 × 8	0.315	8	0.748	19.0	TSOP32
XNSG 8.6 × 18	0.748	19	0.343	8.7	TSOP28/32
XNSG 18.5 × 12	0.591	15	0.728	19.5	TSOP40/48
XNSG 13 × 28	1.142	29	0.531	13.5	PSOP44
XNSG 4.4 × 5	0.197	5	0.189	4.8	S08

XNSG series (for SOJ)

P / N	A		D		Applicable Package
	inch	mm	inch	mm	
XNSG 15 × 8.2	0.591	15	0.323	8.2	SOJ20

XNPG series (for PLCC)

P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNPG 7.3×12.5	0.272	6.9	0.354	9	0.272	6.9	0.551	14	PLCC 7.3 X 12.5
XNPG 11.5×11.5	0.394	10	0.512	13	0.394	10	0.512	13	PLCC 28
XNPG 11.5×14	0.591	15	0.591	15	0.394	10	0.512	13	PLCC 11.5 X 14
XNPG 17.5×17.5	0.591	15	0.728	18.5	0.591	15	0.728	18.5	PLCC 44
XNPG 20 × 20	0.748	19	0.827	21	0.748	19	0.827	21	PLCC 52
XNPG 25 × 25	0.945	24	1.024	26	0.945	24	1.024	26	PLCC 68
XNPG 30 × 30	1.142	29	1.220	31	1.142	29	1.220	31	PLCC 84

Custom nozzles are available. Please contact a **goot** distributor.

XNQG series (for QFP, BQFP)

P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNQG 12 × 12	0.472	12	0.551	14	0.472	12	0.551	14	QFP64, QFP48, QFP80, BQFP28
XNQG 14 × 14	0.591	15	0.677	17.2	0.591	15	0.677	17.2	SQFP100, TQF100
XNQG 14 × 20	0.591	15	0.665	16.9	0.827	21	0.906	23	SQFP12, QFP80, QFP100
XNQG 16 × 16	0.630	16	0.826	21	0.629	16	0.826	21	BQFP100T25, QFPT63
XNQG 17.5×17.5	0.591	15	0.728	18.5	0.591	15	0.728	18.5	BQFP84
XNQG 24 × 24	0.827	21	0.953	24.2	0.827	21	0.953	24.2	BQFP132, FQFP176
XNQG 28 × 28	1.142	29	1.220	31	1.142	29	1.220	31	QFP128, SQFP208
XNQG 32 × 32	1.220	31	1.315	33.4	1.220	31	1.315	33.4	BFP184T, FQFP408
XNQG 37 × 37	1.220	31	1.457	37	1.220	31	1.457	37	BQFP196
XNQG 40 × 40	1.535	39	1.654	42	1.535	39	1.654	42	BQFP244

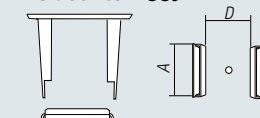
XNBG series (for BGA)

P / N	A		Applicable Package
	inch	mm	
XNBG 8 × 8	0.393	10	BGA16, BGA25
XNBG 12 × 12	0.551	14	BGA49, BGA64
XNBG 13 × 13	0.590	15	BGA49, BGA64
XNBG 15 × 15	0.669	17	BGA81, BGA100
XNBG 17 × 17	0.748	19	BGA121
XNBG 19 × 19	0.787	20	BGA144, BGA121
XNBG 23 × 23	0.984	25	BGA169
XNBG 27 × 27	1.142	29	BGA324, BGA225, BGA289
XNBG 35 × 35	1.457	37	BGA529, BGA484
XNBG 38 × 38	1.575	40	BGA576, BGA625
XNBG 40 × 40	1.654	42	BGA625, BGA676

XNSG series



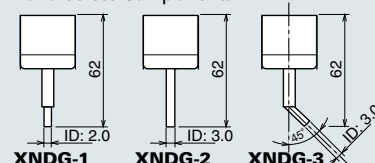
XNSG series



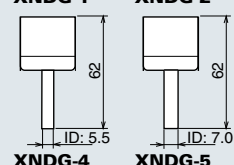
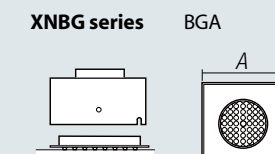
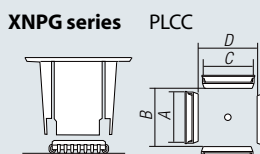
XNQG series



For Discrete Components



Vacuum pick-up cup for XFC-301/300/210/110



Fixes the XFC series handpiece securely.

HANDPIECE HOLDER XK-1

RoHS



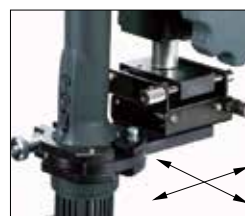
- Holder for XFC handpiece to attach to XPR-600/1000 preheater.

MODEL	XK-1
Dimensions	Holder : 330(L) x 110(W) x 160(H)mm Column : ø28 x 390mm
Weight	Holder :1.5kg / Column:480g

Secure fixing and micro-adjustment of the XFC series handpiece.

HANDPIECE HOLDER XK-2

RoHS



- Allows micro-adjustment of the XFC series handpiece while holding an SMD. Makes mounting work easy.

MODEL	XK-2
X direction adjustable range	20mm
Y direction adjustable range	20mm
Control knob pitch	0.8mm per one complete turn
Dimensions	Holder : 330(L) x 110(W) x 160(H)mm Column : ø28 x 390mm
Weight	Holder : 1.8kg / Column : 480g

Smooth motion. Easy mounting and removing.

BOARD HOLDERS XU-1/XU-1S



MODEL	XU-1	XU-1S
Max. PCB size	305mm x open side	
Dimensions	265(W)×36(H)×265(D)mm	
Extended	400(W)×36(H)×265(D)mm	
Weight	840g	900g



Heating up by the large air-output prevents damage to PCBs. Handles medium PCBs.

PREHEATER XPR-600



- Cool PCBs with fan mode, reducing process time.
- Instant upgrade when combined with XFC series rework station.
- Sensor feedback temperature control.
- Digital display shows setting temperature.
- XU series (sold separately) can be fixed.



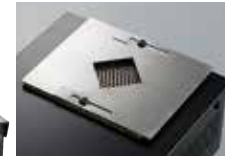
XPR-600

High-powered heater. Best for preheating multi-layered PCBs. Handles small multi-layered PCBs.

PREHEATER XPR-610



- Small preheater with a high-powered heater.
- Heating area can be changed to fit the PCB size.
- Comes with simple board holder.
- Accurate temperature control with PID control.
- Digital temperature display.



Hot Air Vent Adjusters

XPR-610

Large-capacity IR heater prevents damage to PCBs. Handles large multi-layered PCBs.

PREHEATER XPR-1000



- Large heating area quickly provides uniform heat on large multi-layered PCBs.
- PID control achieves precise temperature control for lead-free solder.
- Comes with anti-warping tool.
- Instant upgrade when combined with XFC series rework station.



XPR-1000

SPECIFICATIONS

MODEL	XPR-600	XPR-610	XPR-1000
Voltage	110–120V, 220–240V AC 50/60Hz		220V, 240V AC 50/60Hz
Power Consumption	560–650W, 530–630W		2,100W
Power Cord Length	1.5m (3 core cord) Inlet type		3m (3 core cord) w/o plug
Heater	Nichrome Heater		IR
Temperature Control System	ON-OFF Control	PID Control	
Temperature Setting Range	100–300°C	Room temperature–300°C	
Heating Area	58 x 58mm	Min. 10 x 10mm /Max. 58 x 58mm	270x270mm
Air Flow (Fan Performance)	0.23m ³ /min	0.23m ³ /min	—
Recommended Holder	XU-1/XU-1S	Mini PCB Holder Assy (included)	Board Holder (included)
Max. PCB size	305mm x open side	150mm x open side	424 x 460mm (Max.)
Dimensions	266(W) x 90(H) x 413(D)mm	180(W) x 90(H) x 256(D)mm	508(W) x 145(H) x 610(D)mm
Weight	5.1kg	2.8kg	16.6kg

SURFACE MOUNT / SMT PRODUCTS

For large packages, large boards, and multi-layered PCBs. Handles BGAs, CSPs, QFPs, and all SMDs.

SMT REWORK REPAIR SYSTEM GSR-302

RoHS



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-302
Preheater	XPR-1000
Hot-Air Rework Station	XFC-301
Handpiece Holder	XK-2
Board Holder	Included with XPR-1000

Handles BGAs, CSPs, QFPs, and all SMDs.

SMT REWORK REPAIR SYSTEM GSR-301/300

RoHS



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-301	GSR-300
Preheater	XPR-600	XPR-600
Hot-Air Rework Station	XFC-301	XFC-300
Handpiece Holder	XK-2	XK-2
Board Holder	XU-1	XU-1

For large packages, large boards, and multi-layered PCBs. Handles BGAs, CSPs, QFPs, and all SMDs.

SMT REWORK REPAIR SYSTEM GSR-212

RoHS



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-212
Preheater	XPR-1000
Hot-Air Rework Station	XFC-210
Handpiece Holder	XK-2
Board Holder	Included with XPR-1000

Handles BGAs, CSPs, QFPs, and all SMDs.

SMT REWORK REPAIR SYSTEM GSR-210

RoHS



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-210
Preheater	XPR-600
Hot-Air Rework Station	XFC-210
Handpiece Holder	XK-2
Board Holder	XU-1

Handles QFPs, SOLs, and discrete components.

SMT REWORK REPAIR SYSTEM GSR-110

RoHS



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-110
Preheater	XPR-600
Hot-Air Rework Station	XFC-110
Handpiece Holder	XK-1
Board Holder	XU-1

HOT-AIR REWORK STATIONS p.50



XFC-300/301

XFC-210

XFC-100

XFC-110

HANDPIECE HOLDERS p.52



XK-1

XK-2

PREHEATERS p.53



XPR-610

XPR-600

XPR-1000

BOARD HOLDERS p.53



XU-1

XU-1S

Easy-to-use light grip, easy reworking with hot-air control.

HOT-AIR PENCIL

XHP-110

RoHS

ANTI
STATIC

- Simple functions and design.
- Vacuum pick-up function is available by connecting the optional XVP-10.

Nozzle holder included
Nozzles sold separately.



REPLACEMENT PARTS / OPTIONS

Vacuum pickup

XVP-10



SPECIFICATIONS

Model	XHP-110
Voltage	110–120V, 220–240V AC 50/60Hz
Power Consumption	170–210W
Power Cord Length	1.2m
Temperature Setting Range	200–420°C
Air flow Volume	0.5–4.5l /min.
Max. Vacuum Pressure	-0.018MPa (-130mmHg)
Insulation Resistance	Over 100MΩ (500V DC)
Accessory	Nozzle holder, Iron holder, Nozzle XNH-20

Station Unit

Input Voltage	110–120V, 220–240V AC 50/60Hz
Dimensions	107(W) × 177(H) X 227(D)mm
Weight	Approx. 3.6kg (w/o cord)

Soldering Unit

Voltage / Power Consumption	110–120V, 220–240V AC /158W
Cord length	1m : between Handpiece and Control Unit
Length	225mm (with XNH-20 w/o cord)
Weight	Approx. 41g (w/o cord)

NOZZLE

XNH-06	XNH-10	XNH-15
XNH-20	XNH-30	XNH-90
Standard		
XNH-120	XNH-150	

SOLDERING
SYSTEM

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

Multifunction Tweezers Unit

SOLDERING TWEEZERS UNIT

XST-80G **NEW**

RoHS

ANTI
STATIC

GRIP WITH INTEGRATED TIP
Allows less deviation of both tips.

MULTIFUNCTION TWEEZERS UNIT
Calibration, Sleep, Key Lock, etc..

ERGONOMIC GRIP DESIGN
Stroke adjustment for handling various sizes of parts. (PAT.P)

TIP REPLACEMENT WITHOUT TOOLS
Easy to replace a hot tip without any other tools.



Still under development; specifications may change.
Not available in USA, Canada, France, UK and Germany.

High-accuracy design with minimum tip deviation.

For use with RX-822AS/852AS/802AS.

NOTE: The tweezers unit **XST-80G** must be used with our **RX-822AS/852AS/802AS**. Tweezers unit does not work alone.



Coming Soon

APPLICABLE MODELS - SAMPLE CONFIGURATION

TEMPERATURE-CONTROLLED, LEAD-FREE
DUAL-PORT SOLDERING STATION

RX-822AS **p.12**



RX-822AS can use both soldering unit and tweezers simultaneously
Shut down & Sleep functions

TEMPERATURE-CONTROLLED
LEAD-FREE SOLDERING STATION

RX-852AS **p.14**



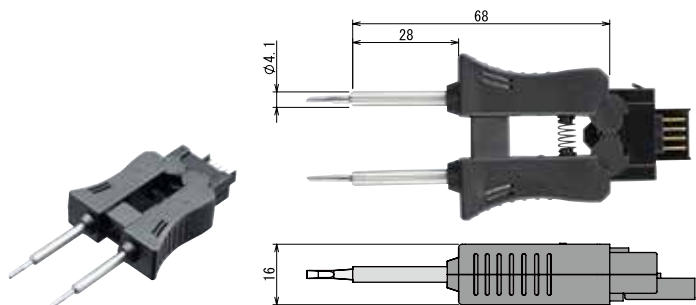
TEMPERATURE-CONTROLLED
LEAD-FREE SOLDERING STATION

RX-802AS **p.16**



SPECIFICATIONS

Model	XST-80G
Voltage	24V AC
Power Consumption	Approx. 70W
Cord Length	1.2m
Length	118mm (w/o cord)
Weight	55g (w/o cord)



REPLACEMENT PARTS / OPTIONS

XST-80HRT-0.5	XST-80HRT-0.5NW	XST-80HRT-2	XST-80HRT-1	XST-80HRT-1C

SOLDERING
SYSTEM

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

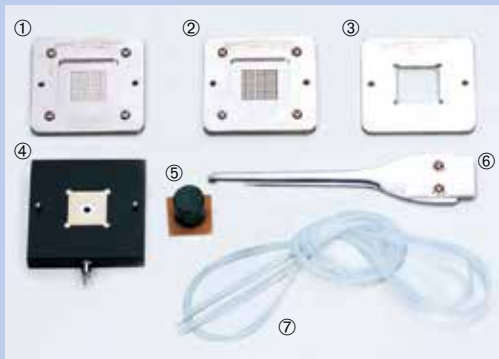
HEATED TOOLS

HAND TOOLS

Reball Kit allows replacement of solder balls on a BGA.



REBALL KIT
XRB series



①	Metal Mask (Mask Plate included)
②	Ball Guide (Mask Plate included)
③	Guide Plate
④	Base
⑤	Tamper
⑥	Spatula
⑦	Hose (to connect the Base with the vacuum source)

XRB Reball Kits are customized for specific BGAs. Please send us the technical drawings of your BGA.

Also required to reball components: Hot-air rework station (XFC-110/210/300/301), soldering iron, desoldering wick, cream solder, and solder balls. (Sold separately.)



After reballing



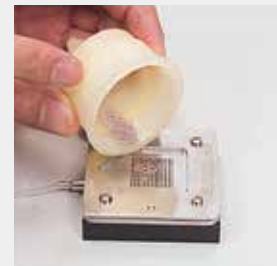
1. Remove the existing solder balls on the BGA chip with a soldering iron and a desoldering wick.



2. Set the Guide Plate on the base, and hold the BGA with the vacuum source.



3. Set the Metal Mask. Use the spatula to apply the cream solder to all the holes.



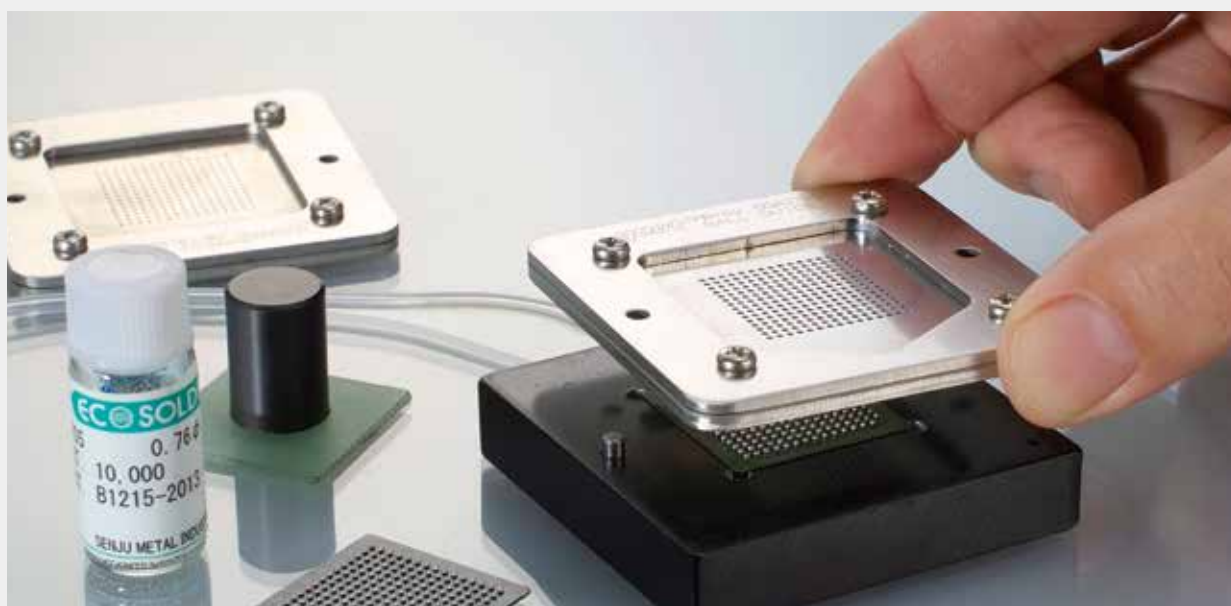
4. Mount the Ball Guide. Pour the solder balls into the holes.



5. Press the solder balls into the cream solder with the tamper.



6. Take out the BGA from the base, and apply heat.



DESOLDERING PRODUCTS

SERVICE STATIONS	SVS-800AS/580AS/500AS
AUTOMATIC DESOLDERING STATIONS	TP-280AS /200AS
PORTABLE DESOLDERING GUNS	TP-100/100AS
DESOLDERING WICKS	CP/CPN series
DESOLDERING SUCKERS	GS series

DESOLDERING PRODUCTS SERVICE STATIONS

Omnifunctional machine for soldering, desoldering and reworking.

SERVICE STATION
SVS-800AS



INDEPENDENT PUMPS

Desoldering and reworking operate simultaneously

400% MORE SUCTION CAPACITY

With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR

A wide range for terminals, connectors and flat ICs (soldering & desoldering)

SUPERIOR TEMPERATURE-CONTROL CIRCUIT

To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT

Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER

Makes changing the filter easy



REWORK UNIT

The temperature can be set to max 550°C.

SOLDERING UNIT

Good for a wide range of soldering work with 70W heater.

DESOLDERING UNIT

Instant desoldering with open-valve mechanism. (Please refer to the next page.)

INDIVIDUAL POWER SWITCHES

Along with the main power switch, there are switches for soldering, desoldering, and reworking.



Nozzles sold separately.



ST-76 soldering iron stand (included)

PRODUCT SPECIFICATIONS / FUNCTIONS



OPEN-VALVE MECHANISM

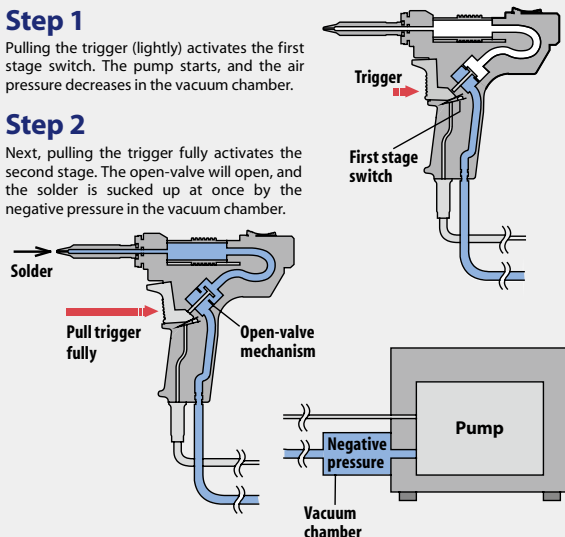
Two-stage trigger switch (PAT.P)

Step 1

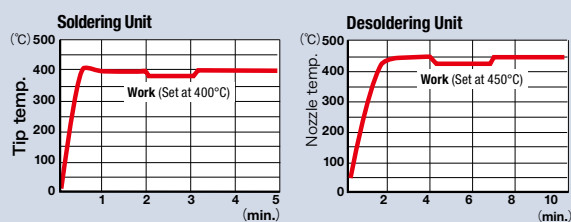
Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.

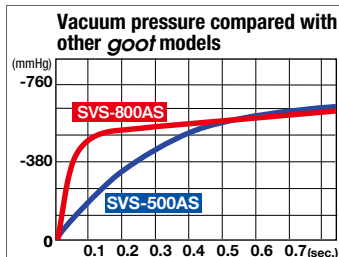


TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



Work (Set at 400°C), Work (Set at 450°C) Desoldering/Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip, TP-100N-10 nozzle)

The open-valve allows the device to reach vacuum pressure of -0.06MPa (approx. -450mmHg) in only 0.1second. (about 4 times faster than our SVS-500AS).



SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

SVS-500AS

SVS-800AS



SPECIFICATIONS

MODEL		SVS-800AS
Voltage		220-240V AC 50/60Hz
Power Consumption		670-760W
Power Cord Length		1.5m Inlet type
Temp. Setting Range	Desoldering Unit	250-450°C
	Soldering Unit	200-480°C
	Rework	150-550°C
Insulation Resistance		Over 10MΩ(500V DC)
Vacuum Pump System		Diaphragm system
Vacuum		- 0.08MPa (-600mmHg)
Air Flow		5-25L /min
Accessories		Cleaning pin TP-100CP-13 / Soldering iron stand ST-76
Total Weight		9.3kg

CONTROL BOX

Output Voltage	220-240V AC
Dimensions	405(W) × 240(H) × 235(D)mm
Weight	8.4kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220 x 155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-S5

SOLDERING UNIT

Input Voltage/Power Consumption	220-240V AC / 70W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Nozzle Length	190mm (with PX-2RT-B, w/o cord bushing)
Weight	70g (with PX-2RT-B, w/o cord)
Standard Tip	PX-2RT-B

REWORK UNIT

Input Voltage/Power Consumption	220-240V AC / 370-430W
Heater	Nichrome Heater
Hose length between Handpiece and Control Unit	1m
Length	220mm (w/o cord)
Weight	180g (w/o nozzle, cord)

This machine does not have vacuum pickup function.

For replacement tips, nozzles, and optional parts, refer to p.52 & p.67

SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

DESOLDERING PRODUCTS SERVICE STATIONS

Desoldering in an instant, with reduced solder residue! Combines desoldering gun and temperature-controlled soldering iron in one unit.

SERVICE STATION
SVS-580AS



400% MORE SUCTION CAPACITY
With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

SVS-500AS



SVS-580AS



OPEN-VALVE MECHANISM

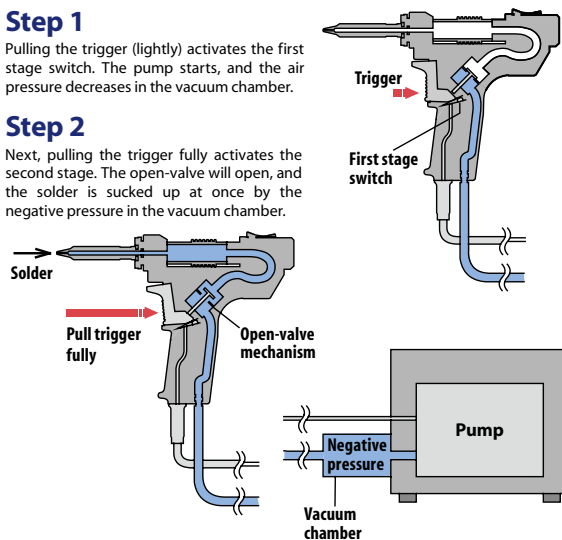
Two-stage trigger switch (PAT.P)

Step 1

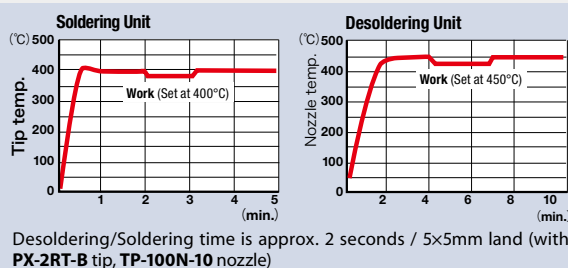
Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.

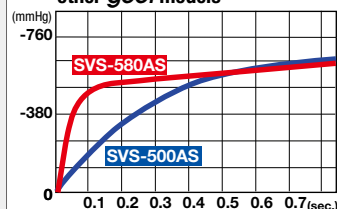


TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



The open-valve allows the device to reach vacuum pressure of -0.06MP (approx.-450mmHg) in only 0.1second. (about 4 times faster than our SVS-500AS).

Vacuum pressure compared with other goot models



SPECIFICATIONS

MODEL	SVS-580AS
Voltage	110V,120V, 220-240V AC 50/60Hz
Power Consumption	200W (110V,120V) 270-300W (220-240V)
Power Cord Length	1.5m
Temperature	Desoldering Unit 250-450°C
Setting Range	Soldering Unit 200-480°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-13 Soldering iron stand ST-76
Total Weight	4.0kg (w/o cord)

CONTROL BOX

Output Voltage	110V,120V, 220-240V AC
Dimensions	205(W) x 170(H) x 160(D) mm
Weight	3.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-120V, 220-240V AC 85W
Heater	Ceramaic Heater
Cord Length	1.2m
Dimensions	220 x 155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-S5

SOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC 70W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	190mm (with PX-2RT-B w/o cord bushing)
Weight	70g (with PX-2RT-B w/o cord)
Standard Tip	PX-2RT-B

For replacement tips, nozzles, and optional parts, refer to p.67

ST-76 soldering iron stand
(included)



Combines desoldering gun and temperature-controlled soldering iron in one unit.

SERVICE STATION
SVS-500AS



POWERFUL VACUUM

Everything from through-hole to multi-layered PCB

CERAMIC HEATER WITH INTERNAL SENSOR

A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT

To keep the temperature constant during desoldering

REPLACEABLE CARTRIDGE FILTER

Makes changing the filter easy

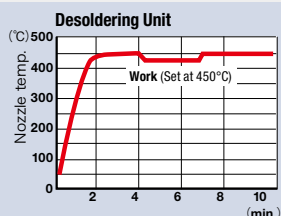
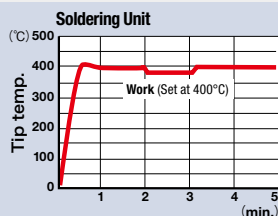
SOLDERING UNIT

●Stable temperature with excellent heat speed & heat recovery. ●Good for a wide range of soldering work, for terminals, connectors, and flat ICs.

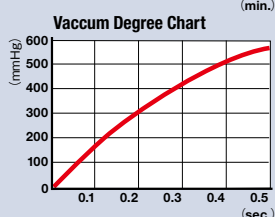
DESOLDERING UNIT

●Built-in powerful and compact twin pump. ●When trigger is pulled, the heater heats up forcibly, reducing temperature decrease. ●After trigger release, the pump operates for approx. 0.5 seconds more, reducing solder clogs.

TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



Desoldering/Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip, TP-100N-10 nozzle)



SPECIFICATIONS

MODEL	SVS-500AS
Voltage	110V,120-130V,220-240V AC 50/60Hz
Power Consumption	200W (110V,120-130V) 270-300W (220-240V)
Power Cord Length	1.5m
Temperature	Soldering Unit 250-450°C
Setting Range	Desoldering Unit 200-480°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Total Weight	4.0kg

CONTROL BOX

Output Voltage	110V,120-130V,220-240V AC
Dimensions	205(W) x 170(H) x 160(D) mm
Weight	3.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220 x 155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-10

SOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 70W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	190mm (with PX-2RT-B w/o cord bushing)
Weight	70g (with PX-2RT-B w/o cord)
Standard Tip	PX-2RT-B

For replacement tips, nozzles, and optional parts, refer to p.67

ST-76 soldering iron stand (included)



DESOLDERING PRODUCTS AUTOMATIC DESOLDERING STATIONS

New open-valve mechanism achieves unrivalled vacuum power and start-up speed.

AUTOMATIC DESOLDERING STATION TP-280AS



400% MORE SUCTION CAPACITY
With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

TP-200AS

TP-280AS



OPEN-VALVE MECHANISM

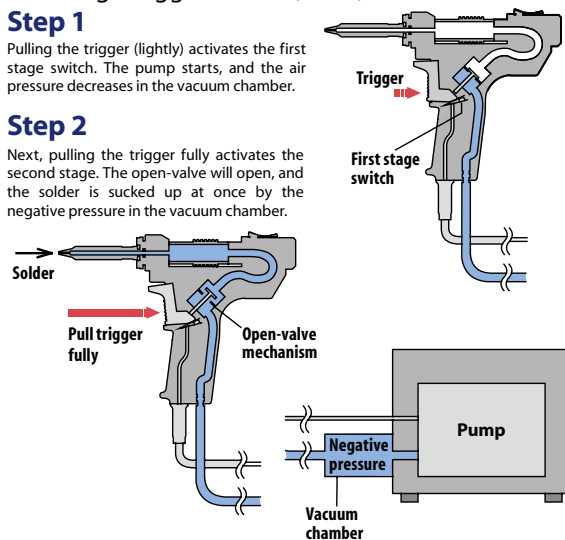
Two-stage trigger switch (PAT.P)

Step 1

Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.



SPECIFICATIONS

MODEL	TP-280AS
Voltage	110V,120V, 220-240V AC 50/60Hz
Power Consumption	130W (110V,120V) 170-200W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Total Weight	Approx. 2.9kg (w/o cord, hose)

CONTROL BOX

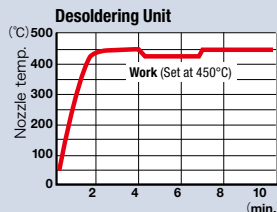
Output Voltage	110V, 120V, 220-240V AC
Dimensions	95(W)x205(H)x256(D)mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-120V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220x155mm
Weight	250g (w/o hose)
Standard Nozzle	TP-100N-S5

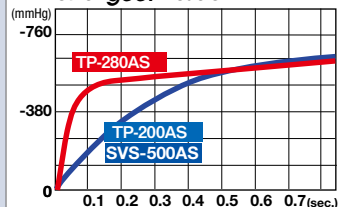
NOZZLE TEMPERATURE-RECOVERY FEATURES

Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip)



The open-valve allows the device to reach vacuum pressure of -0.06MP (approx.-450mmHg) in only 0.1second. (about 4 times faster than our TP-200AS).

Vacuum pressure compared with other goot models



For replacement nozzles, and optional partss, refer to p. 67

ST-76 soldering
iron stand
(included)



Perfect for desoldering through-hole and multi-layered PCBs.

AUTOMATIC DESOLDERING STATION TP-200AS

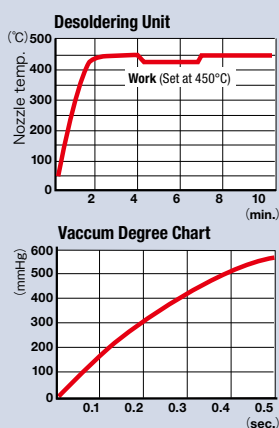


POWERFUL VACUUM

● Built-in powerful and compact twin pump. ● When trigger is pulled, the heater heats up forcibly, reducing temperature decrease. ● After trigger release, the pump operates for approx. 0.5 seconds more, reducing solder clogs.

NOZZLE TEMPERATURE-RECOVERY FEATURES

Desoldering time is approx. 2 seconds / 5x5mm land (with TP-100N-10 nozzle)



POWERFUL VACUUM
Everything from through-hole to multi-layered PCB

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SPECIFICATIONS

MODEL	TP-200AS
Voltage	110V, 120-130V, 220-240V AC 50/60Hz
Power Consumption	130W (110V, 120-130V) 170-200W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100MΩ (500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Weight	Approx. 2.9kg (w/o cord, hose)

CONTROL BOX

Output Voltage	110V, 120-130V, 220-240V AC
Dimensions	95(W)x205(H)x256(D)mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220x155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-10

For replacement nozzles, and optional partss, refer to p. 67

ST-76 soldering
iron stand
(included)



DESOLDERING PRODUCTS PORTABLE DESOLDERING GUNS

Handy, portable Desoldering Gun with combined temperature-control circuit and desoldering mechanism

PORTABLE DESOLDERING GUNS TP-100/100AS



POWERFUL VACUUM
Everything from through-hole to multi-layered PCB

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

TP-100/100AS FEATURES

Easy to Use

Compact design with an internal motor, pump, and temperature-control circuit built into the grip. Portable and efficient.

Powerful Vacuum

Maximum vacuum of -0.08Mpa (-600mmHg). Removes through-hole solder easily.

Variable Temperature Setting

Sensor feedback system allows temperature setting from $250\text{--}450^{\circ}\text{C}$.

Replaceable Cartridge Filter

Makes changing the filter easy.



Carry case included.



Can be set from $250\text{--}450^{\circ}\text{C}$.



Anti-static Model
TP-100AS

SPECIFICATIONS

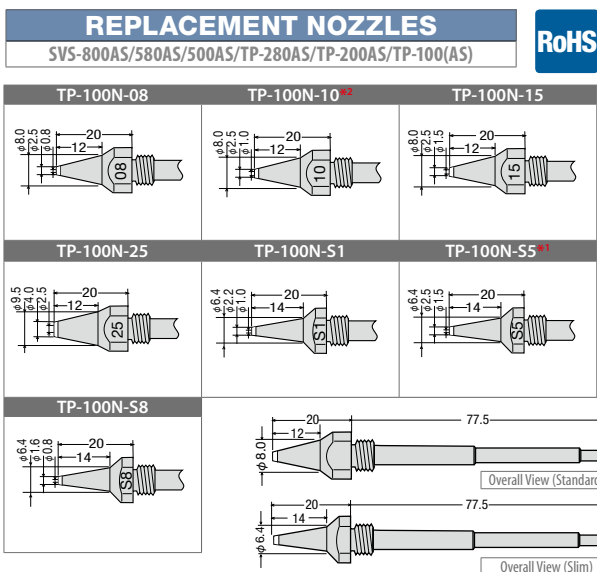
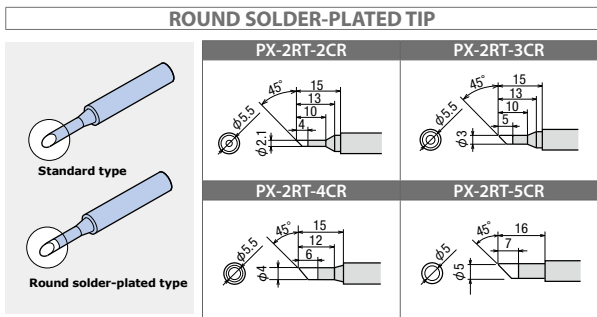
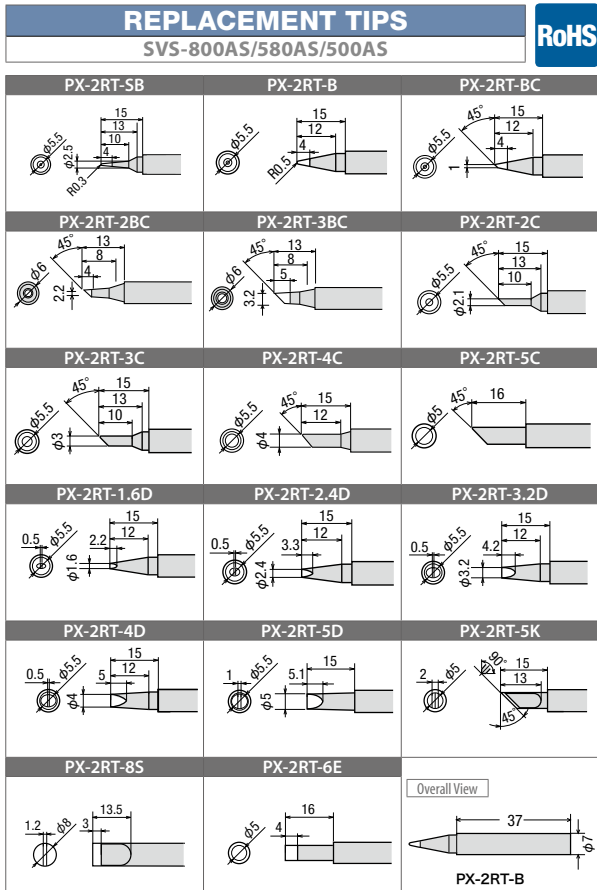
MODEL	TP-100	TP-100AS
Voltage	110–130V, 220–240V AC 50/60Hz	
Power Consumption	80W (110–130V), 70–75W (220–240V)	
Power Cord Length	1.5m	
Temperature Setting Range	250–450°C	
Insulation Resistance	Over $100\text{M}\Omega$ (500V DC)	
Vacuum Pump System	Diaphragm system	
Vacuum	-0.08MPa (-600mmHg)	
Heater	Ceramic Heater	
Standard Nozzle	TP-100N-10	
Accessories	Cleaning pin TP-100CP-07/ Filter TP-100F	
	Carry case	
	Heat resistant pipe /Stand	
Dimensions	225×170 mm	
Weight	470g (w/o cord)	



Carry case with heat resistant pipe that allows the gun to be stored immediately after use. Also includes stand to rest the gun.



For replacement nozzles, and optional partss, refer to [p. 67](#)



*1 Model SVS-800AS, SVS-580AS, TP-280AS Standard Nozzle : TP-100N-S5
*2 Model SVS-500AS, TP-200AS, TP-100(AS) Standard Nozzle : TP-100N-10

REPLACEMENT PARTS / OPTIONS	
REPLACEMENT PARTS FOR SVS-800AS/580AS/500AS	
*Desoldering Unit for SVS-800AS/SVS-580AS TP-28GAS	Soldering Iron Unit (common for SVS series) SVS-50GAS
Desoldering Unit for SVS-500AS TP-20GAS	Heater for Soldering Iron SVS-500H-1
Heater for Desoldering Gun TP-100H	Heater Barrel for Soldering Iron TQ-77HP(S)
Heater Barrel for Desoldering Gun TP-100HP	Spacer for Soldering Iron TQ-77SS
	Collar for Soldering Iron TQ-77NUT

*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (SVS-500, SVS-500AS, SVS-550AS)

REPLACEMENT PARTS FOR TP-280AS/200AS	
*Desoldering Unit for TP-280AS TP-28GAS	Desoldering Unit for TP-200AS TP-20GAS
Heater TP-100H	Heater Barrel TP-100HP

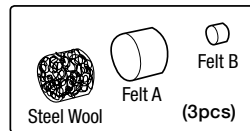
*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (TP-200, TP-200AS, TP-250AS)

REPLACEMENT PARTS FOR TP-100/100AS	
Heater TP-100H	Heater Barrel TP-100HP

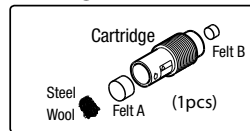
COMMON PARTS	
Filter Filter Set (3pcs) TP-100F	Steel Wool Only (3pcs) TP-100UL
Cartridge Set TP-100K	Felt B (10pcs) TP-100RFT

Cleaning Pin Vice Pin vice body (The drill bit is not included.) TP-100PV	Cleaning Pin Cleaning Pin
Drill Bit $\phi 0.7\text{mm}$ TP-100DB-07	
Drill Bit $\phi 0.9\text{mm}$ TP-100DB-09	
Drill Bit $\phi 1.4\text{mm}$ TP-100DB-14	
Drill Bit $\phi 2.4\text{mm}$ TP-100DB-24	

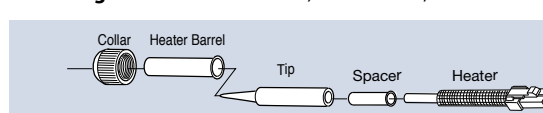
Filter Set TP-100F



Cartridge Set TP-100K



Soldering Iron Unit SVS-800AS, SVS-580AS, SVS-500AS



DESOLDERING PRODUCTS DESOLDERING WICKS

RMA base flux. DESOLDERING WICKS CP/CPN series

RoHS MSDS



CONVENTIONAL DISPENSER PACK

●High-quality desoldering wick with braided copper wire, saturated with non-chlorine special flux. ●Can be used for precision PCBs safely.



MODEL	Type	Width	Length
CP-1515	Tubular Knitting	Approx. 1.5mm	Approx. 1.5m
CP-2015	Plain Knitting	Approx. 2.0mm	
CP-2515	Tubular Knitting	Approx. 2.5mm	
CP-3015	Plain Knitting	Approx. 3.0mm	
CP-3515	Tubular Knitting	Approx. 3.5mm	
CP-4515	Tubular Knitting	Approx. 4.5mm	

ECONOMICAL PACKS OF 10PCS

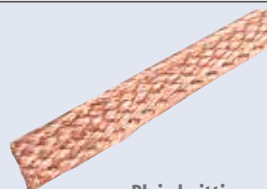
●With convenient zipper bag. ●Contains silica gel to reduce quality degradation.



MODEL	Type	Width	Length
CP-1515-10	Tubular Knitting	Approx. 1.5mm	Approx. 1.5m
CP-2015-10	Plain Knitting	Approx. 2.0mm	
CP-2515-10	Tubular Knitting	Approx. 2.5mm	
CP-3015-10	Plain Knitting	Approx. 3.0mm	
CP-3515-10	Tubular Knitting	Approx. 3.5mm	
CP-4515-10	Tubular Knitting	Approx. 4.5mm	

FOR LEAD-FREE DESOLDERING

Our thin and soft desoldering wire's flat braid has efficient thermal transmission. Removes solder faster with better heat response than previous wicks. Recommended for lead-free solder with high heating load.



Plain knitting

FOR LARGE QUANTITY DESOLDERING

Available in widths of 1.5/2.5/3.5/4.5mm. The wicks are woven cylindrically.



Tubular knitting

DISPENSER PACK WITH STAINLESS STEEL MOUTH

●Can be used for precision PCBs safely. ●Ergonomic design will keep your fingers cool.



MODEL	Type	Width	Length
CP-15Y	Tubular Knitting	Approx. 1.5mm	Approx. 2m
CP-20Y	Plain Knitting	Approx. 2.0mm	
CP-25Y	Tubular Knitting	Approx. 2.5mm	
CP-30Y	Plain Knitting	Approx. 3.0mm	
CP-35Y	Tubular Knitting	Approx. 3.5mm	

BULK-LENGTH SPOOL

●Bargain extra-long wicks with spool. ●Makes it easy to take anywhere.



MODEL	Type	Width	Length
CP-15B	Tubular Knitting	Approx. 1.5mm	Approx. 30m
CP-20B	Plain Knitting	Approx. 2.0mm	Approx. 30m
CP-25B	Tubular Knitting	Approx. 2.5mm	Approx. 20m
CP-30B	Plain Knitting	Approx. 3.0mm	Approx. 20m
CP-35B	Tubular Knitting	Approx. 3.5mm	Approx. 15m
CP-45B	Tubular Knitting	Approx. 4.5mm	Approx. 13m

HALOGEN-FREE DESOLDERING WICKS CPN SERIES



- Available in packs of 10 only.
- Does not intentionally contain halogens.
- RMA non-wash flux is used. (J-STD-004: ROLO)
- Plain-knitting wick recommended for lead-free applications with high heat conduction.
- Anti-static case.
- Contains silica gel to reduce quality degradation.
- With convenient zipper bag.

MODEL	Type	Width	Length	Quantity
CPN-2015-10	Plain Knitting	Approx. 2.0mm	Approx. 1.5m	10pcs/ Pack
CPN-3015-10	Plain Knitting	Approx. 3.0mm	Approx. 1.5m	10pcs/ Pack

HALOGEN-FREE

Less than 1,000 ppm each of chlorine, bromine, fluorine and iodine content (JEITA Standards)

Rosin	Length	Width						Quantity
		1.5mm	2.0mm for LEAD-FREE	2.5mm	3.0mm for LEAD-FREE	3.5mm	4.5mm	
HALOGEN-FREE	1.5m		CPN-2015-10		CPN-3015-10			10
RMA flux	1.5m	CP-1515						1
		CP-1515-10						10
			CP-2015					1
			CP-2015-10					10
				CP-2515				1
				CP-2515-10				10
					CP-3015			1
					CP-3015-10			10
						CP-3515		1
						CP-3515-10		10
	2.0m						CP-4515	1
							CP-4515-10	10
		CP-15Y						1
			CP-20Y					1
				CP-25Y				1
					CP-30Y			1
						CP-35Y		1
							CP-45B	1
						CP-35B		1
				CP-25B				1
					CP-30B			1
	30m	CP-15B						1
			CP-20B					1

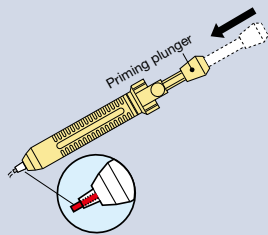
DESOLDERING PRODUCTS DESOLDERING SUCKERS

Manual pumps suck up solder.
Plunger pumps are light, strong, and economical.

DESOLDERING SUCKERS GS series

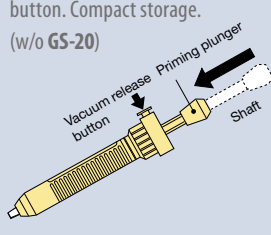
SELF-CLEANING SHAFT

When the plunger is pushed, a piston extends out the nozzle. This prevents solder build-up.



PLUNGER LOCK FUNCTION

The plunger can be stored inside the shaft by pushing it in completely, and pressing the vacuum release button. Compact storage. (w/o GS-20)



GS-100 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

JUMBO SIZE
Large vacuum capacity

PLUNGER LOCK FUNCTION
Portable, compact storage



GS-104 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage



GS-108 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogseasy

GS-150 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage

JUMBO SIZE
Large vacuum capacity

ANTI-STATIC MATERIAL
On the nozzle



GS-154 **RoHS**



SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage

ANTI-STATIC MATERIAL
On the nozzle

GS-158 **RoHS**



SELF-CLEANING SHAFT
To prevent solder clogs

ANTI-STATIC MATERIAL
On the nozzle

GS-20

SELF-CLEANING SHAFT
To prevent solder clogs

PENCIL SIZE
Compact and Portable

SPECIFICATIONS

MODEL	GS-20	GS-100	GS-104	GS-108
Color	blue		ivory	
Length	155mm	330mm	275mm	190mm
When Stored	—	240mm	205mm	—
Weight	25g	89g	65g	25g
Diameter	ø12mm	ø23mm	ø19mm	ø14mm
Applicable Nozzle	GS-20N	GS-100N	GS-108N	GS-108N

MODEL	GS-150	GS-154	GS-158
Color		Black	
Length	330mm	275mm	190mm
When Stored	240mm	205mm	—
Weight	89g	65g	25g
Diameter	ø23mm	ø19mm	ø14mm
Applicable Nozzle	GS-150N	GS-154N	GS-158N

REPLACEMENT NOZZLES

GS-20N	GS-108N	GS-158N
GS-100N	GS-150N	

SOLDERING ACCESSORIES

AIR PURIFYING FUME VACUUM	SS-60
ANTI-STATIC MATS	WD-13/130
WRIST STRAPS	WS-11/12
SURFACE RESISTIVITY METER	WA-400
LOW-DUST/ANTI-STATIC GLOVES	WG series
SOLDER ASSIST	SA-10
PRECISION TWEEZERS	TS series
HEAT CLIPS	H series
TIP REFRESHER	BS-2
TIP CLEANERS	ST-30/40/70
SOLDERING IRON STANDS	ST-27/11 ST-75/75V/76/77
SOLDER REEL HOLDERS	ST-51/52/53
MAGNIFIERS	ST-91/92/93
MINI VISE	ST-80
CORE ALIGNMENT TOOLS	CD-10
CERAMIC CORE DRIVERS	CD series
MAINTENANCE TOOL SETS	TL-10/20

LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

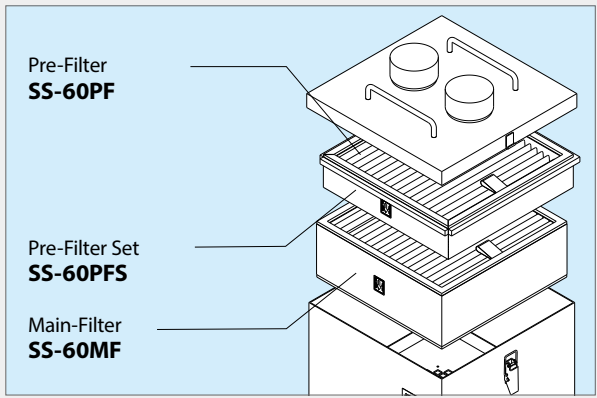
For cleaner work environment
AIR PURIFYING TYPE FUME VACUUM
SS-60



SUCK AND CLEAN FROM TWO LOCATIONS
with one unit

EASY FILTER REPLACEMENT
easy to move, easy to set up

● Highly portable, energy-efficient solder fume extractor. Two fume extraction ducts for use at two separate workstations simultaneously.



REPLACEMENT PARTS / OPTIONS

Pre-Filter SS-60PF	Filter Set SS-60PFS
Main-Filter SS-60MF	Duct Hose SS-60D

SPECIFICATIONS

MODEL	SS-60
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	240W
Noise Level	60dB (at 1m from the unit)
Smoke Exhaust	2 ducts (ø75mm)
Collection Efficiency	95% 0.3μm
Duct Hose Length	ø75mm x 1.2m
Suction Capacity	Max.165m³/h (single duct operation)
Power Cord Length	1.5m inlet type
Dimensions	300 (W) x 455 (H) x 300 (D)mm
Weight	110-120V : 16kg, 220-240V : 15kg

SOLDERING ACCESSORIES ANTI-STATIC MATS/WRIST STRAPS

Suitable for assembly rooms (for IC or electrical components) to prevent static charge.

ANTI-STATIC MATS

WD-130/WD-13



- Matte green. ●Available for work desks and floors.

Model	Length	Width	Thickness	Material/ Hardness	Surface Resistivity	
					Surface (green)	Bottom (black)
WD-130	10m	1m	2mm	Synthetic Rubber/65	10^2-10^9 Ω/sq	10^3-10^5 Ω/sq
WD-13	2m					

Item	Model	Specifications
Ground Wire Plate	WD-1E	50×100mm/2 pieces / 2m cords
Short Plate	WD-1P	50×100mm/10 pieces
Ground Wire Set	WD-1G	3.1m
Aluminum Tape	WD-3020	0.05mm (T) x 30mm (W) x20m (L)

OPTION

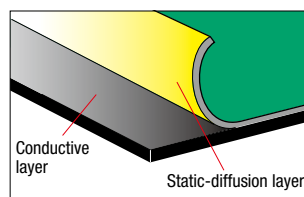
How To Use WD-1G Desk Mat (Ground Wire Set)

- Make a 10mm hole in the mat.
- Place the connector plate under the hole in the mat. Secure the connector using the screw.
- Connect the grounding cord to the connector on the mat.
- The banana strap used with the WS-11/12 can also be connected to the connector on the mat.

- Elastic & scissible rubber sheet.

Double structure

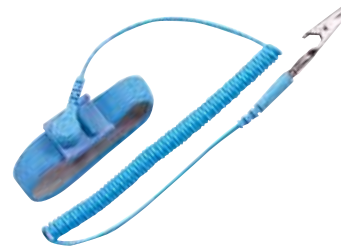
static-diffusion layer (green) : 0.5mm
conductive layer (black) : 1.5mm



Avoid electrostatic discharge and protect sensitive electronic devices.

WRIST STRAPS

WS-11/12



- Larger snap with improved durability. ●Adjustable band length.
- 1M Ω resistor in electrical path from person to ground.

SPECIFICATIONS

MODEL	Cord Length	Cord Material	Band Width
WS-11	1.7m	Polyurethane	20mm
WS-12	2.8m		

REPLACEMENT PARTS / OPTIONS

Wrist Band for WS-11/12	Alligator Clip for WS-11/12
WS-11-1	WS-11-3
Coil cord for WS-11	Coil cord for WS-12
WS-11-2	WS-12-2

Color LED measurement display.
Compact and portable.

SURFACE RESISTIVITY METER

WA-400



- Measures the Surface Resistivity [Ω/sq], Resistance to Ground (RTG) [Ω] and Resistance between two points (RTT), of floors, work surfaces, conductive materials, and anti-static accessories. ●Compact and powered by single 9V battery (006P). ●Measurements instantly displayed in three-color LED.

RTT Test Jack

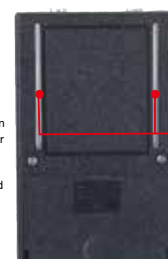
Measures the Resistance between two points with two included leads. When measuring RTT, the Surface Resistivity electrodes on the rear of the unit become inactive.

Range	Classification	LED Display
Less than $10^5\Omega$ (Ω/sq)	Conductive	Green
Between 10^6 and $10^{11}\Omega$ (Ω/sq)	Dispersive	Orange
More than $10^{12}\Omega$ (Ω/sq)	Insulative	Red



RTG Test Jack

Measures the Resistance to Ground between the Surface (rear electrodes) and ground point with an included lead.



Surface Resistivity Electrodes

Place the meter on the test surface.

RTG Test Measures the Resistance to Ground between the Surface (rear electrodes) and ground point with an included lead.

SPECIFICATIONS

MODEL	WA-400
Power Supply	9V (006P) Battery
Ranges	$10^3-10^{12}\Omega/\text{sq}$ (Surface Resistivity) $10^3-10^{12}\Omega$ (RTG & RTT)
Battery Life	Approx. 40 hours
Dimensions	61(W) × 26(H) × 96(D) mm
Weight	70g (w/o battery)
Accessories	2 x Test Wires

SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING MATERIALS

HEATED TOOLS

HAND TOOLS

HAND TOOLS

HAND TOOLS

Low dust-shedding with woolly nylon.
Ideal for clean rooms.

LOW-DUST GLOVES / ANTI-STATIC GLOVES WG series

WG-1/2 series LOW-DUST GLOVES



- Seamless and elastic for perfect fit. Hold small components safely.
- Superior ventilation with polyurethane resin coating on fingertips only, or palm.
- Machine washable.

WG-3/4 Series ANTI-STATIC GLOVES



- Remove static charge quickly with woolly nylon & conductive fiber material.
- High elasticity. Perfect for holding small components.

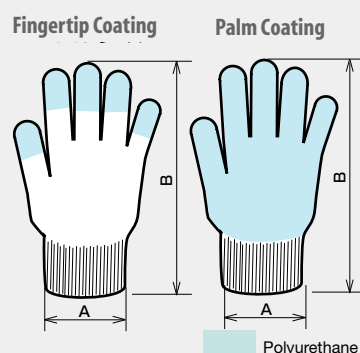
Surface resistance: $3.3 \times 10^8 \Omega$

WG-1/2 series

WG-3/4 series



NOTE: The polyurethane resin coating is not an anti-static material.



LOW-DUST GLOVES

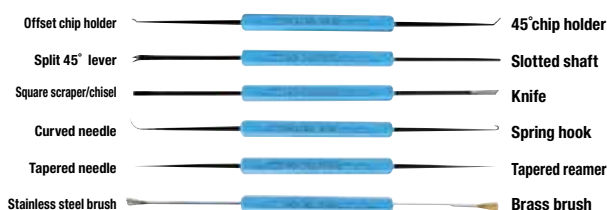
MODEL	Coating	Size	A×B
WG-1S	Fingertip Coating	S	65×185mm
WG-1M		M	65×205mm
WG-1L		L	70×225mm
WG-2S	Palm Coating	S	65×185mm
WG-2M		M	65×205mm
WG-2L		L	70×225mm

ANTI-STATIC GLOVES

MODEL	Coating	Size	A×B
WG-3S	Fingertip Coating	S	65×185mm
WG-3M		M	65×205mm
WG-3L		L	70×225mm
WG-4S	Palm Coating	S	65×185mm
WG-4M		M	65×205mm
WG-4L		L	70×225mm

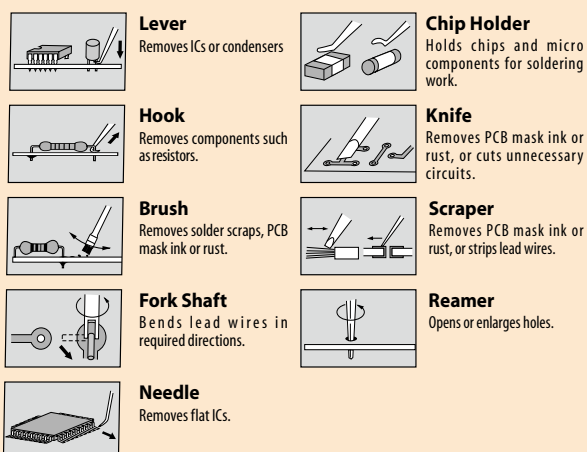
Convenient set of 6 tools for assembling
and repairing PCBs.

SOLDER ASSIST SA-10



NOTE : Not sold individually.

SUGGESTED USES



MODEL	Size	Weight
SA-10	Approx. 180mm	Approx. 60g

SOLDERING ACCESSORIES TWEEZERS

Ideal for assembly work such as soldering PCBs or replacing parts.

PRECISION TWEEZERS [STANDARD]
TS-10

RoHS SST



TS-10

MODEL	Tip Shape	Length	Weight
TS-10	Standard	Approx. 120mm	Approx. 19g

Longer tip and overall length, best for holding tiny components.

PRECISION TWEEZERS [LARGE]
TS-11

RoHS SST



TS-11

MODEL	Tip Shape	Length	Weight
TS-11	Large	Approx. 140mm	Approx. 15g

Extra-strength tip.

PRECISION TWEEZERS [HEAVY-DUTY]
TS-12

RoHS SST



TS-12

MODEL	Tip Shape	Length	Weight
TS-12	Extra Strength	Approx. 115mm	Approx. 15g

Round tip prevents damage to components.

PRECISION TWEEZERS [ROUND]
TS-13

RoHS SST



TS-13

MODEL	Tip Shape	Length	Weight
TS-13	Round	Approx. 120mm	Approx. 19g

Extra-fine tip with sharp and strong edges.

PRECISION TWEEZERS [ULTRAFINE]
TS-14

RoHS SST



TS-14

MODEL	Tip Shape	Length	Weight
TS-14	Extra fine	Approx. 115mm	Approx. 17g

Eagle-beak tweezers with 45° bent tip.

PRECISION TWEEZERS [EAGLE BEAK]
TS-15

RoHS SST



TS-15

MODEL	Tip Shape	Length	Weight
TS-15	Curved	Approx. 120mm	Approx. 15g

Self-closing, reverse action. Ideal for holding parts when soldering.

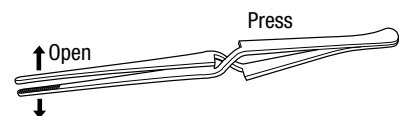
PRECISION TWEEZERS [REVERSE ACTION]
TS-16/17

RoHS SST



TS-16

TS-17



MODEL	Tip Shape	Length	Weight
TS-16	Standard	Approx. 120mm	Approx. 20g
TS-17	Round	Approx. 165mm	Approx. 30g

Protects components from excess heat from soldering iron.

HEAT CLIPS [HEAT SINK]

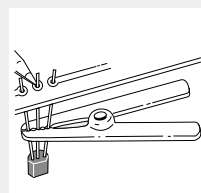
H-1S/1L/2SL

H-1L is suitable for reaching into narrow spaces.

H-2SL is a set of H-1S and H-1L.

RoHS

H-1S



H-1L

MODEL	Material	Length	Weight
H-1S	Aluminum	70mm	4.5g
H-1L		68mm	4.5g
H-2SL		A set of H-1S and H-1L	

SOLDERING ACCESSORIES TIP CLEANER/SOLDERING IRON STANDS

Improves oxidized soldering tips.

TIP REFRESHER

BS-2



- Removes oxides on tips, re-coats the tip with tin, and restores solder wetting capability.



HOW TO USE

- Optimal tip temperature for cleaning is 300°C-360°C.
- Rub the tip in the tip refresher.
- Apply solder to the tip, and clean the tip with the sponge of the soldering iron stand.
- Apply solder again. You are finished. If wetting capability is not enough, repeat steps 2 & 3.

MODEL	BS-2
Composition	Ammonium phosphate, Tin Powder
NET Content	9g

No water, so less heat loss.

TIP CLEANER

ST-40



- The holder is made of slip-proof, heat-resistant silicon rubber. Its special shape prevents solder-slag flying around. 1 ball of brass wool is included.

MODEL	Width	Height	Weight
ST-40	59mm	60mm	80g

Simple, portable, fold-away cleaner.
Can be kept in a tool box.



TIP CLEANERS

ST-30/70



ST-30

ST-70

MODEL	Width	Depth	Height	Weight
ST-30	57mm	87mm	45mm	35g
ST-70	60mm	110mm	60mm	70g

REPLACEMENT PARTS / OPTIONS

ST-11 Sponge ST-11SP	ST-21/27/53 Sponge ST-53SP	ST-30 Sponge ST-30SP	ST-70/75/76/77/75V Sponge ST-70/75SP	ST-21/27/40 Cleaner (2pcs) ST-40BW
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For any type of soldering iron:
nichrome or ceramic.



SOLDERING IRON STANDS

ST-11/75/75V/76/77



ST-11



ST-75



ST-75V

For ceramic-heater soldering iron only

Cannot be used for HRC series



ST-76



ST-77

Angle adjustable
up to 60°

Angle adjustable
up to 60°

MODEL	Width	Depth	Height	Weight
ST-11	75mm	110mm	130mm	350g
ST-75	102mm	110mm	115mm	410g
ST-75V	110mm	125mm	125mm	480g
ST-76	102mm	110mm	140mm	490g
ST-77	68mm	160mm	148mm	400g

Only for ceramic soldering iron.
HRC series compatible



SOLDERING IRON STAND

ST-27



MODEL	Width	Depth	Height	Weight
ST-27	72mm	178mm	106mm	485g

SOLDERING ACCESSORIES SOLDERING IRON STANDS/MAGNIFIERS

Superior stability



SOLDER REEL HOLDERS ST-51/52/53

●Maximum load of 1kg. Heavy base ensures extra stability. Guide spring prevents solder tangle. Comes with carrying handle.
Solder is not included.



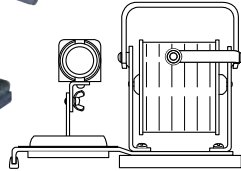
ST-51

ST-53

For ceramic-heater soldering iron only
Cannot be used for HRC series



ST-53 soldering iron stand attaches to either side of the reel holder.



ST-52

●Both the upper and lower spindles can be mounted with up to 1kg solder reels.



MODEL	Width	Depth	Height	Weight
ST-51	92mm	120mm	110mm	620g
ST-52			194mm	870g
ST-53	163mm	150mm	126mm	1100g

3X magnification with a diameter of 90mm acrylic bifocal lens.

MAGNIFIERS

ST-91/92/93

Stable base makes safe soldering work.



ST-91



ST-92

ST-93



ST-93 has small & large flexible clips.

MODEL	Width of Clip	Width	Depth	Height	Weight
ST-91	—	95mm	170mm	190mm	410g
ST-92	105mm	120mm	160mm	130mm	550g
ST-93	200mm	150mm	245mm	280mm	1000g

Rubber suction base easily fixes to any work table.

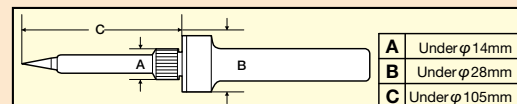
MINI VISE ST-80

Makes soldering work easier by holding small components.



MODEL	Width of Clip	Width	Depth	Height	Weight
ST-80	35mm	80mm	90mm	70mm	110g

Applicable Soldering Iron Dimensions for ST-53/76/77



PERFECT CHOICE OF TIP CLEANER AND IRON STAND

◎ Best ○ Good

Item	Model	Nichrome Type		Ceramic Type					Temperature Controlled	
		KS HOT CA	HP	HRC	CS-21 CS-31	CXR-31 CXR-41	CXR-60 CXR-80 CXR-100	TQ	PX-335 PX-338 PX-342	PX-201 PX-401 PX-501 (AS) PX-601 (AS)
Tip Cleaner	ST-30	○								
	ST-70	○	○				○	○		
Soldering Iron Stand	ST-11	◎			○	○		○		
	ST-27			◎	◎	◎	◎	◎	◎	◎
	ST-75	◎								
	ST-76						○		○	○
	ST-77				◎	◎	◎	◎	◎	◎

SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT/SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

SOLDERING ACCESSORIES CORE DRIVERS/TOOL SETS

For adjusting high frequency coils. CORE ALIGNMENT TOOLS CD-10

RoHS



5 alignment tools to adjust potentiometers, IFT coils, and high frequency coils. Made of plastic. Can be used safely for high-voltage parts.

NOTE: Not sold individually.

MODEL	SIZE	Length	Weight
CD-1	1.2×0.65 1.4 2.6 2.7 1.5 1.4×0.75	127mm	3.2g
CD-2	1.95 2.6 2.65 2.0 1.9×0.9	141mm	3.1g
CD-3	2.6×1.0 2.65 3.1 3.35 3.15 3.2×1.2	131mm	3.5g
CD-4	2.8×0.3 3.4×0.3	137mm	4.2g
CD-5	For trimmer potentiometer diam. φ7.8, inner diam. φ5.8	136mm	2.2g

MODEL	Item
CD-10	Core Alignment Tools (5 tools per set)

Best adjusting tool for high-frequency components.

RoHS

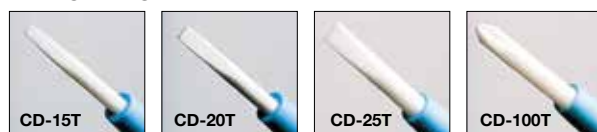
CERAMIC CORE DRIVERS CD series

Non-conductive, anti-magnetic, and long-life screwdriver with zirconia ceramic tip. Best adjusting tool for high-frequency components such as in Tuner, TV, Radio, Transceiver.



MODEL	Length	Weight	Tip size	Tip type
CD-15	115mm	5g	1.3(W) x 0.4(D)mm	CD-15T
CD-20			1.8(W) x 0.4(D)mm	CD-20T
CD-25			2.6(W) x 0.4(D)mm	CD-25T
CD-100			No.0. +	CD-100T

TIP SHAPES



REPLACEMENT PARTS / OPTIONS

Tip for CD-15 (1.3×0.4mm) CD-15T	Tip for CD-20 (1.8×0.4mm) CD-20T
Tip for CD-25 (2.6×0.4mm) CD-25T	Tip for CD-100 (No.0 +) CD-100T

A must-have! MAINTENANCE TOOL SETS TL-10/20



TL-20

No.	Contents	No.	Contents	No.	Contents
1	Cutting nippers	8	Screwdriver (+) No.0	15	Solder assist (Reamer)
2	Pliers	9	Screwdriver (+) No.1	16	Solder assist (Fork & Remover)
3	Cutting pliers	10	Screwdriver (+) No.2	17	Desoldering wick
4	Tweezers	11	Hexagonal wrench 5.5 BOX	18	Tip cleaner
5	Miniature screwdriver (-)	12	Soldering iron	19	Cutter knife
6	Screwdriver (-) 4.0mm	13	Solder	20	File
7	Screwdriver (-) 5mm	14	Desoldering pump	21	Tool bag



TL-10

No.	Contents	No.	Contents
1	Pliers	8	Screwdriver (-) 5mm
2	Cutting nippers	9	Hexagonal wrench 5.5 BOX
3	Tweezers	10	Desoldering wick
4	Miniature screwdriver (-)	11	Tip cleaner
5	Screwdriver (+) No.1	12	Solder
6	Screwdriver (+) No.2	13	File
7	Soldering iron	14	Tool bag

SOLDERING WORK MATERIALS

LEAD-FREE SPOOL SOLDERS	<i>SF series</i>
SPECIAL SPOOL SOLDERS	<i>SE series</i>
SOLDERING PASTES	<i>BS-10/15/850</i>
ANTI-SEIZE	<i>BS-H20B</i>

SOLDERING WORK MATERIALS



Industry-standard composition
LEAD-FREE SOLDERS
SF-A series (Rosin core)



Low-Ag type
LEAD-FREE SOLDERS
SF-B series (Rosin core/ Non-rosin core)



Eco-friendly
HALOGEN-FREE LEAD-FREE SOLDERS
SF-N series (Rosin core)



●High-reliability residue after soldering. Wash-free available. Does not intentionally contain halogens. Fewer than 1,000 ppm each of chlorine, bromine, fluorine, and iodine. (JEITA Standards)

LEAD-FREE SOLDERS SF-A series (Industry-standard composition)

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-A0403	96.5-3.0-0.5	217-220°C	ø0.3mm	107m	45g	Rosin core
SF-A0404			ø0.4mm	60m		
SF-A0406			ø0.6mm	27m		
SF-A0408			ø0.8mm	15m		
SF-A0410			ø1.0mm	10m		

JAPAN PAT.: 3027441 US PAT.: 5527628

LEAD-FREE SOLDERS SF-B series (Low-Ag type)

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-B1003	99-0.3-0.7	216-227°C	ø0.3mm	225m	100g	Rosin core
SF-B1004			ø0.4mm	127m		
SF-B1006			ø0.6mm	56m		
SF-B1008			ø0.8mm	32m		
SF-B1010			ø1.0mm	20m		None
SF-B1012			ø1.2mm	14m		
*SF-B1012N			ø1.2mm	14m		
SF-B1016			ø1.6mm	8m		
*SF-B1016N	99-0.3-0.7	216-227°C	ø1.6mm	8m	400g	None
SF-B4006			ø0.6mm	225m		Rosin core
SF-B4008			ø0.8mm	127m		
SF-B4010			ø1.0mm	81m		
SF-B4012			ø1.2mm	56m		
SF-B8008	99-0.3-0.7	216-227°C	ø0.8mm	253m	800g	Rosin core
SF-B8010			ø1.0mm	162m		
SF-B8012			ø1.2mm	113m		

NOTE: SF-B1012N & SF-B1016N are not rosin core. They require metal-working flux.

LEAD-FREE SOLDERS HALOGEN-FREE SF-N series

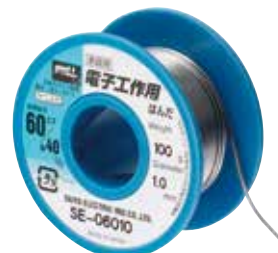
MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-N0406	96.5-3.0-0.5	217-220°C	ø0.6mm	27m	45g	Rosin core
SF-N0408			ø0.8mm	15m		
SF-N0410			ø1.0mm	10m		

Special purpose SPECIAL SPOOL-SOLDERS SE special series



MODEL	Item	Composition (Sn-Pb)	M.T.	Dia.	Weight	Length (reference)	Rosin
SE-06003RMA	RMA WASH FREE SOLDER	60-40%	183-190°C	ø0.3mm	100g	180m	Rosin core
SE-06006RMA	Ag solder	60-37.5-2.5(Ag)%	178-211°C	ø0.6mm		48m	Rosin core
SE-0AG08	Eutectic solder	63-37%	183-184°C	ø0.8mm	100g	27m	Rosin core
SE-06308	Stainless-use solder	63-37%	183-184°C	ø0.8mm		27m	Rosin core
SE-OST16	Metal-work solder	45-55%	183-227°C	ø1.6mm		7m	Non-rosin core
SE-0BA16				ø1.6mm		6m	
SE-05010	Pb containing solder	50-50%	183-215°C	ø1.0mm	100g	17m	Rosin core
SE-05012				ø1.2mm		12m	
SE-05016				ø1.6mm		7m	
SE-05020				ø2.0mm		4m	
SE-55010				ø1.0mm	500g	85m	
SE-55012				ø1.2mm		60m	
SE-55016				ø1.6mm		35m	
SE-55020				ø2.0mm		20m	
SE-K5010				ø1.0mm	1kg	170m	
SE-K5012				ø1.2mm		120m	
SE-K5016				ø1.6mm		70m	
SE-K5020				ø2.0mm		40m	
SE-06006	Pb containing solder	60-40%	183-190°C	ø0.6mm	100g	48m	Rosin core
SE-06008				ø0.8mm		27m	
SE-06010				ø1.0mm		17m	
SE-06012				ø1.2mm		12m	
SE-06016				ø1.6mm		7m	
SE-56006				ø0.6mm	500g	240m	
SE-56008				ø0.8mm		135m	
SE-56010				ø1.0mm		85m	
SE-56012				ø1.2mm		60m	
SE-56016				ø1.6mm		35m	
SE-K6006				ø0.6mm	1kg	480m	
SE-K6008				ø0.8mm		270m	
SE-K6010				ø1.0mm		170m	
SE-K6012				ø1.2mm		120m	
SE-K6016				ø1.6mm		70m	

NOTE: SE-OST16 & SE-0BA16 are not rosin core. They require flux.



Provides improved soldering performance.



SOLDERING PASTES BS-10/15/850

Good for cables and large terminals. Removes oil or oxides, and improves wettability.

Good for PCB lead wires and electric components.

BS-850



BS-15



For soldering tips & nozzles ANTI-SEIZE BS-H20B



Effectively protects metal from high temperatures and seizing. Paste type. Brush included in the cap makes easy application to rough surfaces or hard-to-reach parts and places. Perfect for nozzle-threaded part of TP & SVS series. Neutral PH7.



Cap with brush

SOLDERING PASTES

MODEL	BS-10	BS-15
NET Content	10g	50g
Composition	Vaseline : 80-90wt%	
	Zinc chloride : 4-6wt%	
	Water : 2-4wt%	
	Paraffin : 6-9wt%	
	Ammonium chloride : 1-3wt%	

ROSIN based PASTE

MODEL	BS-850
NET Content	500g
Composition	Rosin : 40-50wt%
	2-Methyl-2,4-Pentanediol : 40-50wt%
	Organic acid : Less than 1wt%
	Thixotropic agent : 4-6wt%
	Activator : 1-3wt%

MODEL	BS-H20B
NET Content	20mL
Composition	Boron Nitride 25%
	Water 73%
	Mg-Al Silicate 2%
Heat resistance	900°C



HEATED TOOLS

HOT BOND	<i>HB-80</i>
MINI HOT BOND	<i>HB-45</i>
HOT STICKS	<i>HS-100S/200S/40S</i>
POWER CONTROLLER	<i>PC-11</i>
HOT KNIVES	<i>HOT-30R/60R</i>
HOT SLICER	<i>HE-110</i>

HEATED TOOLS HOT BOND/POWER CONTROLLER

Glue things easily.

HOT BOND

HB-80

RoHS

- Many uses! Easy operation!
- Hobby/Industrial use. Load the gun with "hot stick" glue. The gun melts the glue.

FEATURES

FOR	Repairing, adhering, or filling porous materials such as wood, paper, cloth, or leather. Tentative fixing of plastic, metals, earthenware, or glass.
OPERATION	Only 10 seconds to bond and 1-4 minutes to harden completely. Suitable for both soft & rough surfaces.
HOT STICK	Glue sticks do not contain any solvent and are 100% solid. Easy to use and to keep.

APPLICATIONS

Good for interior design, display, wrapping and packing, bookbinding, repair of cracks/shoes/bags, bonding of lead wire, prefixing components, etc.



NOTE

Data (right) is measured values. This is not a warranty. Reheating will melt hot stick again. Please test carefully for suitability to your situation. TAIYO is not responsible for misuse.

Main composition		Ethylene - Vinyl Acetate
Softening point		84°C (Ring & ball)
Open time		30 sec.
Setting time		18 sec.
Viscosity	180°C	10000cps
	170°C	15000cps
Glue strength	Peeling strength	Canvas 2.59 kg/cm
	Share strength	PVC-PVC 27.81 kg/cm² PVC-ABS 24.33kg/cm²



Built-in Safety Fuse



SPECIFICATIONS

MODEL	HB-80
Voltage	110-240V AC 50 / 60Hz
Power Consumption	14W
Nozzle Temp.	160°C
Heater	PTC Heater
Power Cord Length	1.4m
Dimensions	185(W) x 155(H) mm
Weight	220 g
Accessories	Hot Sticks 4pcs (ø11 x 100mm), Wire Stand

*The length does not include the cord bushing. The weight does not include the cord.

Nozzles

HB-80N-B	HB-80N-SB	HB-80N-2D
Standard		

For hobby use

MINI HOT BOND

HB-45

RoHS

- Hobby/Industrial use. Compact.

SPECIFICATIONS

MODEL	HB-45
Voltage	110-240V AC 50 / 60Hz
Power Consumption	7W
Nozzle Temp.	160°C
Heater	PTC Heater
Dimensions	130(W)x115(H)mm
Weight	100 g
Accessories	Hot Sticks 3pcs (ø7 x 100mm), Wire Stand

*The length does not include the cord bushing. The weight does not include the cord.



HB-45

Built-in Safety Fuse

Glue stick for hot bond HOT STICKS HB-100S/200S



●Hot stick (solid glue) for HB-80.

MODEL	Color	Length/mm	Weight/g	Quantity
HB-100S	TP	ø11x100	Approx. 100	10
HB-100S-B1			Approx. 350	36
HB-100S-1K			1k	Approx. 100
HB-100S-10K			10k	Approx. 1000
HB-200S		ø11x200	Approx. 230	12
HB-200S-1K			1k	Approx. 50
HB-200S-10K			10k	Approx. 520

Glue stick for mini hot bond HOT STICKS HB-40S



●Hot stick (solid glue) for HB-45

MODEL	Color	Length/mm	Weight/g	Quantity
HB-40S	TP	ø7x100	Approx. 50	12
HB-40S-B1			300	Approx. 72
HB-40S-1K			1k	Approx. 250
HB-40S-10K			10k	Approx. 2,500



HB-100S-1K



HB-200S



HB-40S-B1



HB-100S-B1

Adjust your power. POWER CONTROLLER PC-11



●Plug in, and control the power of heated tools from 50-100%. ●Good for controlling tip temperature or protecting heated tools from overheating.



SPECIFICATIONS

MODEL	PC-11
Voltage	110-130V, 220-240V AC 50/60Hz
Power Consumption	20-200W
Controllable Range	50-100%
Dimensions	56(W)×39(H)×85(D) mm
Weight	75g

Can be used with the following soldering irons.

CA series, CS series, CXR series
HE series, HOT series, HP-150/200
HRC-80/100, KS series, KX series

*Can not be used with the temperature-controlled soldering iron series.

*Do not use this with any other products (ventilation fan etc.) except the above soldering irons.

HEATED TOOLS HOT KNIVES/HOT SLICER

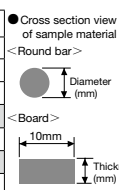
For plastic models HOT KNIVES HOT-30R/60R

● Comes with soldering tip, rosin core solder and soldering iron stand, so it can be used as a soldering iron.



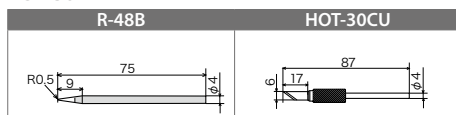
Cutting ability within 5 seconds.

Plastic Types	Cutting Ability			
	HOT-30R		HOT-60R	
	Thickness	Bar (Dia.)	Thickness	Bar (Dia.)
Vinyl Chloride	0.5mm	2mm	1mm	3mm
Acrylic	0.5mm	2mm	1mm	3mm
ABS	1mm	3mm	2mm	4.5mm
Polypropylene	1mm	3mm	1mm	3mm
Polycarbonate	1mm	3mm	1mm	3mm

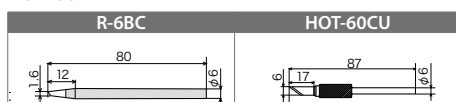


REPLACEMENT TIPS

HOT-30R



HOT-60R



REPLACEMENT PARTS / OPTIONS

Tip's temperature adjustable with our Power Controller PC-11. [p.85](#)

HOT-30R Heater
KS-30H

HOT-60R Heater
KS-60H

SPECIFICATIONS

MODEL	HOT-30R	HOT-60R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	30W	60W
Heater	Nichrome Heater	
Length	230mm	250mm
Weight	50g	65g

*The length does not include the cord bushing. The weight does not include the cord.

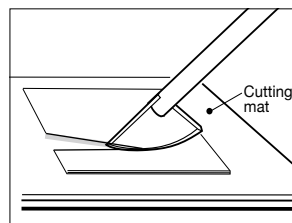
For nylon net or cloth HOT SLICER HE-110



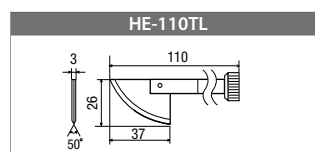
● Best for heat slicing of nylon garden nets, fish nets, promotional flags, etc.
● The sliced end does not fray.



*Not for linen, cotton, or metal wire.
*Can't be used for soldering.



REPLACEMENT TIPS



REPLACEMENT PARTS / OPTIONS

Tip's temperature adjustable with our Power Controller PC-11. [p.85](#)

HE-110 Heater
CXR-100H

SPECIFICATIONS

MODEL	HE-110
Voltage	110-130V, 220-240V AC 50/60Hz
Power Consumption	38W
Heater	Ceramic Heater
Length	284mm
Weight	104g

*The length does not include the cord bushing. The weight does not include the cord.

HAND TOOLS

SUPER CUTTERS	YN-25AS/26AS/27AS
HOBBY NIPPERS	YN-1/ 3/ 4
HOBBY PLIERS	YP-1/ 3/ 4
PRECISION NIPPERS	YN-10A / 13AS
1.5MM PLATFORM NIPPERS	YN-104
PRECISION PLIERS	YP-10
MANUAL DEPANELING TOOLS	YN-215AS / YN-220AS
CRIMPING PLIERS	YP-201
WIRE STRIPPERS	YS-1
PRECISION WIRE STRIPPERS	YS-2 / 3
CABLE STRIPPERS	YS-100 / 101



LEAD-FREE
TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING STATIONS

TEMPERATURE-CONTROLLED
SOLDERING IRONS

HIGH EFFICIENCY
SOLDERING IRONS

GENERAL/SPECIAL PURPOSE
SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT
PRODUCTS

DESOLDERINGS

SOLDERING
ACCESSORIES

SOLDERING WORK
MATERIALS

HEATED TOOLS

HAND TOOLS

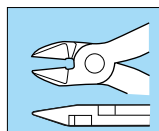
HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS

Fabulous cutting ability.
Rockwell hardness HRC62.

Enhanced durability with heavily hardened steel.

SUPER CUTTERS

YN-25AS



Flush
Cutting
Edge

- Ball-bearing grade steel
- Black oxide coated to resist rust
- Anti-static model

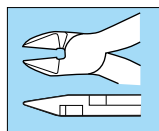
MODEL	Max. Cut Dia.	Length
YN-25AS	ø1.3mm (copper wire)	122mm

Fabulous cutting ability.
Rockwell hardness HRC58.

Enhanced durability with heavily hardened steel.

SUPER CUTTERS

YN-26AS



Flush
Cutting
Edge

- High-quality steel
- Anti-static model

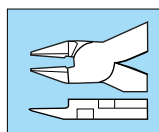
MODEL	Max. Cut Dia.	Length
YN-26AS	ø1.3mm (copper wire)	122mm

Fabulous cutting ability.
Rockwell hardness HRC58.

Enhanced durability with heavily hardened steel.

SUPER CUTTERS

YN-27AS



Flush
Cutting
Edge

- High-quality steel
- Anti-static model

MODEL	Max. Cut Dia.	Length
YN-27AS	ø1.0mm (copper wire)	122mm

Light & Compact.
Suitable for hobby work.

HOBBY HAND TOOLS

mini YN/YP series

MINI NIPPERS

YN-1



MINI NIPPERS (FOR PLASTIC)

YN-3



MINI NIPPERS

YN-4



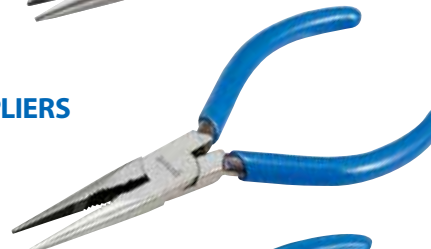
MINI PLIERS

YP-1



MINI PLIERS

YP-3



MINI PLIERS

YP-4



MINI NIPPERS

MODEL	Max. Cut Dia.	Length
YN-1	ø1.0mm (copper wire)	118mm
YN-3		115mm
YN-4		125mm

MINI PLIERS

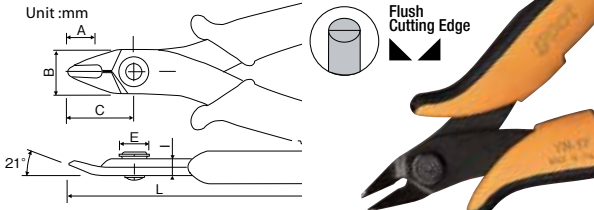
MODEL	Max. Cut Dia.	Length
YP-1	ø1.0mm (iron wire)	124mm
YP-3	ø1.0mm (iron wire)	145mm
YP-4	ø1.2mm (iron wire)	160mm

HAND TOOLS PRECISION NIPPERS

Popular cutting tools.

PRECISION NIPPERS

YN-10/12/13/17/20



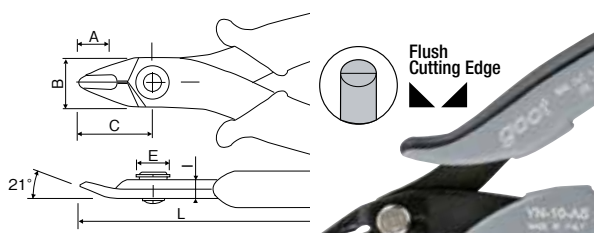
●Flat cutting edges that do not put any load on the body of the component. For cutting precision components, lead wires, etc. ●The YN-10 and 12 have a safety clip for holding wire scraps securely after cutting. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	A	B	C	E	I	L
YN-10	ø1.3	8	13.5	20	9	6	140
YN-12	ø1.0	8	10	18	9	5	133
YN-13	ø0.8	8	9.5	18	9	4	133
YN-17	ø1.3 (Thin blade)	8	13.5	20	9	5	138
YN-20	ø1.6	8	13.5	20	9	6	139

Anti-static type.

PRECISION NIPPERS

YN-10AS/13AS



Unit:mm

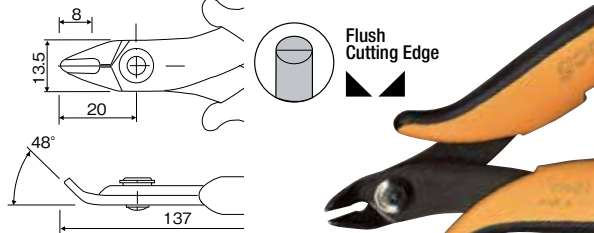
●Flat cutting edges that do not put any load on the body of the component. For cutting precision components, lead wires, etc. ●The YN-10AS has a safety clip for holding wire scraps securely after cutting. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	A	B	C	E	I	L
YN-10AS	ø1.3	8	13.5	20	9	6	140
YN-13AS	ø0.8	8	9.5	18	9	4	133

For High-Density PCBs.

PRECISION NIPPERS

YN-21



Unit:mm

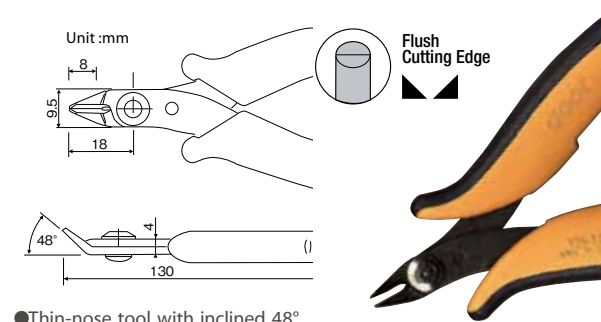
●Inclined 48° blades. For specific work such as the leads of surface-mounted components. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-21	ø1.3mm	137mm

For High-Density PCBs.

PRECISION NIPPERS

YN-15



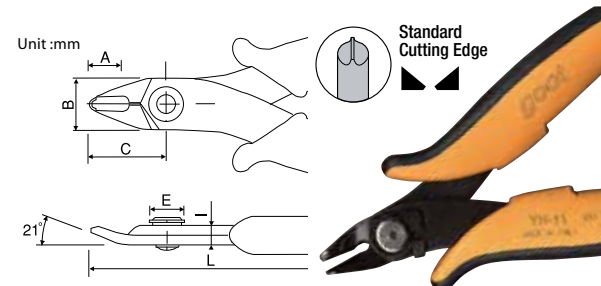
●Thin-nose tool with inclined 48° blades. Ideal for hard-to-reach areas. ●Clearly cuts flat IC leads by aligning the cutting edge with the circuit board. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-15	ø0.6mm	130mm

Strong type.

PRECISION NIPPERS

YN-11/18



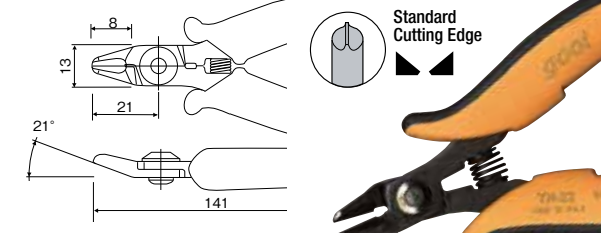
●Maximum cutting diameter of 1.6 and 2.0mm. ●YN-18 is stronger than YN-11. ●The YN-11 has a safety clip for holding wire scraps securely after cutting. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	A	B	C	E	I	L
YN-11	ø1.6	8	13.5	20	9	6	138
YN-18	ø2.0	8	13.5	19	9	6	138

Strong type.

PRECISION NIPPERS

YN-22



Unit:mm

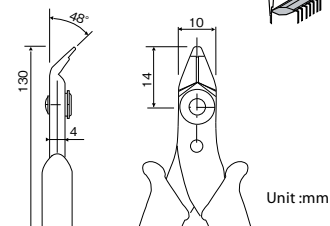
●Strong tool with a maximum cutting diameter of 2.0mm. ●The 21° blade angle allows easy cutting with slight force. **NOTE:** Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-22	ø2.0mm	141mm

HAND TOOLS PRECISION NIPPERS

For integrated circuit pins.

PRECISION NIPPERS YN-14



Unit:mm

Flush Cutting Edge



- Angled at 48° for the cutting of integrated circuit pins.
- Held in the reverse manner to standard nippers, the YN-14 cuts the flat IC leads that face away from the user.

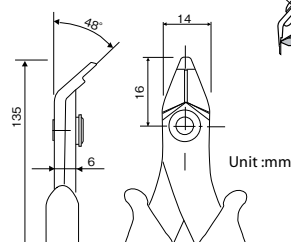


NOTE: Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-14	ø0.6mm	130mm

For integrated circuit pins.

PRECISION NIPPERS YN-16



Unit:mm

Flush Cutting Edge



- Angled at 48° for the cutting of integrated circuit pins.
- Held in the reverse manner to standard nippers, the YN-16 cuts the flat IC leads that face away from the user.

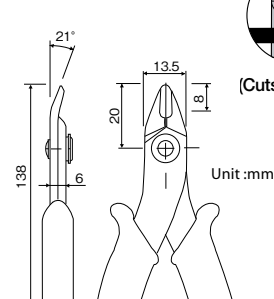


NOTE: Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-16	ø1.3mm	135mm

Cuts 1.5mm from the surface. (Horizontal Type)

1.5mm PLATFORM NIPPERS YN-104



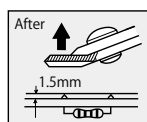
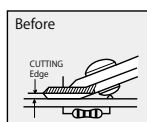
Unit:mm

Flush Cutting Edge
(Cuts leads 1.5mm above PCB)



- Cuts wires 1.5 mm from the PCB surface.

NOTE: Use only for cutting copper wire.

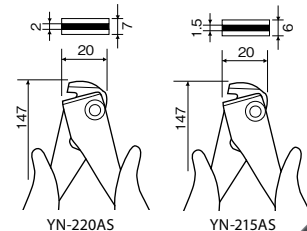


MODEL	Max. Cut Dia.	Length
YN-104	ø1.3mm	138mm

For depaneling PCBs MANUAL DEPANELING TOOL YN-215AS/ 220AS



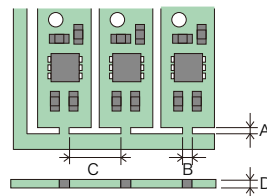
- For depaneling PCBs with slits, or perforations.
- Only light force required. Less flex, and less stress.
- Applicable for CEM-3 PCBs



YN-220AS

YN-215AS

NEW



Specifications

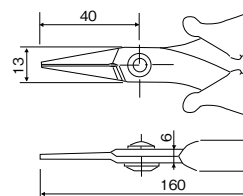
	YN-215AS	YN-220AS
A	1.6mm or more	2.1mm or more
B	2.5mm or less	
C	25mm or more	
D	2.0mm or less	2.0mm or less

MODEL	Length	Blade Thickness
YN-215AS	147mm	1.5mm
YN-220AS		2.0mm

Highly accurate with serrated long nose.

PRECISION PLIERS YP-10

Unit:mm



Tip Shape



- Highly accurate, like precision tweezers.
- Ideal for hard-to-reach areas.

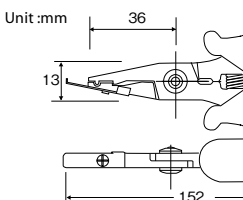
MODEL	Inner Surface w/ notches	Length
YP-10		160mm

Crimps and cuts.

CRIMPING PLIERS YP-201



Unit:mm



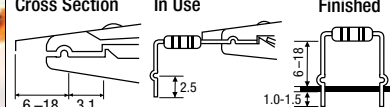
- Crimps and cuts the component wire in one operation.
- Adjustable from 6 to 18mm.



Cross Section

In Use

Finished



NOTE: Use only for cutting copper wire. Cutting technique may result in slightly varying lengths.

MODEL	Max. Cut Dia.	Length
YP-201	152mm	ø1.0mm

HAND TOOLS WIRE STRIPPERS

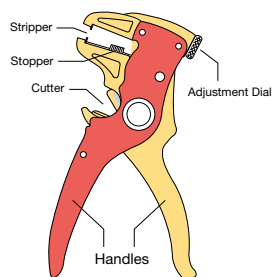
2 in 1! Wire stripper and cutter. RoHS

WIRE STRIPPER YS-1



- Adjustable stopper for consistent lengths from 2 to 20mm.
- Blade cutting depth can be simply adjusted by the dial to match the thickness of the insulation material.
- Extremely durable Nylon body strengthened by a metal plate and fiber glass.

Cannot be used for Teflon, Neoprene, or asbestos wire. Damage to the core wire may result, or it may be torn, depending on the insulation material.

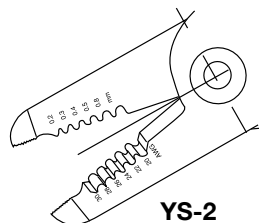
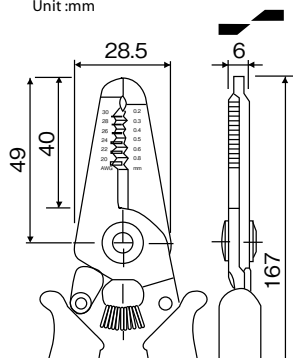


MODEL	Max. strip section	Length
YS-1	0.2–5.5mm ²	170mm

Three functions: Cutters, Wire stripper, Pliers. RoHS

PRECISION WIRE STRIPPER YS-2/3

Unit :mm



- Multi-use tool. It can be used as: Cutters, multi-diameter wire stripper, and pliers.
- Lock for handy storing.
- Spring reduces muscle fatigue.

NOTE: Use only for cutting copper wire.

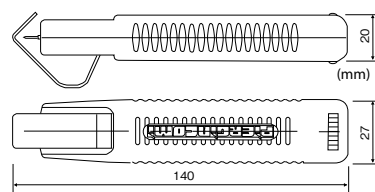
MODEL	Max. Strip Dia.	Length
YS-2	ø0.25, 0.3, 0.4, 0.5, 0.6, 0.8mm	167mm
YS-3	ø0.8, 1.0, 1.3, 1.6, 2.0, 2.6 mm	

Adjustable cutting depth to match the thickness of the cable jacket. RoHS

CABLE STRIPPER YS-100/101

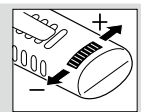


- Cuts cable jacket simply and accurately.
- Adjustable cutting depth to match the thickness of the cable jacket.
- Spare blades stored in the handle.
- Safe design with covered blade.
- The blade moves automatically in the cutting direction.



HOW TO ADJUST THE BLADE

Turn the dial to adjust the blade cutting depth to match cable jacket thickness. Excess blade edge damages the core wire.



NOTE: Cannot be used with oval-shaped cables.

HOW TO USE

- Push up the hook metal.
- Cable Face
Position A
Insert the cable. Let the cable push the blade to position "A".
- Clamp the cable by the hook.
- Rotate the cable stripper in the direction of the arrow. When the cable jacket is cut, the stripper turns lightly.
- Pull outward in the direction of the arrow to complete the stripping. (The blade moves automatically in the cutting direction.)

MODEL	Max. Strip Dia.	Length
YS-100	ø4–16mm	140mm
YS-101	ø8–28mm	

REPLACEMENT PARTS / OPTIONS

YS-100 /101 Blade
YS-100HA



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