



2020-2021

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SOLDERING IRONS, EQUIPMENT & ACCESSORIES
TAIYO ELECTRIC IND. CO., LTD.

Vol.51

SOLDERING SYSTEM

**SMT REWORK REPAIR
SYSTEMS**

SOLDERING IRONS

Assembly use
Maintenance use
Hobby use
Special purpose irons

**SOLDERING
ACCESSORIES**

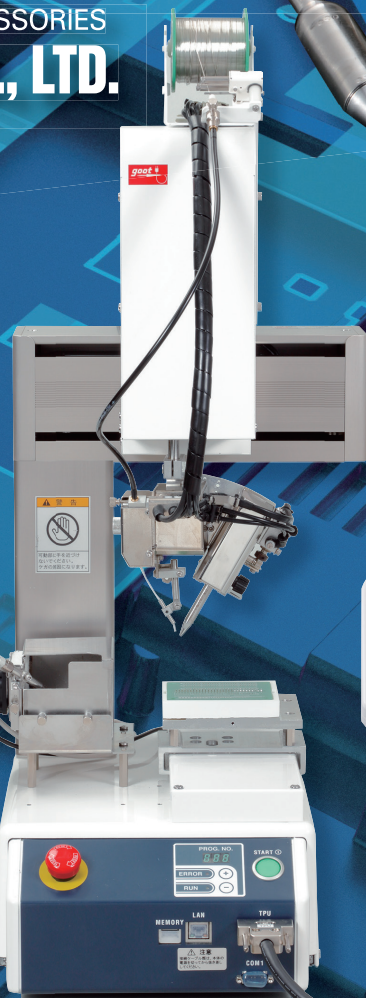
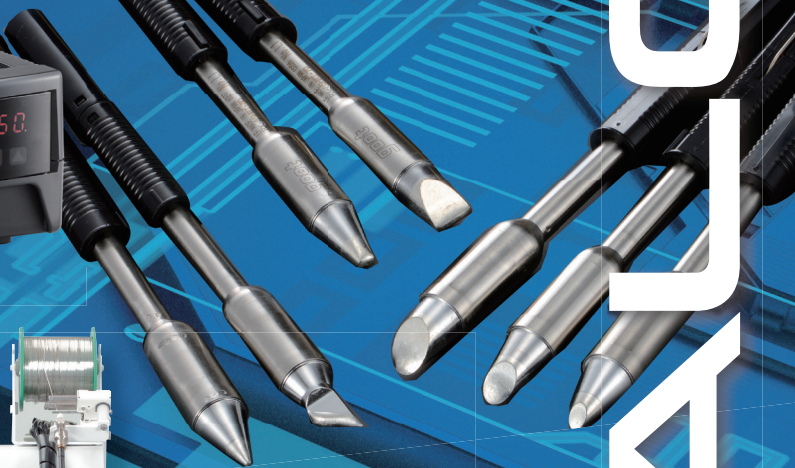
Flux
Soldering iron stands
De-soldering tools

ASSEMBLY AIDS

Nippers, pliers, strippers
Precision tweezers
PC.B. holders /Helpers
Solder pots

HANDTOOLS

Nippers & pliers
Cable strippers
Tool sets



Management
System
ISO 9001:2015



HIROSHIMA JAPAN

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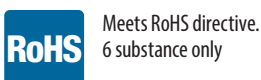
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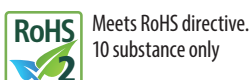
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A product specifically designed to handle lead-free solder applications.

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A product which is manufactured using anti-static materials.



Material Safety Data Sheet available.



Meets EC directives.

PRODUCTS POWER CONSUMPTION AND SAFETY STANDARD

MODEL	Voltage	Power Consumption	CE	Argentina	Australia
CS-21	110 V, 220 V, 240 V	20 W			
CS-21/22	220 V	18-19 W	✓		
CS-21/24	230-240 V	18-19 W	✓		
CS-31	110 V, 120 V, 220 V, 240 V	25 W			
CS-31/22	220 V	20-21 W	✓		
CS-31/24	230-240 V	20-21 W	✓		
CXR-31	110 V, 120 V, 220-230 V	22 W			
CXR-31/22	220-230 V	18-19 W	✓		
CXR-41	110 V, 120 V, 220-230 V, 240 V	30 W			
CXR-41/22	220-230 V	20-21 W	✓		
CXR-41/24	230-240 V	20-21 W	✓		
CXR-60	110-120 V, 220-240 V	28 W			
	220-240 V	24-28 W	✓		
CXR-80	110-120 V, 220-240 V	32 W			
	220-240 V	30-34 W	✓		
CXR-100	110-120 V, 220-240 V	38 W			
	220-240 V	37-42 W	✓		
HP-150	110 V, 120 V, 220 V, 240 V	110 W			
HP-200	110 V, 120 V, 220 V, 240 V	150 W			
HP-300	110 V, 120 V, 220 V, 240 V	200 W			
KS-20R	110 V, 120 V, 220 V	23 W			
	240 V	19 W			
KS-20R/22	220-230 V	23-29 W	✓	✓	
KS-20R/24	230-240 V	18-22 W	✓		
KS-30R	110 V, 120 V, 220 V, 240 V	28 W			
KS-30R/22	220-230 V	30-33 W	✓	✓	
KS-30R/24	230-240 V	27-30 W	✓		
KS-40R	110 V, 120 V, 220 V, 240 V	35 W			
KS-40R/22	220-230 V	34-42 W	✓	✓	
KS-40R/24	230-240 V	31-38 W	✓		
KS-60R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KS-60R/22	220-230 V	45-54 W	✓	✓	
KS-60R/24	230-240 V	42-49 W	✓		
KS-80R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KS-80R/22	220-230 V	45-54 W	✓	✓	
KS-80R/24	230-240 V	42-49 W	✓		
KS-100R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KS-100R/22	220-230 V	45-54 W	✓	✓	
KS-100R/24	230-240 V	42-49 W	✓		
KX-20R	110 V, 120 V, 220 V	23 W			
	240 V	19 W			
KX-20R/22	220-230 V	23-29 W	✓	✓	
KX-20R/24	230-240 V	18-22 W	✓		
KX-30R	110 V, 120 V, 220 V, 240 V	28 W			
KX-30R/22	220-230 V	30-33 W	✓	✓	
KX-30R/24	230-240 V	27-30 W	✓		
KX-40R	110 V, 120 V, 220 V, 240 V	35 W			
KX-40R/22	220-230 V	34-42 W	✓	✓	
KX-40R/24	230-240 V	31-38 W	✓		
KX-60R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KX-60R/22	220-230 V	45-54 W	✓	✓	
KX-60R/24	230-240 V	42-49 W	✓		
KX-80R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KX-80R/22	220-230 V	45-54 W	✓	✓	
KX-80R/24	230-240 V	42-49 W	✓		
KX-100R	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
KX-100R/22	220-230 V	45-54 W	✓	✓	

MODEL	Voltage	Power Consumption	CE	Argentina	Australia
KX-100R/24	230-240 V	42-49 W	✓		
KYP-60	110 V	30/ 60W			
	120 V, 220 V, 240 V	30/ 60W			
KYP-60/22	220-230 V	56-58 W	✓	✓	
KYP-60/24	230-240 V	59-61 W	✓		
KYP-70	110 V	30/ 60W			
	120 V, 220 V, 240 V	30/ 60W			
KYP-70/22	220-230 V	56-58 W	✓	✓	
KYP-70/24	230-240 V	59-61 W	✓		
MI-6-6 V	6 V	6 W	✓		
	5-6 V D.C.	4-6 W	✓		
MI-6-12 V	12 V	6 W	✓		
	11-12 V D.C.	5-6 W	✓		
POT-21C	110 V, 120 V, 220 V, 240 V	130 W			
POT-21C/22	220-230 V	130-142 W	✓		
POT-21C/24	230-240 V	120-130 W	✓		
POT-23C	110 V, 120 V, 220 V, 240 V	130 W			
POT-23C/22	220-230 V	130-142 W	✓		
POT-23C/24	230-240 V	120-130 W	✓		
POT-28C	110 V, 120 V, 220 V, 240 V	130 W			
POT-28C/22	220-230 V	130-142 W	✓		
POT-28C/24	230-240 V	120-130 W	✓		
POT-100C	110 V, 120 V, 220 V, 240 V	440 W			
POT-100C/22	220-230 V	390-520 W	✓		
POT-100C/24	230-240 V	360-480 W	✓		
POT-200C	110 V, 120 V, 220 V, 240 V	720 W			
POT-200C/22	220-230 V	690-730 W	✓		
POT-200C/24	230-240 V	670-720 W	✓		
POT-103C	110-120 V	900 W			
	220-240 V	900 W	✓		
POT-203C	110-120 V	1400 W			
	220-240 V	1400 W	✓		
POT-50C	110-120 V	470-610 W			
	220-240 V	370-430 W			
	220-240 V	370-430 W	✓		
PX-201	110-120 V	70 W			
	220-240 V	70 W			
	220-240 V	23 W	✓	✓	
PX-335	110-120 V	90-130 W			
	220-240 V	85-120 W			
	220-240 V	15W	✓		✓
PX-338	110-120 V	90-130 W			
	220-240 V	75-110 W			
	220-240 V	18 W	✓		✓
PX-342	110-120 V	90-130 W			
	220-240 V	75-110 W			
	220-240 V	23 W	✓		✓
FD-100	100-240 V	8 W			
	100-240 V	8 W	✓		
TM-200	100-240 V		✓		
RX-701AS	110 V, 120 V, 220 V, 230 V, 240 V	65 W			
	220 V, 230 V, 240 V	65 W	✓		✓ (240 V)
RX-711AS	110 V, 120 V, 220 V, 230 V, 240 V	65 W			
	220 V, 230 V, 240 V	65 W	✓		✓ (240 V)
RX-802AS / RX-802ASPH	110 V, 120 V, 220 V, 230 V, 240 V	80 W			
	220 V, 230 V, 240 V	80 W	✓		
RX-852AS	110-120 V, 220-240 V	145-170 W			
	220-240 V	145-170 W	✓		
RX-822AS	110-120 V, 220-240 V	220-260 W			
	220-240 V	220-260 W	✓		
RX-892AS	100-240 V	560-630 W	✓		

PRODUCTS POWER CONSUMPTION AND SAFETY STANDARD

MODEL	Voltage	Power Consumption	CE	Argentina	Australia
SVS-500AS	110 V, 120 V	200 W			
	220-240 V	270-300 W			
	220-240 V	270-300 W	✓		
TP-100	110-120 V	80 W			
	220-240 V	70-75 W			
	220-240 V	70-75 W	✓	✓	
TP-100AS	110-120 V	80 W			
	220-240 V	70-75 W			
	220-240 V	70-75 W	✓	✓	
TP-200AS	110 V, 120 V	130 W			
	220-240 V	170-200 W			
	220-240 V	170-200 W	✓		
TQ-77	110-120 V	15/150 W			
	220-240 V	20/200 W			
	220-240 V	32-35 W	✓	✓	
TQ-95	110-120 V	15/150 W			
	220-240 V	20/200 W			
	220-240 V	32-35 W	✓	✓	

KOREA

MODEL	Voltage	Power Consumption
CS-21/22	220 V AC 60 Hz	19 W
CS-31/22	220 V AC 60 Hz	21 W
CXR-31	220 V AC 60 Hz	22 W
CXR-41	220 V AC 60 Hz	30 W
PX-201	220 V AC 60 Hz	70 W
RX-701AS	220 V AC 60 Hz	65 W
RX-711AS	220 V AC 60 Hz	65 W
RX-802AS	220 V AC 60 Hz	80 W
RX-802ASPH	220 V AC 60 Hz	80 W
RX-812AS	220 V AC 60 Hz	80 W
RX-822AS	220 V AC 60 Hz	222 W
RX-852AS	220 V AC 60 Hz	145 W
SVS-500AS	220 V AC 60 Hz	270 W
SVS-580AS	220 V AC 60 Hz	270 W
TP-100	220 V AC 60 Hz	70 W
TP-100AS	220 V AC 60 Hz	70 W
TP-200AS	220 V AC 60 Hz	170 W
TQ-77	220 V AC 60 Hz	80 W
TQ-95	220 V AC 60 Hz	80 W
XST-80	220 V AC 60 Hz	80 W

SOLDERING SYSTEM	SOLDERING IRONS	AUTOMATIC SOLDER FEEDER	SOLDERING TESTER TIP THERMOMETER	SOLDER POTS	SURFACE-MOUNT /SMT PRODUCTS	DESOLDERING PRODUCTS	SOLDERING ACCESSORIES	SOLDERING WORK MATERIALS	HEATED TOOLS	HAND TOOLS
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SOLDERING SYSTEM

SOLDERING SYSTEM

SOLDERING SYSTEM
SOLDER FEEDER UNIT
SOLDERING UNIT
DIAGONAL DRIVER
SOLDER REEL HOLDER
TIP CLEANER

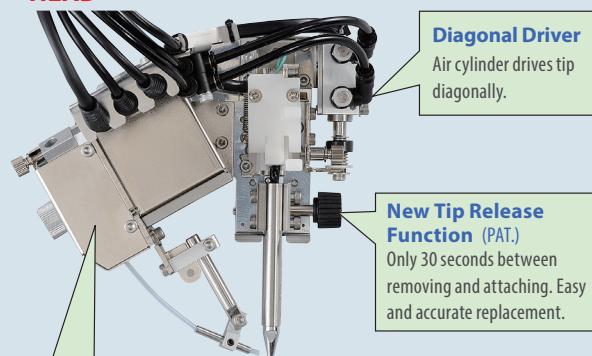


**Economical
Soldering System**



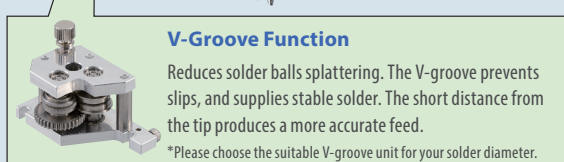
Desktop Soldering System FA-1000

■ HEAD



Diagonal Driver
Air cylinder drives tip diagonally.

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



V-Groove Function

Reduces solder balls splattering. The V-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.

■ 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.

■ 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)

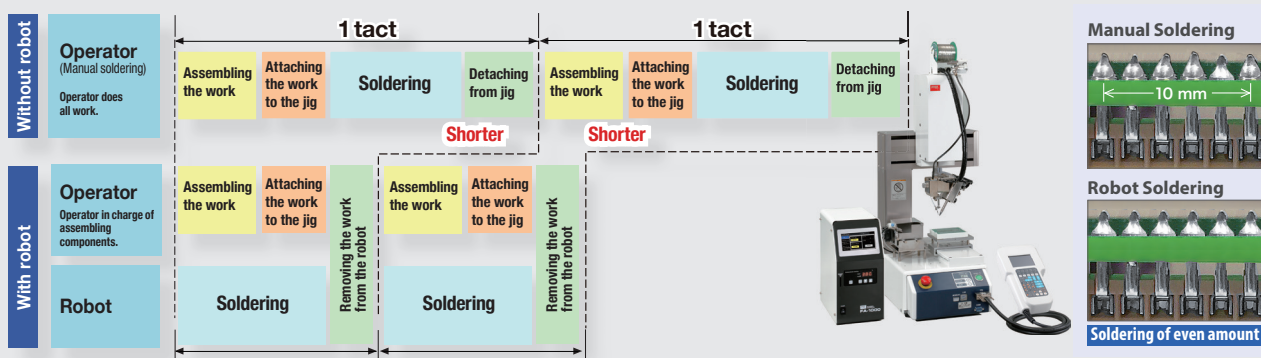
Shows analog voltage of 1-5 V of the tip temperature. Connecting to a data logger (on the market) helps to control the soldering temperature.



*The robot main body is not included. For the robot, please refer to [p.10](#)

Better soldering operation time and quality

Operator and robot divide the work and operate simultaneously → High efficiency/Lower costs
Does not rely on the operator's soldering skills → High quality solderings



FA-1000 series Units in Standard Configuration

Functions required for automatic soldering are sold as separate units.
Lower price point can be realized by purchasing necessary units separately.

■Soldering Unit

FA-1000SD (Tip not included)

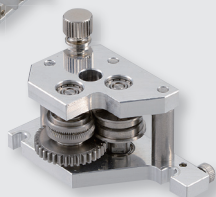
Compact and easily installed on robots and devices.
Built-in linear guide makes high-precision soldering possible.
(Stroke length 10mm)
Easier to replace tips with new improved mechanism.



■V-Groove Unit

FA-1000VU

Swappable gearbox can make V-groove. Vertical grooved rollers prevent solder slippage.



Model	Solder Dia.
FA-1000VU-05	ø0.5mm
FA-1000VU-06	ø0.6mm
FA-1000VU-08	ø0.8mm
FA-1000VU-10	ø1.0mm

Model	Solder Dia.
FA-1000VU-12	ø1.2mm
FA-1000VU-16	ø1.6mm

Please ask us about Ø0.3 or Ø0.4.

■Solder Feeder Unit

FA-1000FD

Stepping motor controls feed amount precisely. Solder wire diameter can be changed by replacing V-groove unit / Clog-detection unit only. Use convenient solder-feeding knob to adjust position of solder feed.



■Clog-Detection Unit

FA-1000FDB

Detects solder clogs immediately. Prevent solder buckling. (When using FA-1000FD)



Model	Solder Dia.
FA-1000FDB-05	ø0.5mm
FA-1000FDB-06	ø0.6mm
FA-1000FDB-10	ø0.8mm ø1.0mm
FA-1000FDB-16	ø1.2mm ø1.6mm

■Control Unit

FA-1000

High performance control unit.
256 soldering conditions can be registered.

- Easy-to-operate multi-language touch panel
- Memory card function (option)
- Tip temperature output to monitor (option)



■Air Blow Cleaner

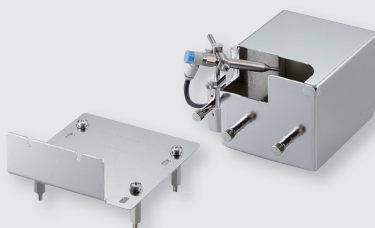
FA-1000CL

Fan to suck up flux during air-blow cleaning is included. Easy to clean and maintain.

To attach Air Blow Tip Cleaner, you need Fixing Plate for Air Blow Cleaner.

FA-1000CLP1 : For small robot

FA-1000CLP2 : For big robot



■Diagonal Driver

FA-1000SL

The up and down strokes of the FA-1000SD (Soldering unit) are air-driven. Up/Down detection sensor.

Stroke length
10mm / 4mm



■N₂ Nozzle

FA-1000PH

N₂ soldering is available by just attaching the applicable tip.

Model	Compatible Tips					
FA-1000PH-A	1.6SD	3.2SD	—	—	—	—
FA-1000PH-B	2PC	4C	1.6D	0.8 W	1.2W	—
FA-1000PH-C	3PC	2.4D	3.2D	3.2DV	—	—



■Solder Reel Holder

FA-1000RH1

Solder-Finish Sensor

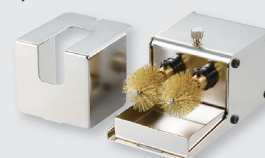
*Solder not included



■Brush Tip Cleaner

FA-1000BC

Removes scorching of flux on the tip that cannot be removed by Air-blow cleaner.



■Solder-Receiving Tube

FA-1000VTB

This tube carries solder from the solder reel holder to the V-groove unit. Select the most suitable tube by robot type and solder diameter.



Robot	Solder Dia.					
	0.5mm	0.6/ 0.65mm	0.8mm	1.0mm	1.2mm	1.6mm
FA-3204A (200mm)	FA-1000VTB-05-200	FA-1000VTB-06-200	FA-1000VTB-08-200	FA-1000VTB-10-200	FA-1000VTB-12-200	FA-1000VTB-16-200
FA-3304A (300mm)	FA-1000VTB-05-300	FA-1000VTB-06-300	FA-1000VTB-08-300	FA-1000VTB-10-300	FA-1000VTB-12-300	FA-1000VTB-16-300
FA-3404A (400mm)	FA-1000VTB-05-400	FA-1000VTB-06-400	FA-1000VTB-08-400	FA-1000VTB-10-400	FA-1000VTB-12-400	FA-1000VTB-16-400

We have a cheap N₂ generator. Please refer to [p25](#)

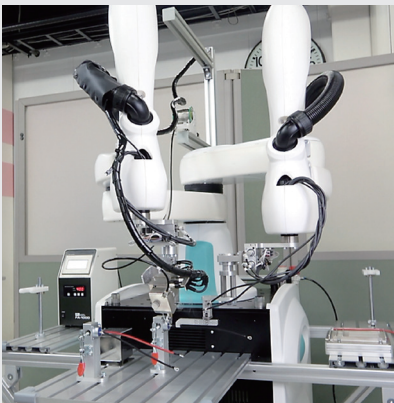
SOLDERING SYSTEM



Example with Desktop Robot

- Easy teaching by soldering program.
- Easy operating Teaching Pendant.
- Possible to adjust positioning by camera.
(optional)

FA-3404A 4-Axis Sample Robot Configuration



Example with Dual-Arm SCARA Robot **Kawasaki DuAro**

• By combining with an unused robot, a simple soldering robot can be constructed.

By combining with an off-the-shelf single-axis robot, a low-price automatic soldering line can easily be realized.





Example with Collaborative Robot **DENSO WAVE COBOTTA**

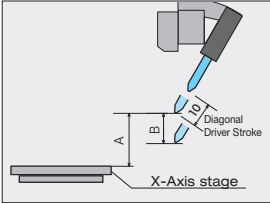
SPECIFICATIONS

■ Specifications (Control Unit/ Solder Feeder Unit/ Soldering Unit)

Control Unit FA-1000	Rated Voltage	110–120 V, 220–240 V AC 50/ 60 Hz
	Power Consumption	170–200 W
	Dimensions	140 (W) x 280 (H) x 240 (D) mm
	Weight	8.6 kg
	Number of Soldering Programs	256 programs
	Tip Temperature Range	50–450°C
	Tip Temperature Preset	6 settings
Solder Feeder Unit FA-1000FD	Input Air Pressure	0.4–0.5 MPa
	Solder Diameter	ø0.5 ø0.6 (ø0.65) ø0.8 ø1.0 ø1.2 ø1.6 mm
Soldering Unit FA-1000SD	Length	145 mm
	Weight	Approx. 950 g (Solder Feeder Unit included)
	Heater Voltage/ Power	24 V/ 150 W

■ Specifications (Robot)

Model		FA-3204A	FA-3304A	FA-3404A
Axis Type		4-axis		
Shape		Cantilever type	Gate type	Cantilever type
Operating Range	X, Y -axis	200 × 200 mm	300 × 320 mm	400 × 400 mm
	Z -axis *Height B	50 mm	100 mm	150 mm
	R -axis		(-)90 -(+)90°	
Height from tip to X Axis stage *Height A		88 mm	183 mm	183 mm
Maximum Speed	X,Y -axis	700 mm/ s	900 mm/ s	
	Z -axis	250 mm/ s	400 mm/ s	
	R -axis	600°/ s	900°/ s	
Repeatability	X, Y, Z -axis	±0.01 mm		
	R -axis	±0.008°		
Teaching Method		Teaching pendant or PC		
Program Capacity		999		
Maximum Soldering Points		32,000		



Specifications may change without notice.

Brush for Brush Tip Cleaner



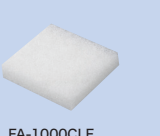
FA-1000BU

Solder Nozzle Tube



FA-1000N

Air Blow Cleaner Filters



FA-1000CLF

Teaching Pendant



SENSOR UNIT TM-100SU **p.48**



TIP THERMOMETER TM-100 **p.48**



FOR YOUR BETTER TEMPERATURE CONTROL

Example of customization



Dual Head Configuration

Easy detection and correction of tip position.

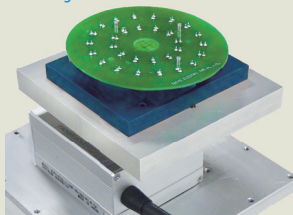


Positioning Camera (Optional)

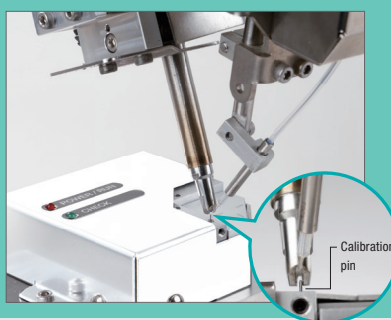
We can provide various customizations adjusted to your work.

Example

Mounting the turntable to the x-axis.



Mechanical Tip Correcting Unit (PAT.P)



Features

Calibration pin detects and corrects position of grooved tip.

Simple, compact unit. Insert new tip, set up the unit, and run the program.

Tip corrects automatically.

REPLACEMENT PARTS / OPTIONS

Robot Mounting Block Exclusive blocks to mount FA-1000SD, FD to robot.

Robot Mounting Block

FA-1000J4BL

Air Blow Cleaner Filters/ Brush for Brush Tip Cleaner

Air Blow Filter (10 pcs.)

FA-1000CLF

Brush Cleaner (2 pcs.)

FA-1000BU

PC Software

PC Software for Robot (4-Axis.)

FA-JR3000-PC2

Teaching Pendant

4-Axis Robot Teaching Pendant

FA-JR3000-TP2

Solder-Nozzle Tube

ø0.5 mm (5 pcs.)

FA-1000NW-05

ø0.6 mm (5 pcs.)

FA-1000N-06

ø0.8 mm (5 pcs.)

FA-1000N-08

ø1.0 mm (5 pcs.)

FA-1000N-10

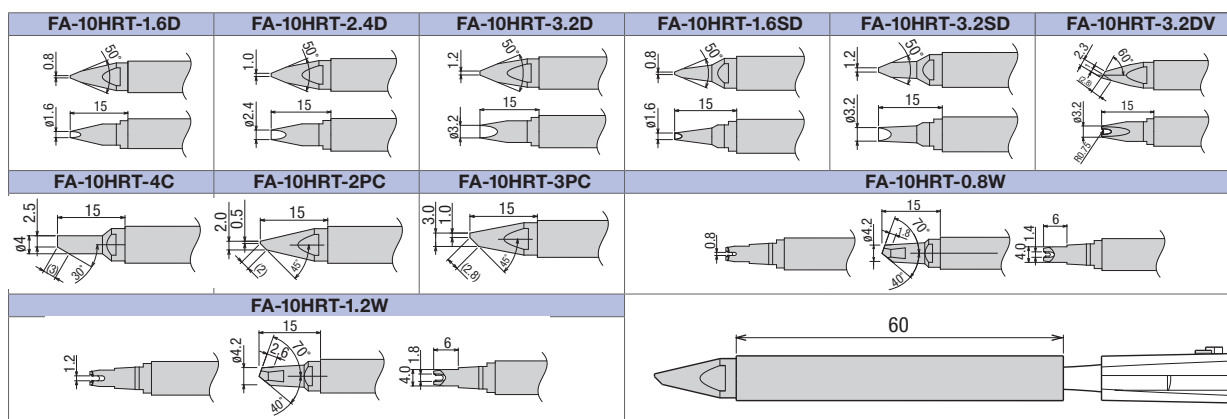
ø1.2 mm (5 pcs.)

FA-1000N-12

ø1.6 mm (5 pcs.)

FA-1000N-16

REPLACEMENT TIPS



SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED STATIONS]

500 W Ultra high power soldering station RX-892AS



Applicable tips (Standard Configuration) **RX-89HRT series**

p.14



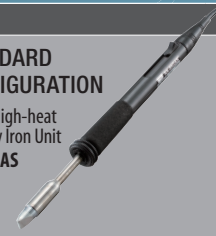
150 W Excellent heat recovery station RX-852AS

p.16



STANDARD CONFIGURATION

150 W High-heat capacity Iron Unit
RX-85GAS
(included)



Can support **p.20**
36 W micro-soldering iron

RX-81GAS
(Sold separately)



Can support **p.18**
80 W stadnard iron unit

RX-80GAS
(Sold separately)



Can support **p.58**
hot tweezers

XST-80G
(Sold separately)



Applicable tips (Standard Configuration) **RX-80/81HRT, 85H(S)RT series**

80 W Ultimate solution for lead-free soldering RX-802AS

p.18



STANDARD CONFIGURATION

80 W Standard Iron Unit
RX-80GAS (included)



Can support **p.20**
36 W micro-soldering iron

RX-81GAS
(Sold separately)



Can support **p.58**
hot tweezers

XST-80G
(Sold separately)



Applicable tips (Standard Configuration) **RX-80/81HRT series**

Soldering Tester / Tip Thermometer

p.48



Corresponding to wide temperature range *0-700°C (1292°F), as is needed for soldering work.

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.

Automatic Solder Feeder



FD series

p.44

One-handed soldering work possible. ON/OFF switch is built into the Tube Assy FD-100TA (sold separately).

ø0.6-1.6 mm lead-free solder applicable.

Solder feed method for reducing solder clogs.

150 W / 80 W Dual-port soldering station

RX-822AS ^{p.22} 2 soldering irons can be used.



Pictured tips not included.

STANDARD CONFIGURATION

150 W High-heat capacity Iron Unit
RX-85GAS
(included)



80 W Standard Iron Unit
RX-80GAS (included)

Can support ^{p.20} 36 W micro-soldering iron

RX-81GAS
(Sold separately)



Can support ^{p.18} 80 W standard iron unit

RX-80GAS
(Sold separately)

Cannot support double 150 W irons.



Can support ^{p.58} hot tweezers

XST-80G
(Sold separately)



Applicable tips (Standard Configuration)

RX-80/81HRT, 85H(S)RT series

Solder or desolder small parts in small space

RX-812AS ^{p.20}



Pictured tips not included.

STANDARD CONFIGURATION

Micro-soldering Applicable Iron
RX81GAS
(included)



36 W Standard Iron Unit
RX-81GAS (included)

Can support ^{p.18} 80 W standard iron unit

RX-80GAS
(Sold separately)



Can support ^{p.58} hot tweezers

XST-80G
(Sold separately)



Applicable tips (Standard Configuration)

RX-80/81HRT series

Nitrogen improves solder wetting and fillet shape

RX-802ASPH ^{p.24}

Nitrogen improves solder wetting and fillet shape.

A Nitrogen gas generator is required



Pictured tips not included.

STANDARD CONFIGURATION

N2 Gas Adaptive Iron Unit
RX80GASPH
(included)



Can support ^{p.20} 36 W micro-soldering iron

RX-81GAS
(Sold separately)
cannot be used as a N2 soldering iron.



Can support ^{p.18} 80 W standard iron unit

RX-80GAS
(Sold separately)



Can support ^{p.58} hot tweezers

XST-80G
(Sold separately)



cannot be used as a N2 soldering iron.

Applicable tips (Standard Configuration)

RX-80HRTPH series

Handpiece Grip Rubber (Anti-static)



RX-80RB
RX-80RB-BK
RX-80RB-GR
RX-80RB-OR

Soldering Iron Stand Sponge/Cleaner

ST-53SP

Space-saving compact package



ST-40BW

Soldering Tweezers Stand

^{p.69}
ST-28



N2 Station NC-100R

^{p.25}



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

SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED STATIONS]

Trouble with heavy-duty and high-capacity parts?

ULTRA HIGH POWER TEMPERATURE CONTROLLED SOLDERING STATION RX-892AS

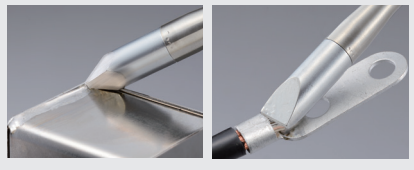
World-Beating 500 W

World's only 500 W station with digital temperature control

*Based on original research.

100 V - 240 V Applicable

Good for many voltages



Shielded boxes and cases

Thick cable parts

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

Tip not included.



Unprecedented Tip-Temperature Recovery Features

Great high recovery from world's first high-density 500 W heater in combination with our original sensitive sensor. We will shock you!

Multi-Voltage

Accepts 100 V - 240 V. Adaptable and worry-free.

Revolutionary Functions

Advanced intelligent features in standard installation.

Time to Presolder 22 mm² Cable

RX-852AS (Our High Watt Station)

32s

RX-892AS (This Model)

16s



Grip is Light and Nimble

90% lighter than standard 500 W sheet metal irons. Light enough to use on PCBs. Will save your hands from repetitive strain. Grip does not get too hot, either.



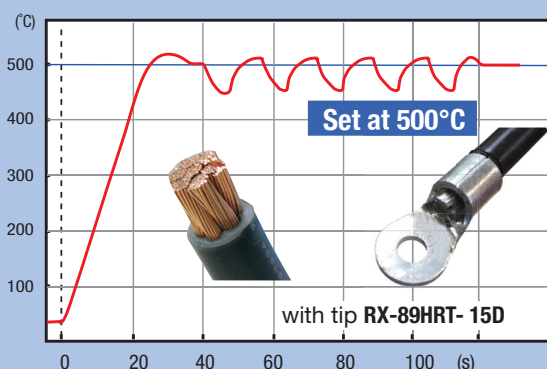
INCLUDED



PRODUCT SPECIFICATIONS / FUNCTIONS

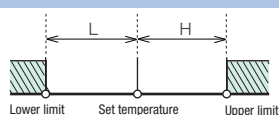
TIP-TEMPERATURE RECOVERY FEATURES

Five consecutive solderings on 22 mm² cable



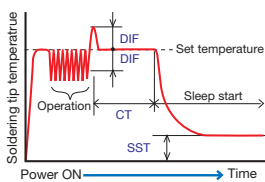
HIGH/LOW TEMPERATURE ALARM

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.

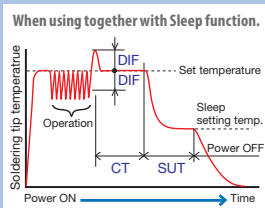
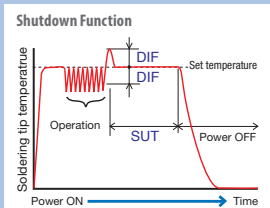


SLEEP FUNCTION RELEASE (PAT.)

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.

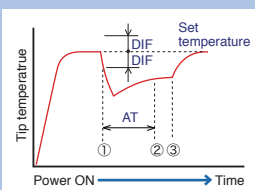
SHUTDOWN FUNCTION



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.

SPECIFICATIONS

Model	RX-892AS
Voltage	100-240 V AC 50/ 60 Hz
Power Consumption	560-630 W
Power Cord Length	1.5 m inlet type
Temperature Setting Range	50-500°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	RX-89GAS
Accessories	Iron Unit (RX-89GAS) Soldering Iron Stand (ST-29)

Control Unit

Output Voltage	40 V DC
Dimensions	136 (W) × 240 (H) × 184 (D) mm
Weight	4.3 kg

Iron Unit

Model	RX-89GAS
Voltage / Consumption	40 V DC / 500 W
Ground Resistance	2 Ω or less
Heater	Nichrome heater
Cord Length	1.8 m
Length	232 mm (with RX-89HRT-15D)
Weight	120 g (with RX-89HRT-15D)

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

For replacement tips, refer to p. 28

REPLACEMENT PARTS / OPTIONS

Iron Unit RX-89GAS Tip is not included	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW (2pcs/set)
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SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED STATIONS]

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



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



Tip not included.

New Soldering Iron Stand
More stable, better operation

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

Excellent Heat Recovery (PAT.)



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

Thick Tip Coating for Lead-free Soldering

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

RX-80/81HRT Tips also Available

More than 50 tips are available, including the RX-80/81HRT tips.



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.

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.



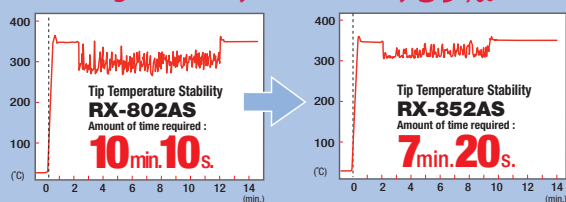
INCLUDED



PRODUCT SPECIFICATIONS / FUNCTIONS

TIP-TEMPERATURE RECOVERY FEATURES

Soldering efficiency increased by 39%!

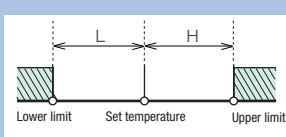


A generous amount of lead-free solder on a land of 20 mm dia. dissolving 35 points in succession at 350°C.

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

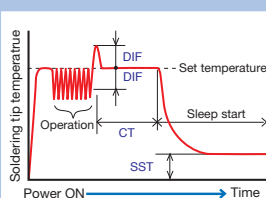
HIGH/LOW TEMPERATURE ALARM

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.

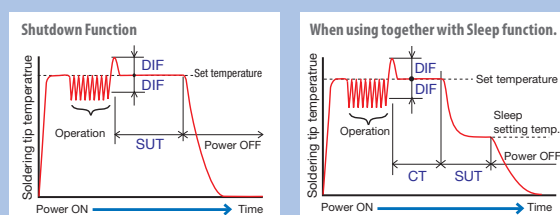


SLEEP FUNCTION RELEASE (PAT.)

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.

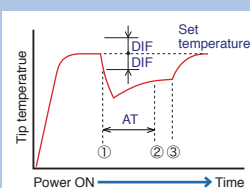
SHUTDOWN FUNCTION



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	110-120 V, 220-240 V AC 50/ 60 Hz
Power Consumption	145-170 W
Power Cord Length	1.5 m inlet type
Temperature Setting Range	50-450°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	150 W High-heat-capacity Iron Unit RX-85GAS (included) 80 W Standard Iron Unit RX-80GAS (sold separately) Micro-Iron Unit RX-81GAS (sold separately) Soldering Tweezers Unit XST-80G (sold separately)
Accessories	Iron Unit (RX-85GAS) Soldering Iron Stand (ST-22)

Control Unit

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

Iron Unit

Model	RX-85GAS
Iron Unit	150 W High-heat-capacity Iron Unit
Voltage/Consumption	24 V AC / 150 W
Ground Resistance	2 Ω or less
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Cord Length	1.5 m
Length	174 mm (with RX-85HRT-5D)
Weight	39 g (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. 28 & p. 29

For Soldering Tweezers XST-80G, refer to p. 58

REPLACEMENT PARTS / OPTIONS

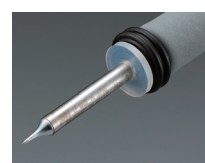
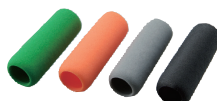
RX-852AS Iron Unit RX-85GAS  Tip is not included	RX-802AS Iron Unit RX-80GAS  Tip is not included	RX-812AS Iron Unit RX-81GAS  Tip is not included	Soldering Iron Stand Sponge ST-53SP 	Soldering Iron Stand Cleaner ST-40BW  (2pcs/set)	Flux Guard Rubber RX-80P 
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Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

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

Applicable Iron Unit : RX-80GAS/ RX-85GAS/ RX-81GAS



with RX-80P



with RX-80RB

SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED STATIONS]

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



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



New Soldering Iron Stand
More stable, better operation

Tip not included.

CALIBRATION SERVICES
We provide calibration and/or certification for a fee.

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 (PAT.)

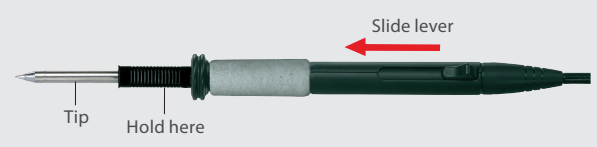
Patented thermal-insulation grip permits comfortable and safe work.

Thick Tip Coating for Lead-free Soldering

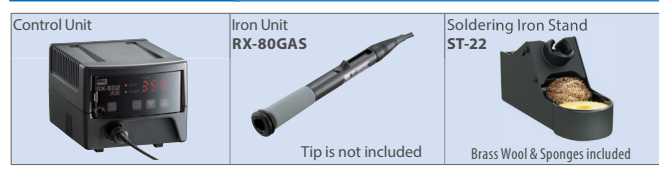
All tips have extra-thick iron plating, to resist erosion by lead-free solder.

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.



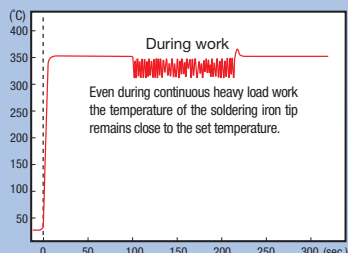
INCLUDED



PRODUCT SPECIFICATIONS / FUNCTIONS

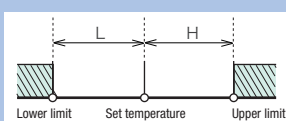
TIP-TEMPERATURE RECOVERY FEATURES

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



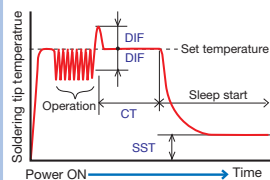
HIGH/LOW TEMPERATURE ALARM

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.

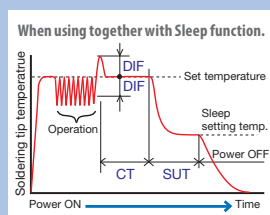
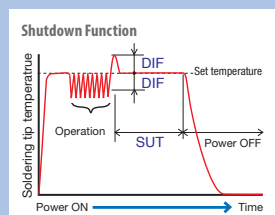


SLEEP FUNCTION RELEASE (PAT.)

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.

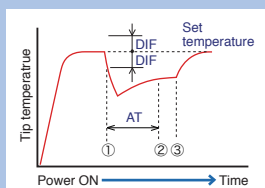
SHUTDOWN FUNCTION



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	110 V, 120 V, 220 V, 230 V, 240 V AC 50/ 60 Hz
Power Consumption	80 W
Power Cord Length	1.2 m inlet type
Temperature Setting Range	50-450°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	80 W Standard Iron Unit RX-80GAS (included) Micro-Iron Unit RX-81GAS (sold separately) Soldering Tweezers Unit XST-80G (sold separately)
Accessories	Iron Unit (RX-80GAS) Soldering Iron Stand (ST-22)

Control Unit

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

Iron Unit

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

For Soldering Tweezers XST-80G, refer to p. 58

REPLACEMENT PARTS / OPTIONS

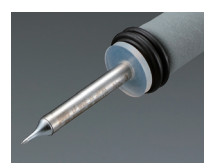
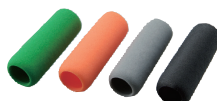
RX-802AS Iron Unit RX-80GAS	RX-812AS Iron Unit RX-81GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW	Flux Guard Rubber RX-80P
Tip is not included	Tip is not included		(2pcs/set)	

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

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

Applicable Iron Unit : RX-80GAS/ RX-85GAS/ RX-81GAS



with RX-80P



with RX-80RB

SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED STATIONS]

Solder or desolder small parts in small spaces.



TEMPERATURE-CONTROLLED LEAD-FREE MICRO SOLDERING STATION

RX-812AS

RX-812AS package uses Lead-Free Soldering Station RX-802AS.



VERY THIN GRIP
Improved handling and visibility.

Tip not included.

FASTEST IN ITS CLASS
4 seconds to set temperature

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

Ergonomic Grip Design

New grip is designed for and adapted to $\varnothing 2.9$ mm superfine tip.

Fastest in Its Class

Reaches set temperature within 4 seconds after turning power on.

Wide Variety of Replacement Tips

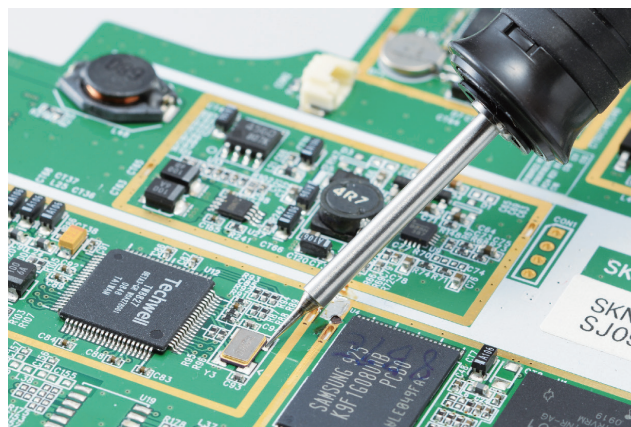
80 W RX-80HRT Tips also available instead of RX-81HRT tip.

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.



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



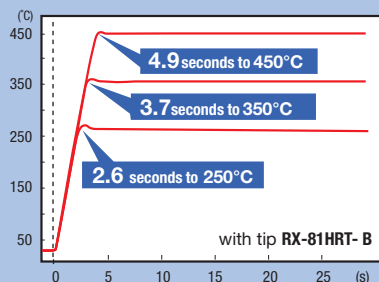
Tip is not included

Brass Wool & Sponges included

PRODUCT SPECIFICATIONS / FUNCTIONS

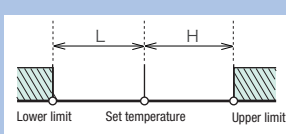
HEATING

RX-812AS reaches 350°C in only 3.7 seconds, and 450°C in 4.9 seconds. Fastest heating in its class.



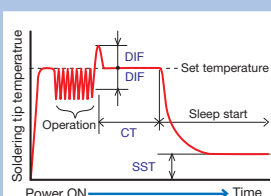
HIGH/LOW TEMPERATURE ALARM

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.

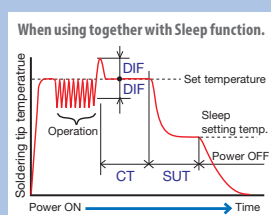
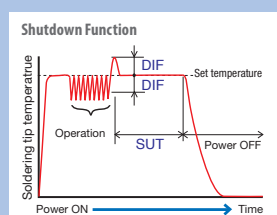


SLEEP FUNCTION RELEASE (PAT.)

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.

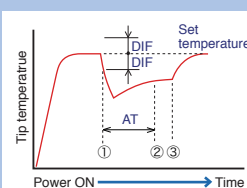
SHUTDOWN FUNCTION



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-812AS
Voltage	110 V, 120 V, 220 V, 230 V, 240 V AC 50/60 Hz
Power Consumption	80 W
Power Cord Length	1.2 m
Temperature Setting Range	50-450°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	Micro-Iron Unit RX-81GAS (included) 80 W Iron Unit RX-80GAS (sold separately) Soldering Tweezers Unit XST-80G (sold separately)
Accessories	Iron Unit (RX-81GAS) Soldering Iron Stand (ST-22)

Control Unit

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

Iron Unit

Model	RX-81GAS
Iron Unit	Micro-Iron Unit
Voltage / Consumption	24 V AC / 72 W
Ground Resistance	2 Ω or less
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Cord Length	1.2 m
Length	149 mm (with RX-81HRT-SB)
Weight	25 g (with RX-81HRT-SB)

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. 28

For Soldering Tweezers XST-80G, refer to p. 58

REPLACEMENT PARTS / OPTIONS

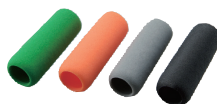
Micro Iron Unit RX-81GAS	80 W Iron Unit RX-80GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW
Tip is not included	Tip is not included		(2pcs/set)

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

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

Applicable Iron Unit : RX-80GAS/ RX-85GAS/ RX-81GAS



with RX-80RB

SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED 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.

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

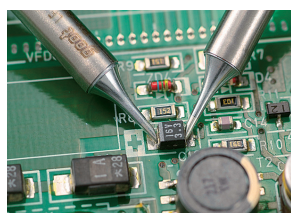
2 Soldering Irons can Be Used

Can be prepared with 2 soldering irons. Allows different types of work [such as micro soldering / high power work (150 W)] at the same time. **Two RX-85GAS (150 W) irons cannot be used together.**



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 50 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.

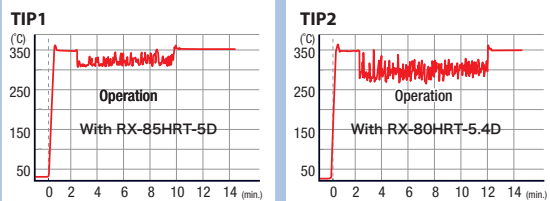


INCLUDED

Control Unit 	Iron Unit 1 RX-85GAS  Tip is not included	Iron Unit 2 RX-80GAS  Tip is not included	Soldering Iron Stands ST-22  Brass Wool & Sponges included
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PRODUCT SPECIFICATIONS / FUNCTIONS

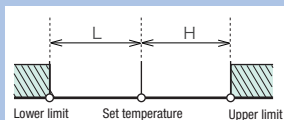
TIP-TEMPERATURE RECOVERY FEATURES



A generous amount of lead-free solder on a land of 20x20mm, dissolving 35 points in succession at 350°C.

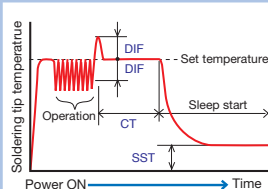
HIGH/LOW TEMPERATURE ALARM

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.

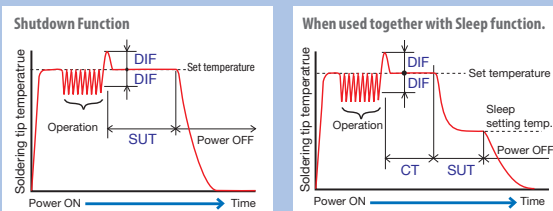


SLEEP FUNCTION RELEASE (PAT.)

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	110-120 V, 220-240 V AC 50/ 60 Hz
Power Consumption	220-260 W
Power Cord Length	1.5 m inlet type
Temperature Setting Range	50-450°C
Insulation Resistance	Over 100 MΩ (500 V DC)
Ripple Temperature	± 5°C (unloaded)
Applicable Iron Units	150 W High-heat-capacity Iron Unit *RX-85GAS (included) 80 W Standard Iron Unit RX-80GAS (included) Micro-Iron Unit RX-81GAS (sold separately) Soldering Tweezers Unit XST-80G (sold separately)
Accessories	Iron Unit (RX-85GAS , RX-80GAS) Soldering Iron Stand (ST-22) × 2

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

Control Unit

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

Iron Unit

Model	RX-80GAS	RX-85GAS
Iron Unit	80 W Standard Iron Unit	150 W High-heat-capacity Iron Unit
Voltage/Consumption	24 V AC / 72W	24 V AC / 72 W-150 W
Ground Resistance	2 Ω or less	
Leak Voltage	Less than 2 mV	
Heater	Nichrome heater	
Cord Length	1.2 m	1.5 m
Length	158 mm (with RX-80HRT-B)	174 mm (with RX-85HRT-5D)
Weight	28 g (with RX-80HRT-B)	39 g (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. 28 & p. 29

For Soldering Tweezers XST-80G, refer to p. 58

REPLACEMENT PARTS / OPTIONS

RX-852AS Iron Unit
RX-85GAS



Tip is not included

RX-802AS Iron Unit
RX-80GAS



Tip is not included

RX-812AS Iron Unit
RX-81GAS



Tip is not included

Soldering Iron Stand Sponge
ST-53SP



Soldering Iron Stand Cleaner
ST-40BW



(2pcs/set)

Flux Guard Rubber
RX-80P



Accessories HANDPIECE GRIP RUBBER (Anti-static)

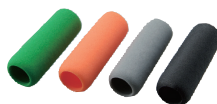
For quick identification of soldering tasks or types.

RX-80RB : gray

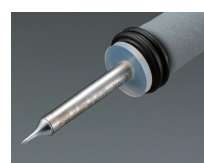
RX-80RB-GR : green

RX-80RB-BK : black

RX-80RB-OR : orange



Applicable Iron Unit : RX-80GAS/ RX-85GAS/ RX-81GAS



with RX-80P



with RX-80RB

SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED 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



Tip not included.

New Soldering Iron Stand
More stable, better operation

CALIBRATION SERVICES
We provide calibration and/or certification for a fee.

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

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



Slim N2 Nozzles

φ6.4 mm slim N2 nozzles. Get into small spaces easily.

Light and Easy-to-use Handpiece

Handpiece weighs only 33 g. 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

Control Unit 	Iron Unit RX-80GASPH  Tip is not included	Soldering Iron Stand ST-22  Brass Wool & Sponges included	Tip changing tool RX-80PHC 
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PRODUCT SPECIFICATIONS / FUNCTIONS

SPECIFICATIONS

Model	RX-802ASPH
Voltage	110 V, 120 V, 220 V, 230 V, 240 V AC 50/ 60 Hz
Power Consumption	80 W
Power Cord Length	1.2 m inlet type
Temperature Setting Range	50–450°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	N ₂ Gas Adaptive Iron Unit *RX-80GASPH (included) 80 W Standard Iron Unit *RX-80GAS (sold separately) Micro-Iron Unit *RX-81GAS (sold separately) Soldering Tweezers Unit *XST-80G (sold separately)
Accessories	Iron Unit (RX-80GASPH) Soldering Iron Stand (ST-22)

For basic performance, please refer to RX-802AS, page 18.

The Iron Unit RX-80GAS/ RX-81GAS/ XST-80G cannot be used as an N₂ soldering iron.

Control Unit

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

Iron Unit

Model	RX-80GASPH
Iron Unit	N ₂ Gas Adaptive Iron Unit
Voltage/Consumption	24 V AC / 72 W
Ground Resistance	2 Ω or less
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Gas Supply Pressure	0.2M Pa (2 kgf/ cm ²)
Cord Length	1.2 m
Length	158 mm (with RX-80HRT-PHB)
Weight	33 g (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.

For replacement tips, refer to p. 29

For Soldering Tweezers XST-80G, refer to p. 58

REPLACEMENT PARTS / OPTIONS

RX-802ASPH Iron Unit RX-80GASPH Tip is not included	RX-802AS Iron Unit RX-80GAS Tip is not included Non-N ₂ , also supported	RX-812AS Iron Unit RX-81GAS Tip is not included Non-N ₂ , also supported	N ₂ O-ring RX-80PHP	Tip changing tool RX-80PHC	Soldering Iron Stand Sponge ST-535P	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.



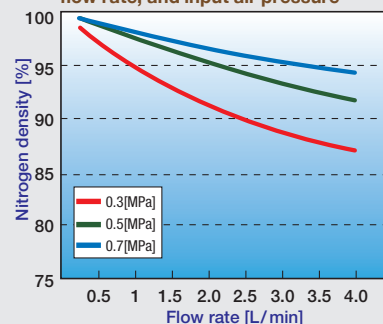
SPECIFICATIONS

Model	NC-100R
Input Pressure	0.3–0.7 MPa
Input Temperature	5–50°C
Nitrogen Generation Density	99.5% or more (0.7 MPa, 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 Tube Dimension	Input: Outer diameter ø6 mm Output : Outer diameter ø4 mm

NITROGEN GENERATION DENSITY

(According to in-house measuring method)

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



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

An example of measured values

SET-UP EXAMPLE RX-802ASPH + NC-100R



SOLDERING IRONS [TEMPERATURE-CONTROLLED STATIONS]

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS
MINI SOLDERING STATIONS
SOLDERING CONTROLLERS



Lightweight, slim handpiece with reduced heat-up!

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



Quick Heat Recovery

New heater with internal sensor achieves 60 W.

Easy to Use

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

High Insulation. Reliable 24 V Output.

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

RX-711AS



New Soldering Iron Stand
More stable, better operation

Comfortable Handpiece

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

Protective Cover (PAT.)

Prevents tampering.

INCLUDED

Control Unit



Soldering Iron
RX-72GAS



PX-60RT-B included

Soldering Iron Stand
ST-27



Brass Wool & Sponges included

REPLACEMENT PARTS / OPTIONS

Heater

RX-72H

Heater Barrel

RX-72HP

collar

TQ-77NUT

Spacer

RX-72SS

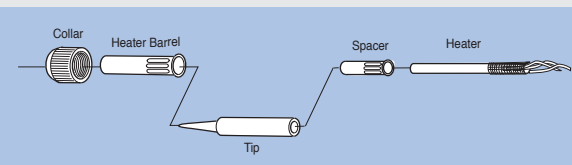
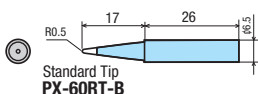
Iron Unit

RX-72GAS

REPLACEMENT TIPS

Wide Variety of Tips

A wide variety of replacement tips for all types of work. Refer to page [P.30](#) for further details.



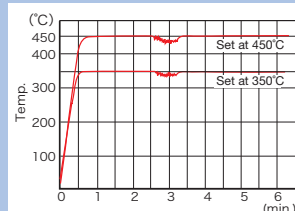
RX-711AS



RX-701AS

TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with PX-60RT-B tip)



SPECIFICATIONS

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

Control Unit

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

Soldering Iron Unit

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

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

Equivalent to IPC/EIA J-STD-001C

High-performance soldering station.

MINI SOLDERING STATIONS PX-501AS/PX-501



Temperature adjustable
250–450°C

Quick Start (PAT.)

Reaches set temperature fast with the Quick Start circuit.

Temperature Calibration

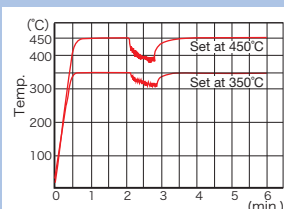
Accurate calibration.

Leakage Current / Insulation-Resistance Measuring Terminal

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

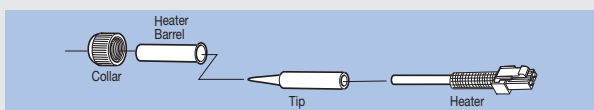
TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively
on 5x5mm land. Approx. 2 s /
land.
(with **PX-60RT-B** tip)



REPLACEMENT PARTS / OPTIONS

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



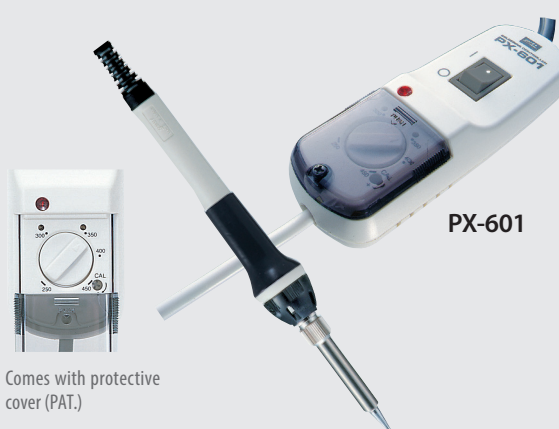
Recommended **ST-27** refer to page [p. 69](#)



ST-27

Accurate temperature control, high-performance compact model.

SOLDERING CONTROLLERS PX-601AS/PX-601



Comes with protective
cover (PAT.)

SPECIFICATIONS

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

Control Unit

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

Soldering Iron Unit

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

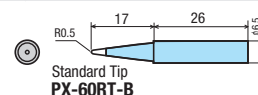
*The length does not include the cord bushing. The weight does not include the cord.

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



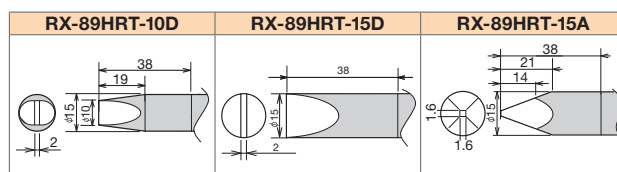
Wide Variety of Tips

A wide variety of replacement
tips for all types of work. Refer
to page [p. 30](#) for further details.



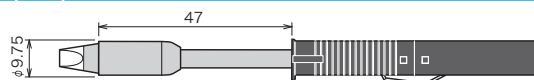
RX-89HRT Series / Applicable Iron Unit (500 W Super High-Power Iron Unit)

Station	RX-892AS
Applicable Iron Unit	RX-89GAS



RX-85HRT Series / Applicable Iron Unit (150 W High-heat-capacity Iron Unit)

Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-85GAS	RX-85GAS	—	—	—



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 Iron Unit (150 W High-heat-capacity Iron Unit)

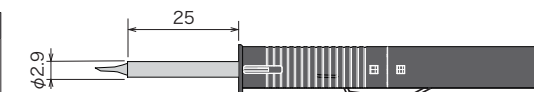
Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-85GAS	RX-85GAS	—	—	—



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-81HRT Series / Applicable Iron Unit (Micro-Soldering Applicable Iron Unit)

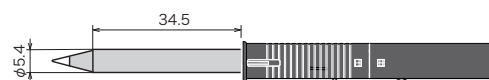
Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-80GAS *RX-81GAS	*RX-80GAS *RX-81GAS	RX-80GAS *RX-81GAS	*RX-80GAS *RX-81GAS	RX-81GAS *RX-80GAS



RX-81HRT-B	RX-81HRT-SB	RX-81HRT-0.6C	RX-81HRT-0.5D	RX-81HRT-SBJ	RX-81HRT-1.5K

RX-80HRT Series / Applicable Iron Unit (80 W Standard Iron Unit)

Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-80GAS RX-85GAS *RX-81GAS	*RX-85GAS *RX-80GAS *RX-81GAS	RX-80GAS *RX-81GAS	*RX-80GAS *RX-81GAS	RX-81GAS *RX-80GAS

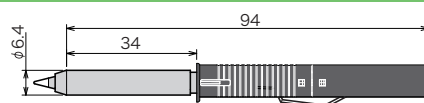


RX-80HRT-B	RX-80HRT-2B	RX-80HRT-SB	RX-80HRT-LB	RX-80HRT-LBJ

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-2CF	RX-80HRT-2CD	RX-80HRT-3C
RX-80HRT-3CF	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-80HRT-PH Series / Applicable Iron Unit

Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	—	—	—	RX-80GASPH	—

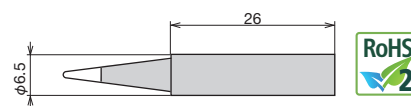


RX-80HRT-PHB	RX-80HRT-PH2B	RX-80HRT-PHSB	RX-80HRT-PHLB	RX-80HRT-PHLBJ	RX-80HRT-PHBM
RX-80HRT-PH1BC	RX-80HRT-PH2.3BC	RX-80HRT-PH3BC	RX-80HRT-PH0.5C	RX-80HRT-PH1C	RX-80HRT-PH2C
RX-80HRT-PH2CD	RX-80HRT-PH3C	RX-80HRT-PH3CD	RX-80HRT-PH4C	RX-80HRT-PH4.7C	RX-80HRT-PH0.8D
RX-80HRT-PH1.2D	RX-80HRT-PH1.6D	RX-80HRT-PH2.4D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

SOLDERING IRONS [REPLACEMENT TIPS]

PX-60RT Series

Applicable Model	RX-701AS RX-711AS	PX-501AS PX-501	PX-601AS PX-601	CXR-31 CXR-41
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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	

FA Series

Applicable Model	FA-1000 series
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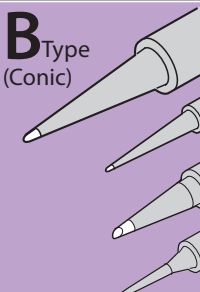
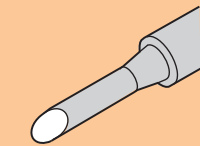
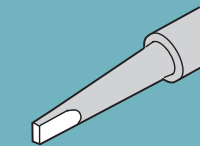
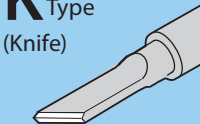
FA-10HRT-1.6D	FA-10HRT-2.4D	FA-10HRT-3.2D	FA-10HRT-1.6SD	FA-10HRT-3.2SD	FA-10HRT-3.2DV
FA-10HRT-4C	FA-10HRT-2PC	FA-10HRT-3PC	FA-10HRT-0.8W		
FA-10HRT-1.2W					

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, SLP, 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. 1 mm	△	△	△	○	◎	◎	×	◎	○	◎	×	Small heat load
	2C face approx. 2 mm	○	△	○	○	△	△	△	△	◎	△	△	Moderately large area or harness
	3C face approx. 3 mm		×	○	○	×	×	◎	×	◎	×	○	Large area or harness
	4C face approx. 4 mm	×	×		×	×	×	◎	×	◎	×	◎	Large area or large heat load
	5C face approx. 5 mm	×	×		×	×	×	◎	×	◎	×	◎	Large area or large heat load
D Type Flathead(-) 	0.8D tip line width approx. 0.8 mm	○	○	○	○	◎	◎	×	○	△	◎	×	Small area or small heat load
	1.6D tip line width approx. 1.6 mm	○	○	◎	○	△	◎	×	△	△	○	×	Small area or small heat load
	2D tip line width approx. 2 mm	○		◎	◎	×	○	△	×	○	△	×	Small area or lead wire
	2.4D tip line width approx. 2.4 mm		×	◎	◎	×	○	◎	×	○	×	○	Small area or lead wire
	3.2D tip line width approx. 3.2 mm		×	◎	◎	×	○	◎	×	◎	×	◎	Small area or large heat load
K Type (Knife) 	5K width 5 mm	×	×	×	×	◎	×	×	×	◎	×	△	For bridges

The heater is automatically controlled.



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

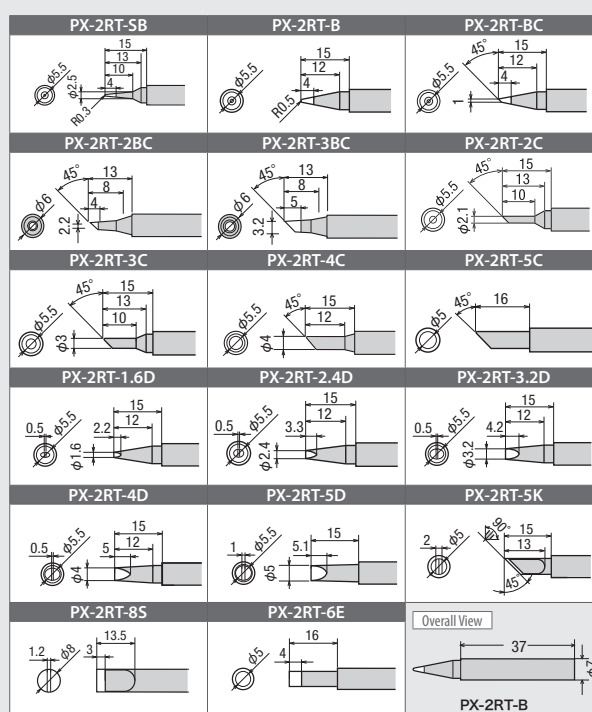
Model	PX-335	PX-338	PX-342
Voltage	110-120 V, 220-240 V AC 50/ 60 Hz		
Power Consumption	110-120 V model	90-130 W	
	220-240 V model	85-120 W	75-110 W
Temperature Setting Range	350°C	380°C	420°C
Ripple Temperature	±5°C (unloaded)		
Insulation Resistance	Over 100 MΩ (500 V DC)		
Heater	Ceramic Heater	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

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

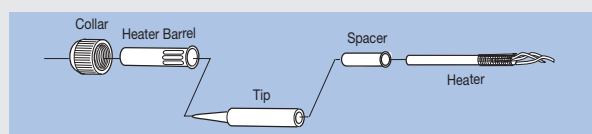
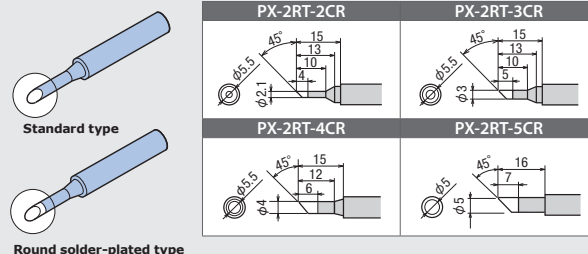
REPLACEMENT PARTS / OPTIONS

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

REPLACEMENT TIPS



Round solder-plated tip



SOLDERING IRONS [HIGH-EFFICIENCY]

HIGH-EFFICIENCY SOLDERING IRONS

PRECISION-COMPONENT MOUNTING-BOARD SOLDERING IRONS
HIGH-POWER SOLDERING IRONS
QUICK-HEAT SOLDERING IRONS
PRECISION PCB SOLDERING IRONS



Best for SMD soldering.

PRECISION-COMPONENT
MOUNTING-BOARD SOLDERING IRONS
CXR-31/41



COMPACT AND LIGHT
Easy use

EASY HEATER REPLACEMENT
Connector-type heater

THICK-PLATED LONG-LIFE TIP
Hard chrome coated



CXR-31

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

CXR-31/41



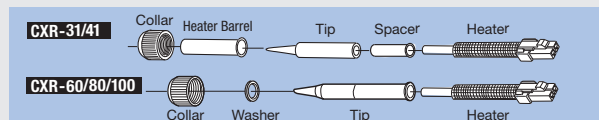
SPECIFICATIONS

Model	CXR-31	CXR-41	CXR-60	CXR-80	CXR-100
Voltage	110 V, 120 V 220-230 V AC	110 V, 120 V 220-230 V, 240 V	110-130 V, 220-240 V AC 50/ 60 Hz		
Power Consumption	22 W	30 W	28 W	32 W	38 W
Insulation Resistance	Over 100 MΩ (500 V DC)				
Heater	Ceramic Heater				
Power Cord Length	1.5 m				
Length	205 mm		268 mm		
Weight	60 g		80 g		88 g
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-80 WS
CXR-100 Washer CXR-100 WS	Recommended Stand ST-27



High-powered quick thermal recovery.

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



CXR-60/80



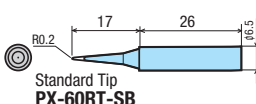
CXR-100

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

REPLACEMENT TIPS

For CXR-31/41 Series

A wide variety of replacement tips for all
types of work. Refer to [p. 30](#) for further
details.



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	

Two-stage high-power heater. QUICK-HEAT SOLDERING IRONS TQ-77/95



TQ-77



TQ-95

SPECIFICATIONS

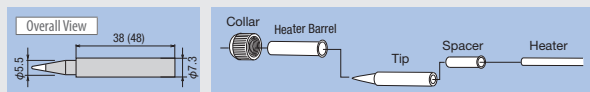
Model	TQ-77	TQ-95
Voltage	110-130 V, 220-240 V AC 50/ 60 Hz	
Power Consumption	High 150 W / Low 15 W (110-130 V model) High 200 W / Low 20 W (220-240 V model)	
Insulation Resistance	Over 100 MΩ (500 V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5 m	
Length	167 mm	210 mm
Weight	90 g	65 g
Accessories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

TQ-77RT-SB (110-130V) TQ-77RT-SB-L (220-240V)	TQ-77RT-B (110-130V) TQ-77RT-B-L (220-240V)	TQ-77RT-BC (110-130V) TQ-77RT-BC-L (220-240V)
TQ-77RT-2C (110-130V) TQ-77RT-2C-L (220-240V)	TQ-77RT-3C (110-130V) TQ-77RT-3C-L (220-240V)	



() Size for 220-240 V AC model

REPLACEMENT PARTS / OPTIONS

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

Best for precision soldering. PRECISION PCB SOLDERING IRONS CS-21/31



CS-31



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

SPECIFICATIONS

Model	CS-21	CS-31
Voltage	110 V, 220 V, 240 V AC 50/ 60 Hz	110V, 120V, 220V, 240V AC 50/ 60 Hz
Power Consumption	20 W	25 W
Insulation Resistance	Over 100 MΩ (500 V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5 m	
Length	188 mm	
Weight	43 g	
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

SOLDERING IRONS [NICHROME HEATER SOLDERING IRONS]

NICHROME HEATER SOLDERING IRONS

GENERAL ELECTRONICS SOLDERING IRONS
STARTER KIT
DUAL-POWER SOLDERING IRONS
PORTABLE SOLDERING IRON WITH CAP
LOW-VOLTAGE SOLDERING IRONS

SHEET-METAL SOLDERING IRONS
RED / BLACK TIPS
COPPER TIPS



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

REPLACEMENT TIPS

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

Model / Application	IC	P.C. Board	Transistors	Condensers	Resistors	Switches	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	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	20 W equiv.	30 W equiv.	40 W equiv.
Power consumption may vary according to location and item specs. Please see Products power consumption and safety standard p.4			
Heater	Nichrome Heater		
Length	205 mm		
Weight	45 g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KS-60R	KS-80R	KS-100R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	60 W equiv.	80 W equiv.	100 W equiv.
Power consumption may vary according to location and item specs. Please see Products power consumption and safety standard p.4			
Heater	Nichrome Heater		
Length	230 mm	235 mm	240 mm
Weight	65 g	70 g	75 g
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	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	20 W equiv.	30 W equiv.	40 W equiv.
Power consumption may vary according to location and item specs. Please see Products power consumption and safety standard p.4			
Heater	Nichrome Heater		
Length	208 mm		
Weight	50 g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KX-60R	KX-80R	KX-100R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	60 W equiv.	80 W equiv.	100 W equiv.
Power consumption may vary according to location and item specs. Please see Products power consumption and safety standard p.4			
Heater	Nichrome Heater		
Length	233 mm	238 mm	243 mm
Weight	70 g	75 g	80 g
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-20H	KS-30R/KX-30R Heater KS-30H
KS-40R/KX-40R Heater KS-40H	KS-60R/KX-60R Heater KS-60H
KS-80R/KX-80R Heater KS-80H	KS-100R/KX-100R Heater KS-100H
Recommended Stand ST-75	Recommended Stand ST-11

Value Package

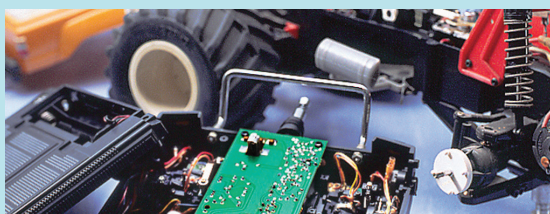
STARTER KIT (ELECTRONICS/CRAFT & HOBBY)

SG series Recommended for Beginners

SG-1



SG-2



Model	SG-1	SG-2
CLASSIFICATION	Electronics Kit	Craft & Hobby Kit
INCLUDED ITEMS	Solder for Electronics Desoldering Wick CP-2015 Tapered Reamer Tip Cleaner ST-30 Heat Clip H-1L	Solder for Craft & Hobby Square Scraper/ Knife Tip Cleaner ST-30 Heat Clip H-1L Soldering Paste BS-10

For hobby use with dual switch.

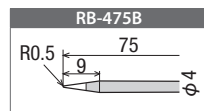
DUAL-POWER SOLDERING IRONS

KYP-60/70

High 60 W power when trigger is pulled.



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



For other replacement tips, refer to p. 39.

SPECIFICATIONS

Model	KYP-60	KYP-70
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz
Power Consumption	30 W equiv.	60 W equiv./Trigger OFF 30 W equiv.
Heater	Nichrome Heater	
Length	175 mm	
Weight	160 g	
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	Heat Resistant Cap for KYP-70
KYP-70H	TQ-CAP
Recommended Stand	
ST-11	

Store quickly after soldering.

PORTABLE SOLDERING IRON WITH CAP

CA-30R/40R

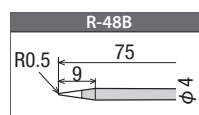


CA-30R

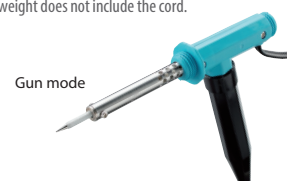
SPECIFICATIONS

Model	CA-30R	CA-40R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz
Power Consumption	30 W equiv.	40 W equiv.
Heater	Nichrome Heater	
Length	185 mm	
Weight	60 g	
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 p. 39.



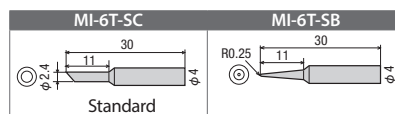
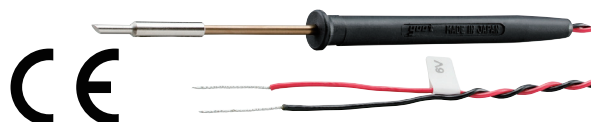
REPLACEMENT PARTS / OPTIONS

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

Length only 150 mm! Weight only 9 g!

LOW-VOLTAGE SOLDERING IRONS

MI-6-6 V/MI-6-12 V



⚠ 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-6-6 V	MI-6-12 V
Voltage	5-6 V AC / DC	11-12 V AC / DC
Power Consumption	6 W	
Heater	Nichrome Heater	
Length	150 mm	
Weight	9 g	
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-6-6 V Heater	MI-6-12 V Heater
MI-6H-6 V	MI-6H-12 V
Recommended Stand	
ST-30	

SOLDERING IRONS [NICHROME HEATER SOLDERING IRONS]

■ High power. Suitable for sheet-metal work.

RoHS

SHEET-METAL SOLDERING IRONS HP-150/200/300

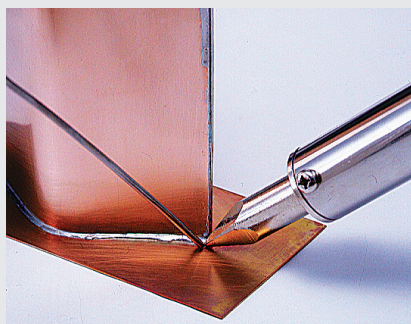
WOODEN HANDLE
Has good insulation

LARGE COPPER TIP
Can be shaped to suit your work purpose

SPECIFICATIONS

Model	HP-150	HP-200	HP-300
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	150 W equiv.	200 W equiv.	300 W equiv.
Heater	Nichrome Heater		
Length	360 mm	370 mm	390 mm
Weight	450 g	610 g	710 g
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

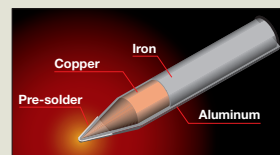
HP-150 Heater
HP-150H
HP-300 Heater
HP-300H

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

10 to 20 times longer life than normal copper tips.



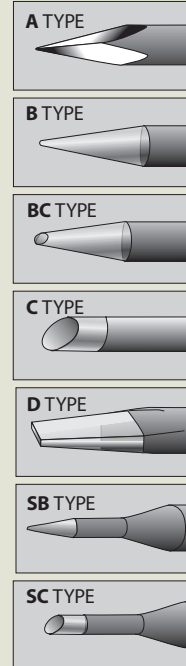
The **goot Red Tips** are genuine, long-life replacement tips. Made of iron-plated copper, coated with aluminum. 10 to 20 times longer life than normal copper tips. Hi-precision processed tips achieve extremely accurate soldering work. The **goot Black Tips** are made of copper, iron plated, and covered 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	φ4 mm	75 mm	KYP-60, KYP-70
	RB-680B	B	φ6 mm	80 mm	KX-60R, KS-60R
Red Tip	R-48B	B	φ4 mm	75 mm	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	φ6 mm	80 mm	KS-60R KX-60R
	R-6BC	BC			
	R-6C	C			
	R-6D	D			
	R-6SB	SB			
	R-6SC	SC			
	RD-67B	B	φ6-7 mm	83 mm	KS-80R KX-80R
	RD-67BC	BC			
	RD-67C	C			
	RD-67D	D			
	RD-68B	B	φ6-8 mm	88 mm	KS-100R KX-100R
	RD-68BC	BC			
	RD-68C	C			
	RD-68D	D			

TIP SHAPES



File reshaping available.



COPPER TIPS T series

Tip Applicable Model List					
SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
Copper Tip	T-13A	A	φ13 mm	120 mm	HP-150
	T-16A	A	φ16 mm	125 mm	HP-200
	T-19A	A	φ19 mm	140 mm	HP-300

Tip Size Table

	TYPE		R-48	R-6	RD-67	RD-68
B		a	0.5	0.8	0.6	0.6
		b	9	12	15	17
		c	7	10	10	10
BC		a	1.2	1.6	1.5	1.5
		b	9	12	15	17
		c	45	45	45	45
C		a	4	6	7	8
		b	7	10	10	12
		c	45	45	45	45
D		a	1	1.2	1	1
		b	3.2	4.2	4	4
		c	13	25	26	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	3
		b	20	25	30
		c	13	16	19

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

SOLDERING IRONS [PORTABLE SOLDERING IRONS]

PORTABLE SOLDERING IRONS

- GAS-POWERED SOLDERING IRON
- PORTASOL SUPER PRO
- PORTASOL PRO PIEZO
- PORTASOL PRO PIEZO SET
- USB-POWERED SOLDERING IRON
- BATTERY-POWERED SOLDERING IRON



High thermal-efficiency brass tip.



GAS-POWERED SOLDERING IRON GP-101S



NOTE: Fill with gas before use.

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

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 s
Operation Time Per Refill	Approx. 45 mins. (with temp.set at max.)
Length	157 mm
Weight	43 g

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

Take high power outdoors.



GAS-POWERED SOLDERING IRON GP-501 PORTASOL SUPER PRO



NOTE: Fill with gas before use.

●Heats quickly. Takes only 30 seconds from ignition until soldering. Controls equivalent power of 25-125 W 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.

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)
Refill Time	20 s
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	223 mm
Weight	147 g

REPLACEMENT TIPS		
GP-501RT-1C	GP-501RT-2.4C	GP-501RT-3.2C
GP-501RT-4.8C	GP-501RT-1D	GP-501RT-2.4D
GP-501RT-3.2D	GP-501RT-4.8D	GP-501CU
GP-501HT	Hot Knife	

Long-life iron-plated tips.

Piezo ignition, compact type.



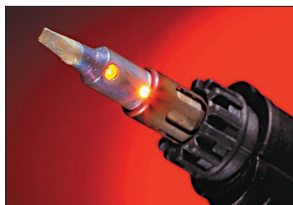
GAS-POWERED SOLDERING IRON

GP-510 PORTASOL PRO PIEZO



NOTE: Fill with gas before use.

●Heats quickly. Takes only 30 seconds from ignition until soldering. Controls equivalent power of 15-75 W 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.



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 s
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	175 mm
Weight	65 g

REPLACEMENT TIPS

GP-510RT-1C 26 1.0	GP-510RT-2.4C 26 2.4 Standard	GP-510RT-3.2C 26 3.2
GP-510RT-4.8C 26 4.8	GP-510RT-1D 26 φ 1.0	GP-510RT-2.4D 26 φ 2.4
GP-510RT-3.2D 26 φ 3.2	GP-510RT-4.8D 26 φ 4.8	GP-510CU 26 8.0 Hot Knife
GP-510HT 22 φ 6.0 Hot Air	GP-510ST 37 20 Must be used with the GP-510HT.	

Long-life iron-plated tips.

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



GAS-POWERED SOLDERING IRON SET

GP-510SET PORTASOL PRO PIEZO SET



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

NOTE: Fill with gas before use.



Hot air



With 2.4C tip



With 1C tip

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

INCLUDED ITEMS

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

SOLDERING IRON	2 soldering tips: 1 mm and 2.4 mm. 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 s
Operation Time Per Refill	Approx. 45 mins. (for soldering)
Length	175 mm
Weight	65 g

TIPS INCLUDED IN SET

Replacement tips are interchangeable with GP-510.

GP-510RT-1C	GP-510RT-2.4C	GP-510HT
GP-510ST		
Must be used with the GP-510HT.		

Long-life iron-plated tips.

SOLDERING IRONS [PORTABLE SOLDERING IRONS]

Powerful 4-battery cordless soldering iron.
Ready to go in about 20 seconds.



Battery-Powered Soldering Iron MSD-40

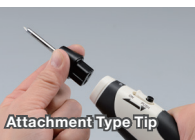
NEW



Use Anywhere, Anytime!

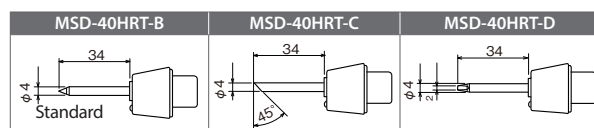
LED light allows comfortable soldering in dark or compact places, e.g. car wiring, remote locations, etc.

Attachment type tip can be replaced without tools. Low-battery lamp prevents sudden interruption of work from battery exhaustion. Protective cap prevents accidental switch-ons. Carry in bag or pocket safely. Hole to attach strap.



Model	MSD-40
Voltage / Power Consumption	6V / 9W
Batteries	4 AA Alkaline batteries (Ni-MH AA batteries available)
Temperature Range	Over 450°C
Continuous Use Time	Alkaline/ approx. 40min. Ni-MH/ approx. 60 min.
Size	222 X 40 X 28 mm (without cap)
Weight	68g(without cap and batteries)
Accessories	Tip (MSD-40HRT-B)

REPLACEMENT TIPS



MSD-40



Easy! Convenient!!

Battery-Powered Soldering Iron MSD-20



Compact and portable 180 mm with cap on



LED light for visibility



Locks OFF with safety cap



Double-action ON switch



Rechargeable batteries OK.

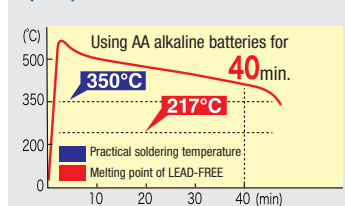
USEFUL

Solder anywhere with 3 AA batteries. Rechargeable batteries OK. LED light for visibility. 350°C in 15 seconds. *Using new batteries.

SAFE

Double-action ON switch. Locked OFF when cap is on. Carry in pocket safely.

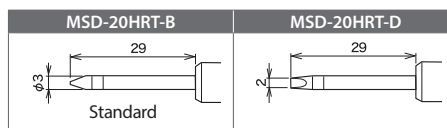
Tip temp. is over 350°C even after 40 minutes.



Although the melting point of regular lead-free solder is 217°C, a higher temperature is required since the tip temperature is taken by the object.

Model	MSD-20
Voltage / Power Consumption	4.5V / 8W
Batteries	3 AA Alkaline batteries (Ni-MH AA batteries available)
Temperature Range	Over 450°C
Continuous Use Time	Alkaline/ approx. 40min. Ni-MH/ approx. 60 min.
Size	180 X 40 X 25 mm (without cap)
Weight	62g(without cap and batteries)
Accessories	Tip (MSD-20HRT-B)

REPLACEMENT TIPS



MSD-20



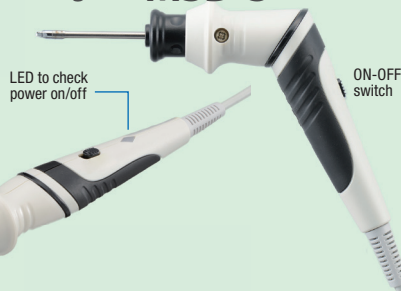
Mobile soldering iron powered by USB cable



USB-powered soldering iron MSD-5



Rotate grip to change style best for your work.



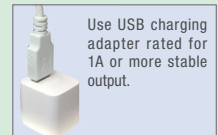
LED to check power on/off

ON-OFF switch

Powered by USB cable. Mobile battery so you can use it anywhere. Can be used as styrofoam cutter with our attachment (sold separately). **p.75 SC-5**

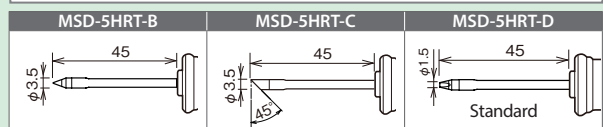
*USB charging adapter not included.

*Do not use this product with your computer or USB HUB etc. connected to your computer. Computer, inside parts, or connected parts might become unstable. We do not take any responsibility for any damage caused by connecting to computer.



Use USB charging adapter rated for 1A or more stable output.

REPLACEMENT TIPS



Model	MSD-5
Voltage/Power Consumption	5V/5W USB-A male
Temperature	500°C approx.
Heat-up time	350°C: 35 sec., 450°C: 65 sec.
Length/Weight	150mm/40g (only grip part, w/o cord)
Accessories	Tip (MSD-5HRT-D), Stand

STAINED-GLASS SOLDERING IRON

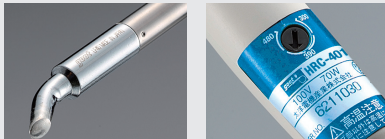
TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON
STAINED-GLASS SOLDERING IRON

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. ●70 W 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.



SPECIFICATIONS

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

Power Lamp

HRC-401

HRC-80

HRC-100

REPLACEMENT PARTS / OPTIONS

HRC-401 Heater PX-20H	HRC-80 Heater CXR-80H
HRC-100 Heater CXR-100H	HRC-401/80 Collar CXR-80NUT
HRC-100 Collar CXR-100NUT	HRC-401/80 Washer CXR-80 WS
HRC-100 Washer CXR-100 WS	Recommended Stand ST-27

AUTOMATIC SOLDER FEEDER

AUTOMATIC SOLDER FEEDER

LEAD-FREE V-GROOVE AUTOMATIC SOLDER FEEDER
LEAD-FREE AUTOMATIC SOLDER FEEDER



Manage solder feed length and soldering time digitally.
Can be interlocked with external equipment by External input / output function.

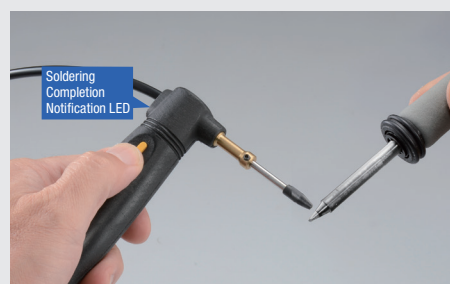


Quantification of solder feed amount, quality improvement by setting numerical value

LEAD-FREE
V-GROOVE AUTOMATIC SOLDER FEEDER
FD-180



- Intuitive operation with touch panel is possible.
- $\Phi 0.6$ -1.6 lead-free solder applicable
- Straight feed with less solder clogging



INPUT NUMBER BY TOUCH PANEL

Manage solder feed length and time digitally.

SOLDER-SPLASH PREVENTION

V-groove function (Unit exchange type)

EXTERNAL INPUT / OUTPUT TERMINALS

For interlocking with Poka-Yoke jig

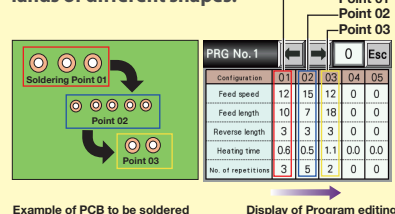
SEPARABLE MAIN UNIT AND TOUCH-PANEL

Ideal for cell production and incorporation into automatic processes.

Solder in this image is also not included.

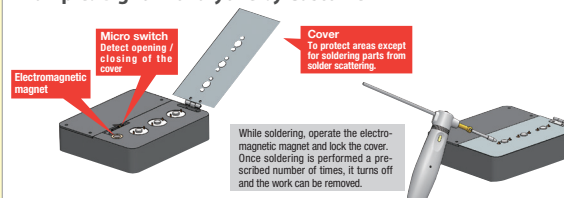
*Model code for only solder feeding unit (slave unit) is FD-180F.

Soldering conditions can be managed by one unit even when PCB has lands of different shapes.



- Soldering 3 times on Point 01
- Soldering 5 times on Point 02
- Soldering 2 times on Point 03
- Complete

Example: Gig for Poka-yoke by Customer



SAMPLE CONFIGURATION

The photo shows the **FD-180** with optional parts attached. Solder, iron unit, and optional parts with iron unit are not included in the product.

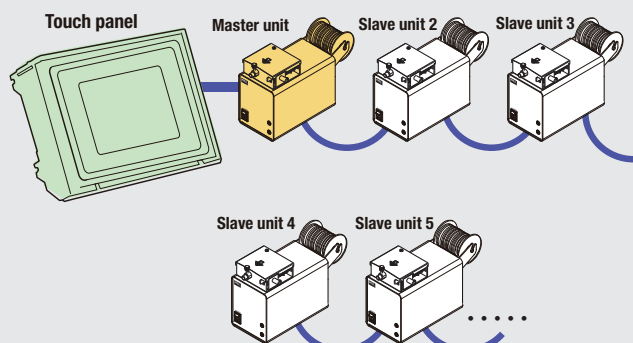
①	Temperature-Controlled Lead-Free Soldering Station	RX-802AS
②	Tip	RX-80HRT-B
③	Automatic Solder Feeder Unit	FD-180
④	V-groove unit	FD-180VU-1.0
⑤	Tube Assy (Solder Dia. $\phi 0.6-1.0$)	FD-100TA-1.0
⑥	Guide Pipe (for RX-80GAS)	FD-100P-80
⑦	Nozzle (Solder Dia. $\phi 1.0$)	FD-110N-1.0



Choose suitable V-groove unit, feeder grip, and nozzle.

Solder Dia.	0.6 / 0.65mm	0.8mm	1.0mm	1.2mm	1.6mm
V-groove unit	FD-180VU-0.6	FD-180VU-0.8	FD-180VU-1.0	FD-180VU-1.2	FD-180VU-1.6
Feeder Grip	FD-180G-1.0			FD-180G-1.6	
Tube Assy	FD-100TA-1.0			FD-100TA-1.6	
Feeder Pen	FD-100PN-1.0			FD-100PN-1.6	
Nozzle	FD-110N-0.6	FD-110N-1.0		FD-110N-1.6	

Manage multiple units with one touch panel (optional)



Possible to change the settings of connected slave unit from master unit (Max. 15 units)

SPECIFICATIONS

Model	FD-180
Power Supply Voltage	100-240V AC 50/60Hz
V-groove function	Available
Applicable Solder Diameter	$\phi 0.6/0.8/1.0/1.2/1.6$ Allowing Lead-free
Allowed Solder Bobbin	Width: Less than 70mm, Outside Diameter: Less than 80mm, Inside Diameter: More than 18mm
Driving Method	Stepper Motor
Solder Feed Amount	400mm (Max.)
Solder Feed Speed	1-50mm/ sec
Reversed Solder Speed	1-50mm/ sec
Reversed Solder Amount	30mm (Max.)
Mode	AUTO Mode (Set by program) MANUAL Mode (Continuous feeding by pressing button)
Program Capacity	Max. 30 programs
Condition of Solder Feed	Max. 30 kinds per 1 program
Languages	Japanese / English / Chinese
Dimensions	Feeder Unit 100 (W) $\times$ 270 (H) $\times$ 163 (D) mm Touch Panel 153 (W) $\times$ 125 (H) $\times$ 72 (D) mm
Weight	Feeder Unit 2.8kg (w/o cord) Touch Panel 1.0kg (w/o cord)

AUTOMATIC SOLDER FEEDER

V-groove prevents solder splash. LEAD-FREE V-GROOVE AUTOMATIC SOLDER FEEDER FD-110

V-groove rollers are different according to solder diameter being used. Please let us know your solder diameter when purchasing FD-110. To replace or change v-groove rollers, please feel free to contact us.

- One-handed soldering work possible. ON/OFF switch is built into the Tube Assy **FD-100TA** (sold separately).
- $\phi 0.6$ -1.6 mm lead-free solder applicable.
- Solder feed method for reducing solder clogs.



The above photo is with optional parts. Solder, soldering unit, and other optional parts are not included with this FD-110.

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.



SOLDER-SPLASH PREVENTION
V-groove function

MAX $\phi 1.6$ LEAD-FREE SOLDER APPLICABLE*
Wide tube

INNOVATIVE DESIGN MEANS FEWER CLOGS
Handpiece shaped for smooth solder flow

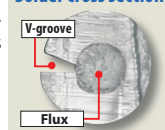
COMPATIBLE WITH YOUR SOLDERING UNIT
for **goot RX series** soldering stations

*Please tell us your solder diameter when purchasing.

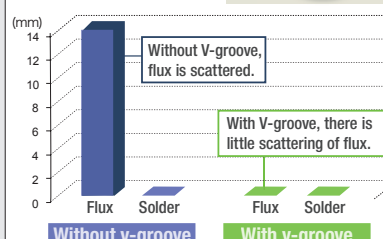
V-groove function

Grooved solder lets flux vapor be released. Reduces splash. Reduces defects.

Solder cross section



Solder splash



MAX $\phi 1.6$ 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



- One-handed soldering work possible. ON/OFF switch is built into the Tube Assy **FD-100TA** (sold separately).
- $\phi 0.6$ -1.6 mm lead-free solder applicable.
- Solder feed method for reducing solder clogs.

SPECIFICATIONS

Model	FD-100	FD-110-0.6	FD-110-0.8	FD-110-1.0	FD-110-1.2	FD-110-1.6
V-groove function	N/A	YES				
Voltage	100-240V AC 50/60Hz inlet type					
Power Consumption	8W					
Power Cord Length	1.5 m					
Applicable Soldering Irons	RX-802AS (RX-80GAS)					
	RX-852AS (RX-85GAS)					
	RX-822AS (RX-80/85GAS)					
	RX-701/711AS (RX-72GAS)					
Applicable Solder Diameter (mm)	φ 0.6-1.6	φ 0.6	φ 0.8	φ 1.0	φ 1.2	φ 1.6
	LF solder applicable					
Solder Feed Speed (mm/s)	6-22	5-20				1-19
	unloaded					
Solder Feed Time	0-4s					
Returned Solder Amount	0-5mm(fixed speed)					
Dimensions	FD-100 : 82 (W) × 140 (H) × 210 (D) mm FD-110 series : 82 (W) × 149 (H) × 210 (D) mm					
Weight	FD-100 : 1.5kg (w/o solder) FD-110 series : 1.6kg (w/o solder)					

REPLACEMENT PARTS / OPTIONS

Tube Assy (Solder Dia. $\phi 0.6$ -1.0) FD-100TA-1.0	Tube Assy (Solder Dia. $\phi 1.2$ -1.6) FD-100TA-1.6
Guide Pipe for RX-80GAS FD-100P-80	Guide Pipe for RX-85GAS FD-100P-85
Guide Pipe for RX-72GAS FD-100P-72	
Feeder Pen (Solder Dia. $\phi 0.6$ -1.0) FD-100PN-1.0	Feeder Pen (Solder Dia. $\phi 1.2$ -1.6) FD-100PN-1.6
Nozzle, Solder Dia. $\phi 0.6$ / 0.65 FD-110N-0.6	Nozzle, Solder Dia. $\phi 0.8$ / 1.0 FD-110N-1.0
Nozzle, Solder Dia. $\phi 1.2$ / 1.6 FD-110N-1.6	Foot Switch FD-100FS

ST-21, ST-22 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)



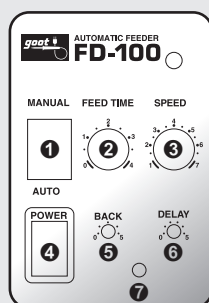
Foot Switch
FD-100FS

SAMPLE CONFIGURATION

Constant feed volume.
Stable quality at lower cost.



FRONT PANEL (Common FD-100/110)



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

FD-100 Sample configuration

1	Temperature-Controlled Lead-Free Soldering Station	RX-802AS
2	Tip	RX-80HRT-B
3	Automatic Solder Feeder Unit	FD-100
4	Tube Assy (Solder Dia. ϕ 0.6–1.0)	FD-100TA-1.0
5	Guide Pipe (for RX-80GAS)	FD-100P-80
6	Nozzle (Solder Dia. ϕ 1.0)	FD-110N-1.0

CHOOSING OPTIONAL PARTS

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

Applicable Iron Unit	RX-80GAS RX-802AS RX-822AS	RX-85GAS RX-852AS RX-822AS	RX-72GAS RX-701AS RX-711AS
Soldering Iron Tip	RX-80HRT series	RX-80HRT series	PX-60RT series
Applicable Guide Pipe	FD-100P-80	FD-100P-80	FD-100P-85
			FD-100P-72

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 	Tube Assy FD-100TA-1.0			Tube Assy FD-100TA-1.6	
Nozzle 	Nozzle FD-110N-0.6	Nozzle FD-110N-1.0		Nozzle FD-110N-1.6	
Feeder Pen 	Feeder Pen FD-100PN-1.0			Feeder Pen FD-100PN-1.6	

Nozzle not included. Foot switch is required.

SOLDERING TESTER / TIP THERMOMETER

SOLDERING TESTER / TIP THERMOMETER

SOLDERING TESTER
TIP THERMOMETER



Quick measuring. Shorten your routine.



TIP THERMOMETER TM-100

JCSS inspection calibration is available as an option (for fee) in addition to manufacturer calibration (for fee). JCSS Calibration Compliant Content: Complies with the requirements of ISO/IEC 17025, ISO 9000s, IATF 16949, etc. Can issue a calibration certificate with JCSS-certified symbol for international MRA.

*Measurement of earth resistance is not certified by JCSS calibration.



Wide temperature range $0-700^{\circ}\text{C}$ (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.

*** $0-700^{\circ}\text{C}$ is the range with (optional) sensor probe TM-100SP. With the standard sensor TM-100S, measurable $0-500^{\circ}\text{C}$ (932°F).**

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)

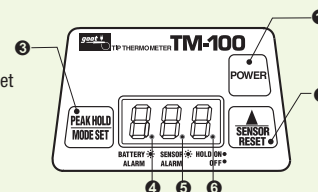
to estimate operating-life

AUTO-POWER OFF

Automatically powers off at pre-set period

Key Pad

- 1 Power Switch
- 2 Sensor Reset
- 3 Peak Hold/Mode Set
- 4 Battery Alarm
- 5 Sensor Alarm
- 6 Hold ON/OFF



SPECIFICATIONS

Model	TM-100
Voltage	AA battery LR6 x 4 pcs : 6 V
Dimensions	83 (W) x 140 (H) x 41 (D) mm
Weight	150 g (w/o battery)
Temperature	Resolution 1°C
	Measuring Range Sensor TM-100S: $0-500^{\circ}\text{C}$ ($32-932^{\circ}\text{F}$) Probe TM-100SP: $0-700^{\circ}\text{C}$ ($32-1,292^{\circ}\text{F}$)
	Accuracy $0-500^{\circ}\text{C} : \pm 3^{\circ}\text{C}$ $501-700^{\circ}\text{C} : \pm 4^{\circ}\text{C}$
Operating Environment	$0-40^{\circ}\text{C}$, 20-85%RH (no condensation)
Accessories	Sensor 3 pcs AA battery LR6 x 4pcs

Calibration certificate not included with product. Please request with order. (Paid service.)

REPLACEMENT PARTS / OPTIONS

Sensor (3pcs.)

TM-100S

Sensor Probe (1pc.)

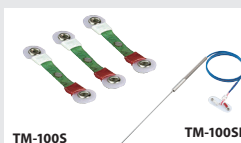
TM-100SP

TM-100 Calibration Services

TM-100KOUSEI

TM-100 JCSS Calibration Service (with Certificate)

TM-100KOUSEI-JCSS



Compact sensor for hard-to-reach places.



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.

SENSOR UNIT TM-100SU



Model	TM-100SU
Dimensions	64 (W) x 28 (H) x 100 (D) (w/o cord)
Weight	210 g
Cord Length	$\phi 4 \times 1.5$ m
Compatible Models	TM-100, TM-200



Quick testing. Shorten your routine.



SOLDERING TESTER TM-200

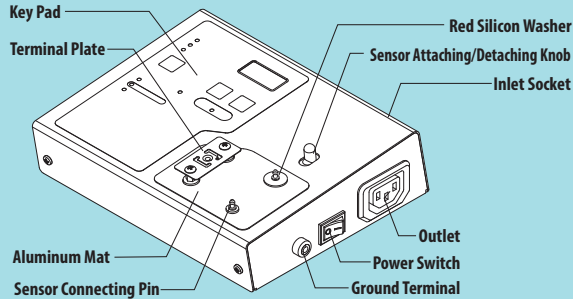
ONE Multi-Tester measures tip temperature, leak voltage, and tip-to-ground resistance of soldering irons.



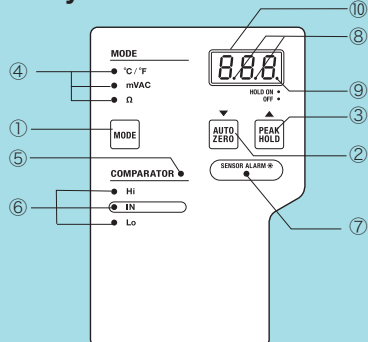
JCSS inspection calibration is available as an option (for fee) in addition to manufacturer calibration (for fee). JCSS Calibration Compliant Content: Complies with the requirements of ISO/IEC 17025, ISO 9000s, IATF 16949, etc. Can issue a calibration certificate with JCSS-certified symbol for international MRA.

*Measurement of earth resistance is not certified by JCSS calibration.

Unit



Key Pad



- ① **MODE Changer**
(Setting key in setting mode)
- ② **AUTO ZERO Button**
(Down key in setting mode)
- ③ **PEAK HOLD Button**
(Up key in setting mode)
- ④ **MODE Lamp**
- ⑤ **COMPARATOR Lamp** (Lights up)
- ⑥ **COMPARATOR Result Indicator**
- ⑦ **SENSOR ALARM Lamp** (Flashes)
- ⑧ **Decimal Point**
- ⑨ **Hold Lamp** (Lights up)
- ⑩ **Display**

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

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!

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

Corresponding to wide temperature range *0-700°C (1292°F), as is needed 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-200
Voltage		100-240 V AC 50/ 60 Hz
Input Current		7A
Dimensions		185 (W) × 58 (H) × 160 (D) mm (w/o cord)
Weight		Approx. 1 kg (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 : $\pm 3^\circ$ 501-700°C : $\pm 4^\circ$ C
Voltage	Resolution	0-99.9 mV: 0.1 mV 100-200 mV: 1 mV (auto range)
	Measuring Range	0-200 mV
	Accuracy	$\pm(5\%$ of reading value + 1dgt)
Resistance	Resolution	0-99.9 Ω : 0.1 Ω 100-200 Ω : 1 Ω (auto range)
	Measuring Range	0-200 Ω
	Accuracy	$\pm (5\%$ of reading value + 1dgt)
Operating Environment		0-40°C, 20-85%RH (no condensation)
Accessories		Sensor 3 pcs, Earth connecting lead, Fuse, Power Cord, Plug Adapter

REPLACEMENT PARTS / OPTIONS

Sensor (3pcs.)	Terminal Plate
TM-100S	TM-200P
Sensor Unit	TM-200 Calibration Services
TM-100SU	TM-200KOUSEI
Sensor Probe (1pc.)	TM-200 JCSS Calibration Service (with Certificate)
TM-100SP	TM-200KOUSEI-JCSS

Calibration certificate not included with product. Please request with order. (Paid service.)

SOLDER POTS

SOLDER POTS

SOLDER POT
SOLDER POT [LEAD-FREE]



**Temperature control knob
for optimal dipping.**

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



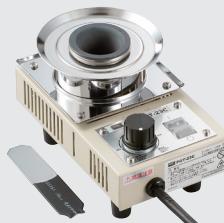
POT-23C
POT-28C

Spatula included.

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



POT-21C



POT-23C



POT-28C

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.

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

REPLACEMENT PARTS / OPTIONS

POT-21C/23C/28C Heater

POT-21CH

POT-23C Bath

POT-23CP

POT-21C Bath

POT-21CP

POT-28C Bath

POT-28CP

SPECIFICATIONS

Model	POT-21C	POT-23C	POT-28C
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
Power Consumption	130 W		
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. 300 g		
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	720 g	800 g	

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 250 mm
Length	260 mm
Holder width	55 mm

Economical and erosion-resistant cast-iron bath.

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



ACCURATE TEMPERATURE CONTROL
With PID control

CAST IRON BATH
Lead-free solder applicable

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature



●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	110 V-130 VAC 50/ 60 Hz	220 V-240 VAC 50/ 60 Hz
Power Consumption	470-610 W	370-430 W
Max. Temp.	500°C	
Heater	Ceramic Heater	
Control System	PID Control	
Power Cord Length	1.5 m Inlet type	
Solder Bath Material	Cast Iron	
Max Solder Volume	Approx. 850 g	
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

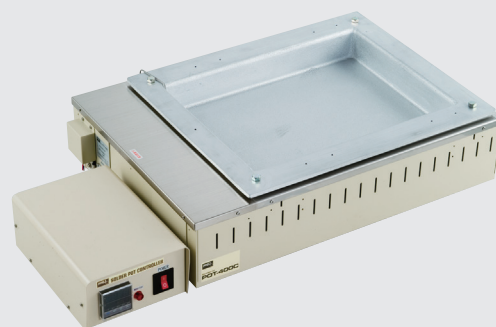
Bath
POT-50CP

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



Economical and erosion-resistant cast-iron bath.



SOLDER POT
POT-103C/ 203C

- ACCURATE TEMPERATURE CONTROL**
With PID control
- CAST-IRON BATH**
Lead-free solder applicable

- DUAL DIGITAL DISPLAY**
Shows set-temperature & measured-temperature
- EASY HEATER REPLACEMENT**
Separated structure of heater and bath



Accurate temperature control with PID control.



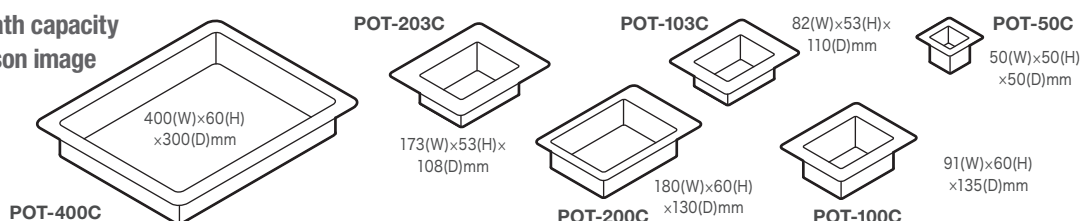
SOLDER POT
POT-100C/ 200C

- ACCURATE TEMPERATURE CONTROL**
With PID control
- EASY HEATER REPLACEMENT**
Separated structure of heater and bath

- DUAL DIGITAL DISPLAY**
Shows set-temperature & measured-temperature



Solder bath capacity comparison image



SPECIFICATIONS

Model	POT-100C	POT-103C	POT-200C	POT-203C	POT-400C
Voltage (AC 50/ 60 Hz)	110 V, 120 V, 220 V, 240 V	110-120 V, 220-240 V	110 V, 120 V, 220 V, 240 V	110-120 V, 220-240 V	220-240 V
Power Consumption	440 W	900 W	720 W	1400 W	4 kW
Max. Temp.	350°C	450°C	400°C	450°C	400°C
Set Accuracy	±{(1.25% of display temperature)+1°C}				
Heater	Nichrome Heater	Sheath Heater	Nichrome Heater	Sheath Heater	Sheath Heater
Control System	PID Control				
Power Cord Length	1.3 m	1.5 m (3 core cord w/o plug)	1.3 m	1.5 m (3 core cord w/o plug)	3 m (3 core cord w/o plug)
Solder Bath Material	SUS316	Cast Iron	SUS316	Cast Iron	Cast Iron
Max. Solder Volume	Approx. 5.5 kg	Approx. 3.5 kg	Approx. 9.5 kg	Approx. 7 kg	50 kg
Dimensions (mm)	Bath Unit 360 (W)×124 (H)×220 (D) mm		450 (W)×124 (H)×220 (D) mm		602 (W) × 165(H) × 427 (D)
	Control Unit -		-		175 (W) × 122(H) × 260 (D)
	Solder Bath 91(W)×60(H)×135(D)		82 (W)×53 (H)×110 (D)		400 (W) × 60(H) × 300 (D)
Weight	5kg	8kg	7kg	11 kg	43 kg

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-400C Bath (Cast Iron) POT-400CP
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	POT-400C Heater POT-400CHAH (for Bottom) POT-400CHBH (for side)

SURFACE-MOUNT / SMT PRODUCTS

SURFACE-MOUNT / SMT PRODUCTS

- SMT REWORK REPAIR SYSTEM
- REBALL KIT
- HOT-AIR REWORK STATION
- HANDPIECE HOLDER
- BOARD HOLDERS
- PREHEATER
- SOLDERING TWEEZERS



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

SMT REWORK REPAIR SYSTEM **GSR-302** 



PREHEATER 
XPR-1000

HOT-AIR REWORK STATIONS 

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 using the preheater.



SMT REWORK REPAIR SYSTEM GSR-301/300



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-301	GSR-300
Preheater	XPR-620	
Hot-Air Rework Station	XFC-301	XFC-300
Handpiece Holder	XK-2	
Board Holder	XU-1	

Handles BGAs, CSPs, QFPs and all SMDs.



SMT REWORK REPAIR SYSTEM GSR-210



SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-210
Preheater	XPR-620
Hot-Air Rework Station	XFC-210
Handpiece Holder	XK-2
Board Holder	XU-1

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



SMT REWORK REPAIR SYSTEM GSR-212



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 QFPs, SOL, DISCRETE



SMT REWORK REPAIR SYSTEM GSR-110



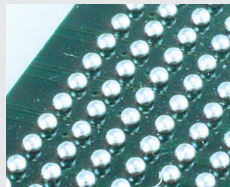
SYSTEM CONFIGURATION Nozzles sold separately.

ITEM	GSR-110
Preheater	XPR-620
Hot-Air Rework Station	XFC-110
Handpiece Holder	XK-1
Board Holder	XU-1

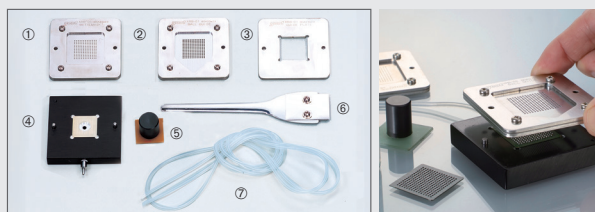
Reball Kit allows replacement of solder balls on a BGA.

REBALL KIT

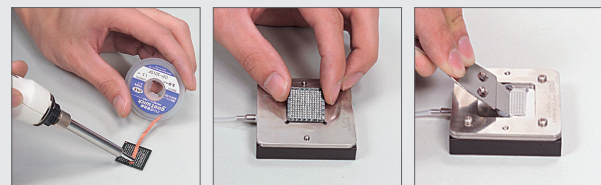
XRB series



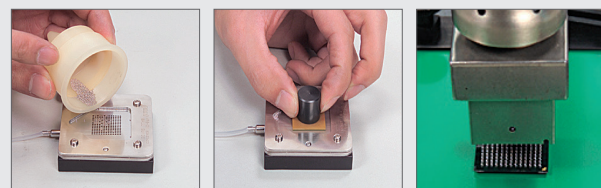
Also required to reball components: Hot-air rework station (XFC-110/210/300/301), soldering iron, desoldering wick, cream solder, and solder balls. (Sold separately.)



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)	



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.

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

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



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.

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



XFC-301

Nozzles sold separately.



XFC-300

Nozzles sold separately.

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

HOT-AIR REWORK STATION XFC-210



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

HOT-AIR REWORK STATION XFC-110



Nozzles sold separately.

ACCURATE TEMPERATURE CONTROL
With P temperature 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



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.

XFC series FEATURES TABLE

FUNCTION	XFC-301	XFC-300	XFC-210	XFC-110
Auto-lift*	✓	—	—	—
5-zone Profiles	✓	✓	✓	—
Auto Profile Mode	✓	✓	—	—
Normal Profile Mode	✓	✓	✓	—
Hand Mode	✓	✓	✓	✓
Saving of Profile Mode and Hand Mode	✓	✓	✓	—
PID Control	✓	✓	P control	—
ON/OFF and Vacuum Control on Handpiece	✓	✓	✓	—
Interface to Control Preheater	✓	✓	✓	—
Keypad Lock, Offset	✓	✓	✓	—
Forced Cool-down	✓	✓	✓	✓
Vacuum Pick-up	✓	✓	✓	✓
Digital Display	✓	✓	✓	✓
Flow Meter	✓	✓	✓	✓
Auto Cool-down	—	—	✓	✓
Ergonomic Handpiece	✓	✓	✓	✓

*Handpiece with removed SMD can be lifted automatically after the reflow process is finished.

SPECIFICATIONS

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

Control Unit

Model	XFC-301	XFC-300	XFC-210	XFC-110
Output Voltage	220–240 V AC		220 V, 230 V, 240 V AC	
Air-flow Meter	Equipped			
Air-flow Volume	5–25L /min		5–23L /min	5–25L /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	
Weight	7.6 kg (w/o cord)		8.4 kg (w/o cord)	7.8 kg (w/o cord)
Accessory	Connection Cable with Preheater, Handpiece Holder, XVCW-SET			Handpiece Holder, XVCW-SET

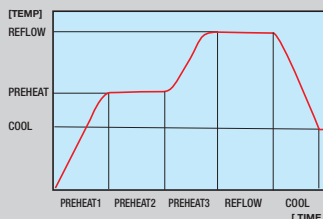
Handpiece Unit

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

MODES

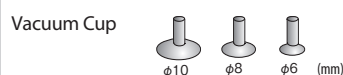
NORMAL	Create your own profiles for the 5 zones.
AUTO	Can be set to the desired profile without a test. (PAT.) XFC-301/300 only
HAND	Configure temperature settings for manual rework.

XFC-301/300 AUTO PROFILE EXAMPLE



REPLACEMENT PARTS / OPTIONS

Heater	Vacuum Cup ø6 mm
XFC-100H	XVCW-6
XFC Heater Pipe	Vacuum Cup ø8 mm
XFC-100HP	XVCW-8
Vacuum Cup Set	Vacuum Cup ø10 mm
XVCW-SET	XVCW-10



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	SO8

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)

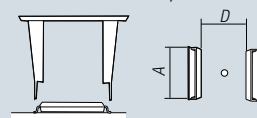
P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNQG 12 × 12	0.472	12	0.551	14	0.472	12	0.551	14	QFP64,QFP48,QFP80,BQFP28
XNQG 14 × 14	0.591	15	0.677	17.2	0.591	15	0.677	17.2	SQFP100, TQFP100
XNQG 14 × 20	0.591	15	0.665	16.9	0.827	21	0.906	23	SQFP12, QFP80, QFP100
XNQG 16 × 16	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

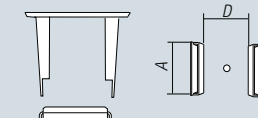
XNSG series

SO, SOL



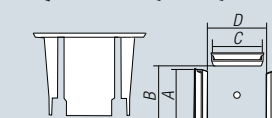
XNSG series

SOJ

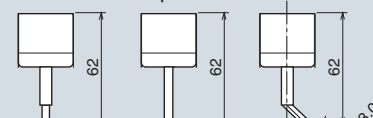


XNQG series

QFP / BQFP



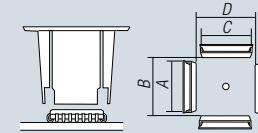
For Discrete Components



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

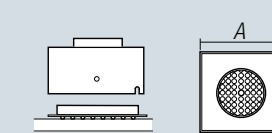
XNPG series

PLCC



XNBG series

BGA



XNDG-1

ID: 2.0

62

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Fixes the XFC series handpiece securely.

HANDPIECE HOLDER XK-1

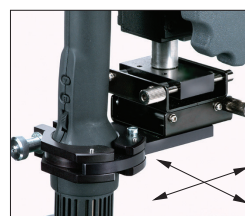


- Holder for XFC handpiece to attach to XPR-620/1000 preheater.

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

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

HANDPIECE HOLDER XK-2



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

MODEL	XK-2
X direction adjustable range	20 mm
Y direction adjustable range	20 mm
Control knob pitch	0.8 mm per one complete turn
Dimensions	Holder : 330 (L) x 110 (W) x 196 (H) mm Column : ø28 x 390 mm
Weight	Holder : 1.8 kg / Column : 480 g

Smooth motion. Easy mounting and removing.

BOARD HOLDERS XU-1/XU-1S **RoHS**

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



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

PREHEATER XPR-610 **RoHS** **ANTI STATIC**

- 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.



XPR-610

Preheater with High-Powered Heater

PREHEATER XPR-620 **RoHS** **ANTI STATIC**

- Able to manage accurate temperature by PID controller.
- You can confirm both set temperature and real temperature at a glance by digital display.
- System upgrade is possible by combining with Hot-Air Rework Station XFC series (With Optional Holder Post Fixing Screw Hole).



XPR-620

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

PREHEATER XPR-1000 **RoHS** **ANTI STATIC**

- 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-610	XPR-620	XPR-1000
Voltage	110–120 V, 220–240 V AC 50/ 60 Hz		220 V, 240 V AC 50/ 60 Hz
Power Consumption	560–650 W, 530–630 W		2,100 W
Power Cord Length	1.5 m (3 core cord) Inlet type		3 m (3 core cord) w/o plug
Heater	Nichrome Heater		IR
Temperature Control System	PID Control		
Temperature Setting Range	Room temperature–300°C		
Heating Area	Min. 10 x 10 mm /Max. 58 x 58 mm	58 x 58 mm	270 x 270 mm
Air Flow (Fan Performance)	0.23 m ³ /min		
Recommended Holder	Mini PCB Holder Assy (included)	XU-1/ XU-1S (Sold separately)	Board Holder (included)
Max. PCB size	150 mm x open side	305 mm x open side	424 x 460 mm (Max.)
Dimensions	180 (W) x 90 (H) x 256 (D) mm	266 (W) x 90 (H) x 413 (D) mm	508 (W) x 145 (H) x 610 (D) mm
Weight	2.8 kg	5.1 kg	16.6 kg

Speedy and accurate reworking of chip parts.

SOLDERING TWEEZERS (Control Unit, Soldering Tweezers Unit) XST-80

MULTIFUNCTION TWEEZERS UNIT
Calibration, Sleep, Keylock, etc..

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

GRIP WITH INTEGRATED TIP
Allows less deviation of both tips.

ERGONOMIC GRIP DESIGN
Prevents fatigue

* The station unit for the XST-80 is our Lead-Free Soldering Station RX-802AS.



Tip (Tip cartridge) not included

CALIBRATION SERVICES
We provide calibration and/or certification for a fee.



Multifunction soldering tweezers unit

Equipped with intelligent function [Calibration (PAT.), Sleep function (PAT.), Keylock function (PAT.)]. RX-822AS can use both soldering unit and tweezers simultaneously.

Ergonomic grip design

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

Grip with integrated tip

High-accuracy design with minimum tip deviation. Easy replacement of hot tips without any other tools.



Soldering tweezers stand ST-28

REPLACEMENT PARTS / OPTIONS

Soldering Tweezers Unit
XST-80G

Soldering Iron Stand Sponge
ST-53SP

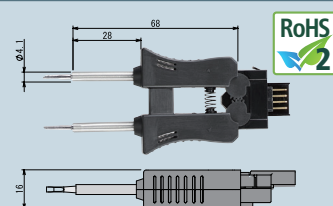
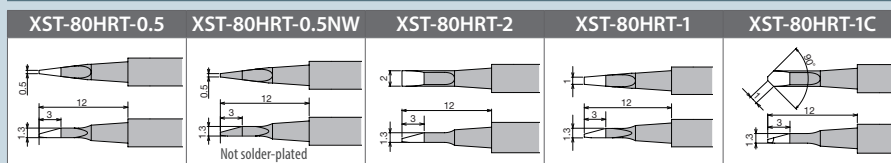
Soldering Iron Stand Cleaner
ST-40BW

Soldering Tweezers Stand
ST-28



REPLACEMENT PARTS / OPTIONS

Tips/heaters not sold apart from cartridges.



SOLDERING TWEEZERS UNIT (Tweezers unit grip only)

XST-80G

Tip (Tip cartridge) not included



ST-28

Soldering Tweezers Stand
ST-28
Front Opening of the Tip Cartridge
ST-28MS

For use with RX-822AS/852AS/802AS/812AS.

Calibration (PAT.), Sleep function (PAT.), Keylock function (PAT.) are available.

RX-822AS can use both soldering unit and tweezers simultaneously.

When you use the soldering iron stand ST-21, 22 or ST-27 with XST-80G, please remove its front opening, and replace with the front opening ST-28MS for the tip cartridge (sold separately).



APPLICABLE MODELS - SAMPLE CONFIGURATION

2 soldering irons can be used.

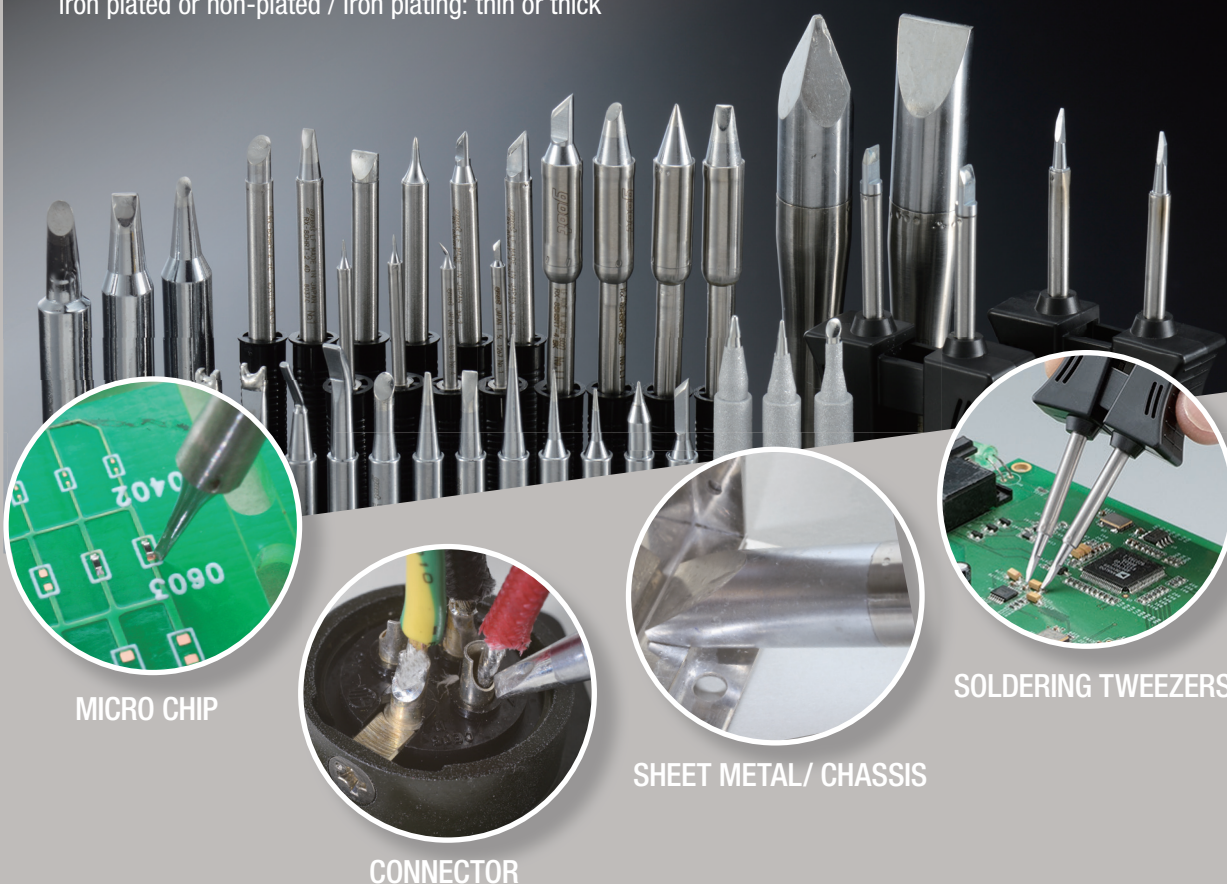


Replacement Tips/ Custom Tips

In-house Integrated Production

Shapes and Specifications Pursuing Soldering Work

Iron plated or non-plated / Iron plating: thin or thick



MICRO CHIP

CONNECTOR

SHEET METAL/ CHASSIS

SOLDERING TWEEZERS

Custom tips are also available from small lots. It does not matter whether it is for hand soldering or robot soldering.

Please access from the following URL or QR code on the right.
<http://www.goot.jp/support/cu-tips/>



DESOLDERING PRODUCTS

DESOLDERING PRODUCTS

SERVICE STATION

AUTOMATIC DESOLDERING STATION

PORTABLE DESOLDERING GUNS

DESOLDERING WICKS

DESOLDERING SUCKERS



Omnifunctional machine for soldering, desoldering and reworking.

SERVICE STATION SVS-800AS

REWORK UNIT

The temperature can be set to max 550°C.

SOLDERING UNIT

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

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



Nozzles sold separately.



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

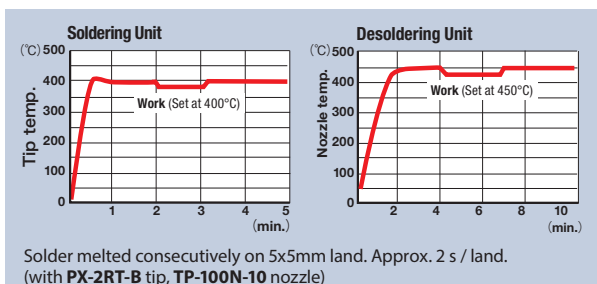
ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

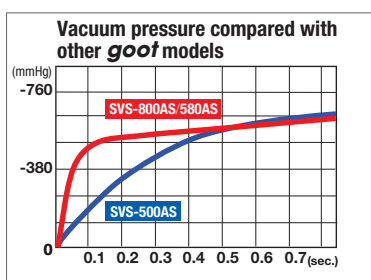


PRODUCT SPECIFICATIONS / FUNCTIONS

TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES

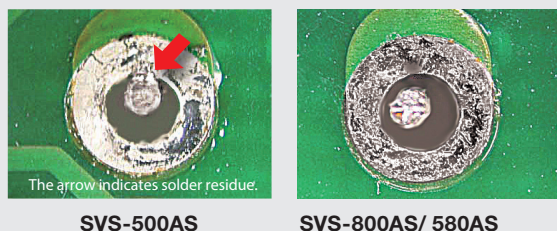


The open-valve allows the device to reach vacuum pressure of -0.06MP (approx. -450 mmHg) in only 0.1 second. (about 4 times faster than our **SVS-500AS**).



SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.



OPEN-VALVE MECHANISM

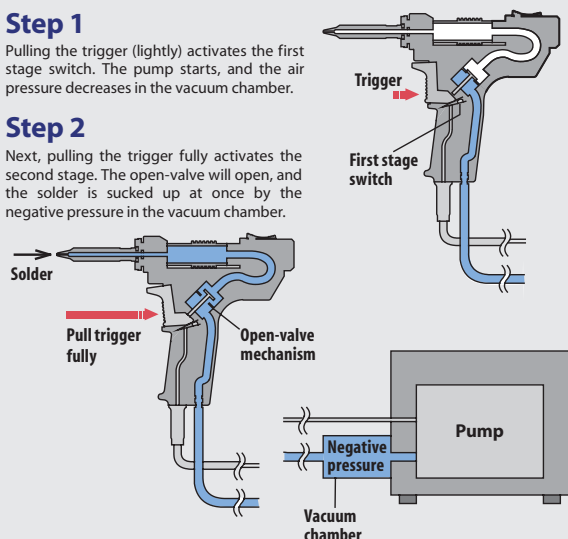
Two-stage trigger switch (PAT.P)

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	SVS-800AS	SVS-580AS
Voltage	220-240 V AC 50/ 60 Hz	110 V,120 V, 220-240 V AC 50/ 60 Hz
Power Consumption	670-760 W	200 W (110 V,120 V) 270-300 W (220-240 V)
Power Cord Length	1.5 m Inlet type	1.5 m
Temp. Setting Range	Desoldering Unit: 250-450°C Soldering Unit: 200-480°C Rework: 150-550°C	250-450°C 200-480°C
Insulation Resistance	Over 10 MΩ (500 V DC)	Over 100 MΩ (500 V DC)
Vacuum Pump System	Diaphragm system	Diaphragm system
Vacuum	- 0.08 MPa (-600 mmHg)	- 0.08 MPa (-600 mmHg)
Air Flow	5-25L /min	-
Accessories	Cleaning pin TP-100CP-13/	Soldering iron stand ST-76
Total Weight	9.3 kg	4.0 kg

CONTROL BOX

Output Voltage	220-240 V AC	110 V,120 V, 220-240 V AC
Dimensions	405 (W) x 240 (H) x 235 (D) mm	205 (W) x 170 (H) x 160 (D) mm
Weight	8.4 kg (w/o cord, hose)	3.6 kg (w/o cord, hose)

SOLDERING UNIT

Input Voltage	220-240 V AC	110 V,120 V, 220-240 V AC
Power Consumption	85 W	
Ground Resistance	2 Ω or less	
Leak Voltage	Less than 2 mV	
Heater	Ceramic heater	
Cord Length	1.2 m	
Length	190 mm (with PX-2RT-B)	
Weight	70 g (with PX-2RT-B)	
Standard Tip	PX-2RT-B	

DESOLDERING UNIT

Input Voltage	220-240 V AC	110 V,120 V, 220-240 V AC
Power Consumption	70W	
Heater	Ceramic Heater	
Cord Length	1.2 m	
Dimensions	220 x 155 mm	
Weight	250 g (w/o cord, hose)	
Standard Nozzle	TP-100N-S5	

REWORK UNIT

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

This machine does not have vacuum pickup function.

For replacement tips, nozzles, and optional parts, refer to p.56 & p. 65



ST-76
soldering iron stand
(included)

DESOLDERING PRODUCTS

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
- ZERO VOLT SWITCH CIRCUIT**
Reduces noise during heater ON/OFF
- REPLACEABLE CARTRIDGE FILTER**
Makes changing the filter easy

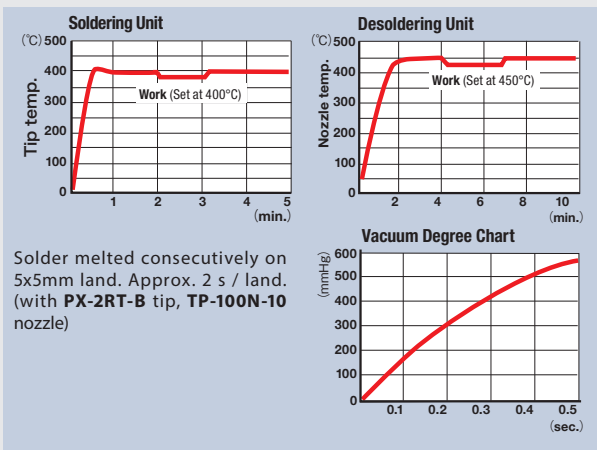
SOLDERING UNIT

●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 clots.

TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with **PX-2RT-B** tip, **TP-100N-10** nozzle)

SPECIFICATIONS

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

CONTROL BOX

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

DESOLDERING UNIT

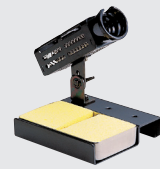
Input Voltage/Power Consumption	110-130 V, 220-240 V AC / 85 W
Heater	Ceramic Heater
Cord Length	1.2 m
Dimensions	220 x 155 mm
Weight	250 g (w/o cord, hose)
Standard Nozzle	TP-100N-10

SOLDERING UNIT

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

For replacement tips, nozzles, and optional parts, refer to **p. 65**

ST-76 soldering iron stand (included)



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

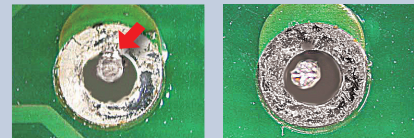
REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

TP-200AS

TP-280AS



OPEN-VALVE MECHANISM

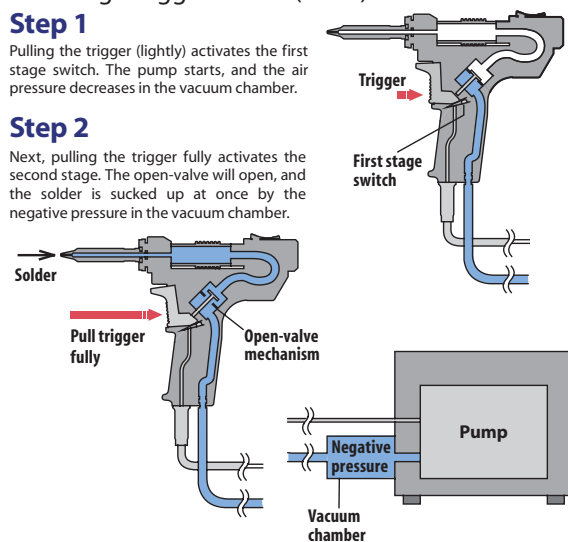
Two-stage trigger switch (PAT.P)

Step 1

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

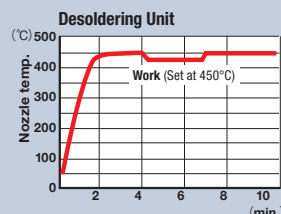
Step 2

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.

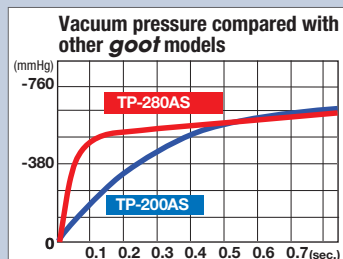


NOZZLE TEMPERATURE-RECOVERY FEATURES

Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with TP-100N-10 nozzle)



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



SPECIFICATIONS

MODEL	TP-280AS
Voltage	110 V, 120 V, 220-240 V AC 50/ 60 Hz
Power Consumption	130 W (110 V, 120 V) 170-200 W (220-240 V)
Power Cord Length	1.5 m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100 MΩ(500 V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08 MPa (-600 mmHg)
Accessories	Cleaning pin TP-100CP-13 Soldering iron stand ST-76
Total Weight	Approx. 2.9 kg (w/o cord, hose)

CONTROL BOX

Output Voltage	110 V, 120 V, 220-240 V AC
Dimensions	95 (W) x 205 (H) x 256 (D) mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

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

For replacement tips, nozzles, and optional parts, refer to p. 65

ST-76
soldering iron
stand (included)



DESOLDERING PRODUCTS

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

AUTOMATIC DESOLDERING STATION TP-200AS

- 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.



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

ST-76 soldering iron stand (included)



For replacement tips, nozzles, and optional parts, refer to p. 65

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

ZERO VOLT SWITCH CIRCUIT

Reduces noise during heater ON/OFF

CERAMIC HEATER WITH INTERNAL SENSOR

A wide range for terminals, connectors and flat ICs

REPLACEABLE CARTRIDGE FILTER

Makes changing the filter easy

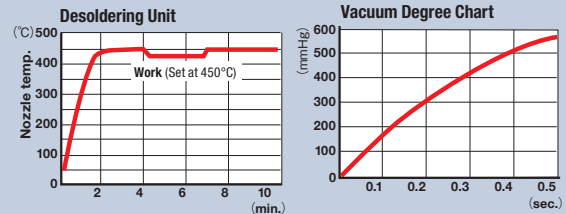
- Compact design with an internal motor, pump, and temperature-control circuit built into the grip. Portable and efficient.
- Maximum vacuum of -0.08MPa (-600 mmHg). Removes through-hole solder easily.
- Sensor feedback system allows temperature setting from $250\text{--}450^\circ\text{C}$.
- Makes changing the filter easy.

SPECIFICATIONS

MODEL	TP-100	TP-100AS
Voltage	110–130 V, 220–240 V AC 50/ 60 Hz	
Power Consumption	80 W (110–130 V), 70–75 W (220–240 V)	
Power Cord Length	1.5 m	
Temperature Setting Range	250–450°C	
Insulation Resistance	Over 100 MΩ (500 V DC)	
Vacuum Pump System	Diaphragm system	
Vacuum	-0.08 MPa (-600 mmHg)	
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	470 g (w/o cord)	

NOZZLE TEMPERATURE-RECOVERY FEATURES

Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with TP-100N-10 nozzle)



SPECIFICATIONS

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

CONTROL BOX

Output Voltage	110 V, 120–130 V, 220–240 V AC
Dimensions	95 (W) × 205 (H) × 256 (D) mm
Weight	2.6 kg (w/o cord, hose)

DESOLDERING UNIT

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



Can be set from 250–450°C.

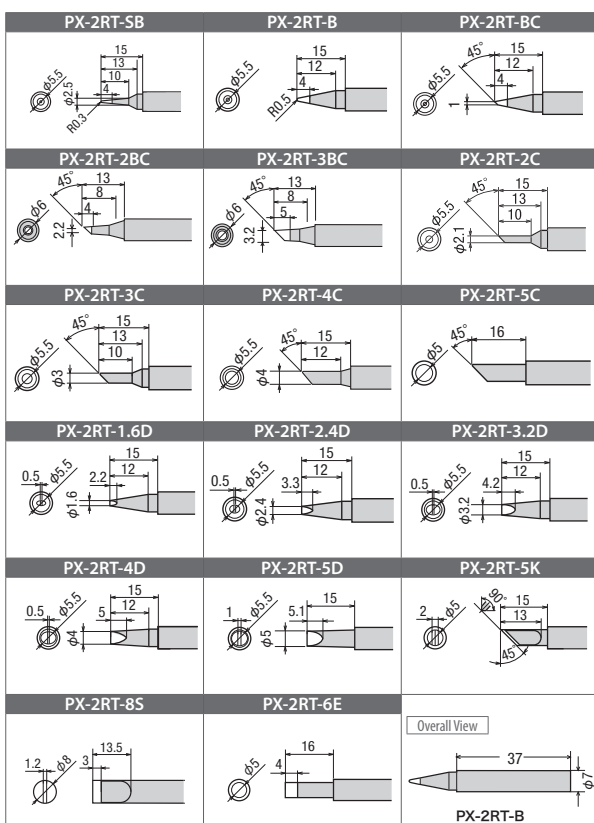
Carry case with heat resistant pipe that allows the gun to be stored immediately after use. Also includes stand to rest the gun.

Carry case included.

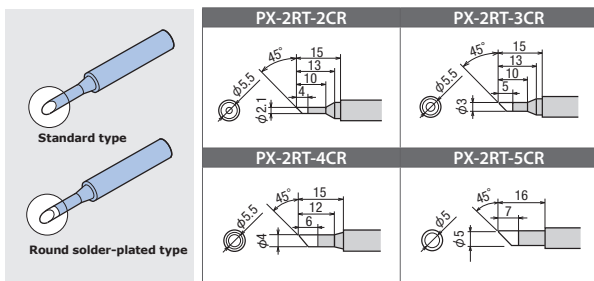
For replacement tips, nozzles, and optional parts, refer to p. 65

REPLACEMENT TIPS

SVS-800AS/580AS/500AS

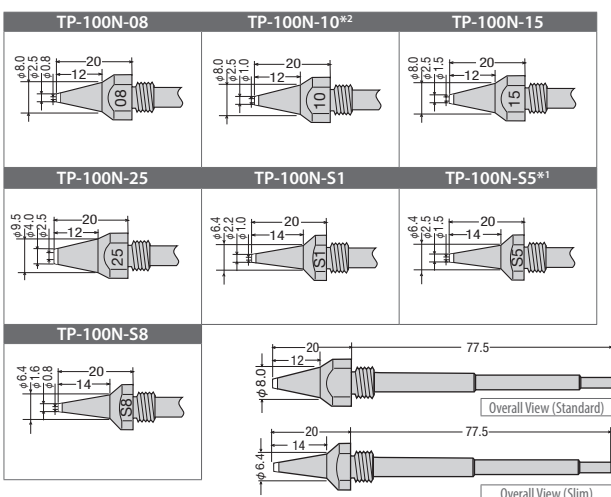


ROUND SOLDER-PLATED TIP



REPLACEMENT NOZZLES

SVS-800AS/580AS/500AS/TP-280AS/TP-200AS/TP-100(AS)



*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

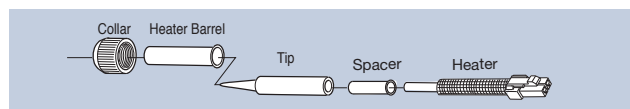
REPLACEMENT PARTS / OPTIONS

REPLACEMENT PARTS FOR SVS-800AS/580AS/500AS

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

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

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



REPLACEMENT PARTS FOR TP-280AS/200AS

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

COMMON PARTS

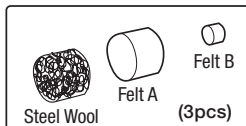
Filter

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

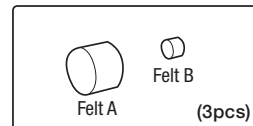
Cleaning Pin Vice

Pin vice body (The drill bit is not included.)	Cleaning Pin
TP-100PV	ø0.7 mm (for ø0.8 & 1.0 mm nozzle)
Drill Bit ø0.7 mm	TP-100CP-07
TP-100DB-07	ø1.3 mm (for ø1.5 & 2.5 mm nozzle)
Drill Bit ø0.9 mm	TP-100CP-13
TP-100DB-09	
Drill Bit ø1.4 mm	
TP-100DB-14	
Drill Bit ø2.4 mm	
TP-100DB-24	

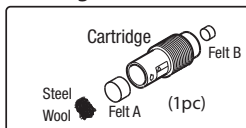
Filter Set TP-100F



Felt Set TP-100FT



Cartridge Set TP-100K



Cleaning Pin Vice body



DESOLDERING PRODUCTS

Conventional dispenser pack DESOLDERING WICKS CP series



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



Conventional dispenser pack

MODEL	Type	Width	Length
CP-1015	Plain Knitting	Approx. 1.0 mm	Approx. 1.5 m
CP-1515	Plain Knitting	Approx. 1.5 mm	
CP-2015	Plain Knitting	Approx. 2.0 mm	
CP-2515	Plain Knitting	Approx. 2.5 mm	
CP-3015	Plain Knitting	Approx. 3.0 mm	
CP-3515	Tubular Knitting	Approx. 3.5 mm	

ECONOMICAL PACKS OF 10PCS DESOLDERING WICKS CP series



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



Economical packs of 10pcs

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

Dispenser pack with stainless steel mouth DESOLDERING WICKS CPY series



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



Dispenser pack with stainless steel mouth

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

Bulk-length spool DESOLDERING WICKS CP-B series



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



Bulk-length spool

MODEL	Type	Width	Length
CP-10B	Plain Knitting	Approx. 1.0mm	Approx. 30m
CP-15B	Plain Knitting	Approx. 1.5 mm	Approx. 30m
CP-20B	Plain Knitting	Approx. 2.0 mm	Approx. 30m
CP-25B	Plain Knitting	Approx. 2.5 mm	Approx. 20m
CP-30B	Plain Knitting	Approx. 3.0 mm	Approx. 20m
CP-35B	Tubular Knitting	Approx. 3.5 mm	Approx. 15m

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.

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



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

Rosin	Length	Width						Quantity
		1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm	3.5 mm	
HALOGEN-FREE	1.5 m			CPN-2015-10		CPN-3015-10		10
RMA flux	1.5 m	CP-1015	CP-1515	CP-2015	CP-2515	CP-3015	CP-3515	1
		CP-1015-10	CP-1515-10	CP-2015-10	CP-2515-10	CP-3015-10	CP-3515-10	10
	2.0m		CP-15Y	CP-20Y	CP-25Y	CP-30Y	CP-35Y	1
	15m						CP-35B	1
	20m				CP-25B	CP-30B		1
	30m	CP-10B	CP-15B	CP-20B				1

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

DESOLDERING SUCKERS **GS series**



GS-100

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage

JUMBO SIZE Large vacuum capacity



GS-104

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage



GS-108

SELF-CLEANING SHAFT
To prevent solder clogs



GS-150

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage

JUMBO SIZE Large vacuum capacity



GS-154

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage



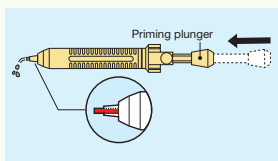
GS-158

SELF-CLEANING SHAFT
To prevent solder clogs



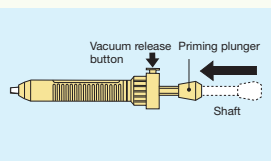
SELF-CLEANING SHAFT

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.



The shaft slides into the body, and the tool stores compactly in the toolbox.



GS-108/158
Hole for hook

SPECIFICATIONS

MODEL	GS-100	GS-104	GS-108
Color	Ivory		
Length	330 mm	275 mm	190 mm
When Stored	240 mm	205 mm	—
Weight	89 g	65 g	25 g
Diameter	ø23 mm	ø19 mm	ø14 mm
Applicable Nozzle	GS-100N		GS-108N

MODEL	GS-150	GS-154	GS-158
Color	Black		
Length	330 mm	275 mm	190 mm
When Stored	240 mm	205 mm	—
Weight	89 g	65 g	25 g
Diameter	ø23 mm	ø19 mm	ø14 mm
Applicable Nozzle	GS-150N		GS-158N

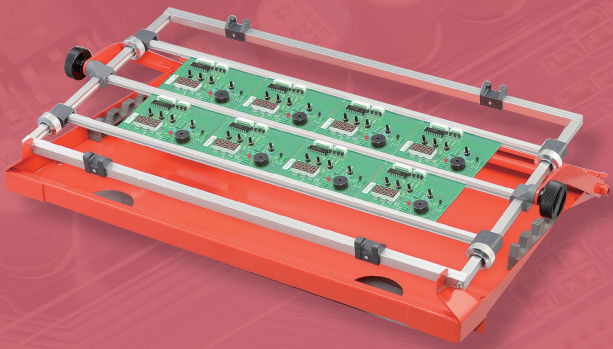
REPLACEMENT NOZZLES

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

SOLDERING ACCESSORIES

SOLDERING ACCESSORIES

- TIP RECOVERY
TIP REFRESHER
STARTER KIT
TIP CLEANERS
SOLDERING IRON STANDS
SOLDER REEL HOLDERS
MULTI CLAMP
PCB Holder
- MAGNIFIERS
MINI VISE
ANTI-STATIC MATS
WRIST STRAPS
SURFACE RESISTIVITY METER
AIR PURIFYING TYPE FUME VACUUM
LOW-DUST GLOVES / ANTI-STATIC GLOVES



Rub Tip Oxides Away

TIP RECOVERY ST-45

Rub tip oxides away, restore solder wetting capability.



MODEL	ST-45
Size	40 (W) x 60 (L) x 20 (T) mm
Weight	70 g

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

TIP CLEANERS ST-30/70



ST-30 Sponge	ST-70 Sponge
ST-30SP	ST-70/75SP

MODEL	Width	Depth	Height	Weight
ST-30	57 mm	87 mm	58 mm	35 g
ST-70	60 mm	110 mm	60 mm	70 g

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.

ST-40 Cleaner (2pcs)	
ST-40BW	

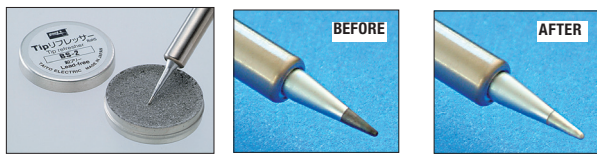
MODEL	Width	Height	Weight
ST-40	59 mm	60 mm	80 g



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	9 g

Value Package

STARTER KIT (ELECTRONICS/CRAFT & HOBBY) SG series Recommended for Beginners



MODEL	SG-1	SG-2
CLASSIFICATION	Electronics Kit	Craft & Hobby Kit
INCLUDED ITEMS	Solder for Electronics Desoldering Wick CP-2015 Tapered Reamer Tip Cleaner ST-30 Heat Clip H-1L	Solder for Craft & Hobby Square Scraper/ Knife Tip Cleaner ST-30 Heat Clip H-1L Soldering Paste BS-10

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

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

Only for ceramic soldering iron. HRC series compatible

SOLDERING IRON STAND ST-27



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

Just for XST-80 series.

SOLDERING TWEEZERS STAND ST-28

Built especially for XST-80 series.



MODEL	Width	Depth	Height	Weight
ST-28	72 mm	178 mm	106 mm	515 g

Superior stability



SOLDER REEL HOLDERS ST-51/52/53

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

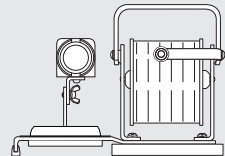


ST-53

ST-52
Each reel holds up to 1 kg of solder.



ST-51



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

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

REPLACEMENT PARTS / OPTIONS

ST-11 Sponge ST-11SP	ST-75/76/77/75V Sponge ST-70/75SP
ST-22/27/28 Cleaner (2pcs) ST-40BW	ST-22/27/28/53 Sponge ST-53SP



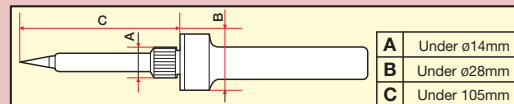
Space-saving compact package



ST-27/28 Cleaner

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

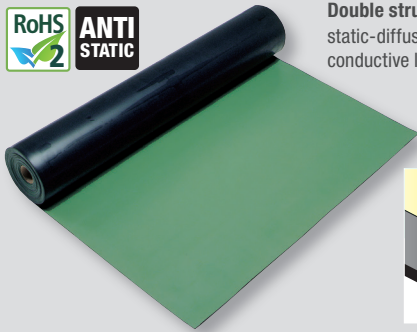
PERFECT CHOICE OF TIP CLEANER AND IRON STAND ● Best ○ Good



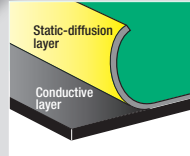
Item	Model	Nichrome Type				Ceramic Type				Temperature Controlled		
		KS HOT CA	HP	HRC	CS-21 CS-31	CXR-31 CXR-41	CXR-60 CXR-80 CXR-100	TQ	PX-335 PX-338 PX-342	PX-201 PX-401 PX-501 (AS) PX-601 (AS)		
Tip Cleaner	ST-30	○										
	ST-70	○	○									
	ST-11	○			○	○		○				
	ST-27			○	○	○	○	○	○			
Soldering Iron Stand	ST-53				○	○		○	○		○	
	ST-75	○										
	ST-76				○	○	○	○	○		○	
	ST-77				○	○	○	○	○		○	

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

ANTI-STATIC MATS WD-130/WD-13



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

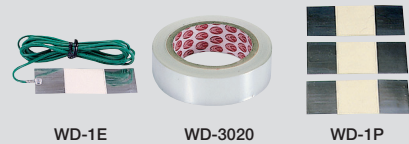


- Matte green. ●Available for work desks and floors.
- Elastic & scissible rubber sheet.

MODEL	Length	Width	Thickness	Material/ Hardness	Surface Resistivity	
					Surface (green)	Bottom (black)
WD-130	10m	1 m	2 mm	Synthetic Rubber/65	10^7-10^9 Ω/sq	10^3-10^5 Ω/sq
WD-13	2m					

OPTION

Item	Model	Specifications
Ground Wire Plate	WD-1E	50×100 mm/2 pieces / 2m cords
Short Plate	WD-1P	50×100 mm/10 pieces
Aluminum Tape	WD-3020	0.05 mm (T) x 30 mm (W) x 20m (L)



Color LED measurement display.
Compact and portable.

SURFACE RESISTIVITY METER WA-400

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

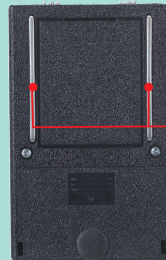
RTT Test Jack

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.



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.

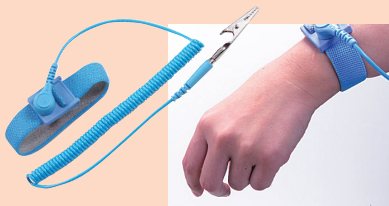
Range	Classification	LED Display
Less than $10^5 \Omega (\Omega/\text{sq})$	Conductive	Green
Between 10^6 and $10^{11} \Omega (\Omega/\text{sq})$	Dispassive	Orange
More than $10^{12} \Omega (\Omega/\text{sq})$	Insulative	Red

●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 9 V battery (006P). ●Measurements instantly displayed in three-color LED.

MODEL	WA-400
Power Supply	9 V (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	70 g (w/o battery)
Accessories	2 x Test Wires

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.



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

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

Low dust-shedding with woolly nylon.

LOW-DUST GLOVES / ANTI-STATIC GLOVES WG series

WG-1/2 series LOW-DUST GLOVES



Uses woolly nylon that generates less dust from gloves.

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

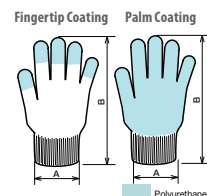
MODEL	Coating	Size	A×B
WG-1S	Fingertip Coating	S	65 × 185 mm
WG-1M		M	65 × 205 mm
WG-1L		L	70 × 225 mm
WG-2S	Palm Coating	S	65 × 185 mm
WG-2M		M	65 × 205 mm
WG-2L		L	70 × 225 mm

WG-3/4 Series ANTI-STATIC GLOVES



Remove static electricity immediately.

- Remove static charge quickly with woolly nylon & conductive fiber material.
- High elasticity. Perfect for holding small components. Surface resistance: $3.3 \times 10^8 \Omega$



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

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

SOLDERING ACCESSORIES

Collection efficiency to 99.97%

AIR PURIFYING TYPE FUME VACUUM SS-80AS

Self-standing duct that can be attached/detached without any tools. Digital air-volume adjustment function. Timer function for telling time to replace filters. Clog detection function. Optional 2nd duct hose and nozzle allow two spaces to be cleaned at the same time. Optional HEPA filter boosts collection efficiency to 99.97%.



*Optional second duct and nozzle allow work with two hoses.

One self-standing duct nozzle is included as standard.



Duct hose is a removable block structure. Lengthening/shortening is possible.



Easy to move and install because of 4 casters/wheels.

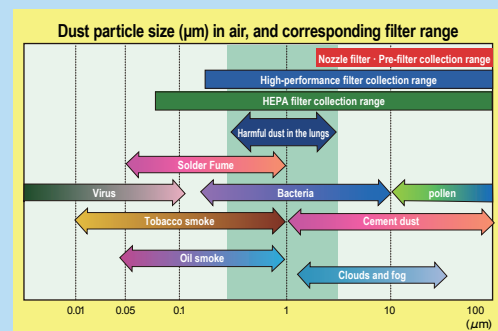
- Air volume has 10 levels. Fine adjustment and quiet operation.
- Self-standing duct hose can be shortened/lengthened.
- With HEPA filter, high-performance can be achieved.

REPLACEMENT PARTS / OPTIONS

Main-Filter (95%) SS-80MF	Middle Filter (95%) SS-80MD
Main Filter (HEPA) SS-80MFH	Middle Filter (HEPA) SS-80MDH
Pre-Filter (5pcs) SS-80PF	Duct Hose SS-80D
Nozzle Filter (10pcs) SS-80NF	Duct Cap SS-80C
Nozzle SS-80N	Remote Control SS-80RM

ANTI STATIC

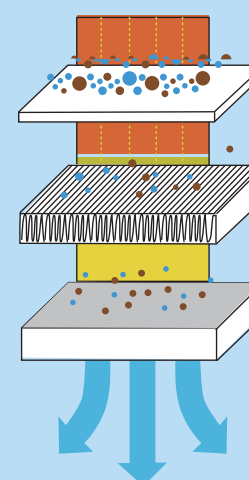
Absorbs smoke generated during soldering work, providing a comfortable work environment.



Nozzle Filter

1. Nozzle Filter

It absorbs large dust particles and suspended matter in the air, and protects the lower layer filter. (Replacement: about 3 to 5 days)



2. Pre-Filter

Fiber material is thick, it can absorb large-grain dust particles such as from laser cutting and die casting. (Replacement: 1 week to 2 months)

3. Middle Filter

You can choose from HEPA or high-performance type.

Absorbs smoke from soldering and sealing work, pollutants such as airborne bacteria, pollen, asbestos and so on. It is a filter with a large surface area and high dust holding capacity. (Replacement: 3 to 5 months)

4. Main Filter

You can choose from HEPA or high-performance type.

Generous amount of high-performance activated carbon absorbs odors and some harmful gases. (Replacement: 6 to 12 months)

For the factory with a lot of soldering robots

MODEL	SS-80AS
Voltage	110-120 V, 220-240 V AC 50/60 Hz
Power Consumption	160W
Noise Level	53dB (at 1m from the unit)
Smoke Exhaust	2 ducts (ø75 mm)
Collection Efficiency	95% 0.3μm (Middle-class filter)
Duct Hose Length	1.35m
Suction Capacity	150 m³/h with 2 duct hoses
Power Cord Length	1.5 m inlet type
Dimensions/ Weight	250 (W) × 410 (H) × 490 (D)mm/ 14.5 kg
Accessories	Duct Hose SS-80D , Nozzle SS-80N , Nozzle Filter SS-80NF , Duct Cap SS-80C , Main Filter SS-80MF , Pre-Filter SS-80PF , Dedicated Remote Control

SOLDERING WORK MATERIALS

Provides improved soldering performance.

SOLDERING PASTES

BS-850

Good for PCB lead wires and electric components.



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

Improves wettability.

SOLDERING PASTES (Hobby Use)

BS-10/15

NOTE: BS-10/15 is a weakly acidic paste. Cannot be used on PCBs.



BS-15

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

SOLDERING WORK MATERIALS

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.

MODEL	BS-H20B
NET Content	20 mL
Composition	Boron Nitride 25% Water 70-80% Mg-Al Silicate Less than 5%
Heat resistance	900°C



Cap with brush

Improves oxidized soldering tips.

TIP REFRESHER BS-2



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



Industry-standard composition



LEAD-FREE SOLDERS SF-A series (Rosin core)

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



Low-Ag type



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

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

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

Eco-friendly



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

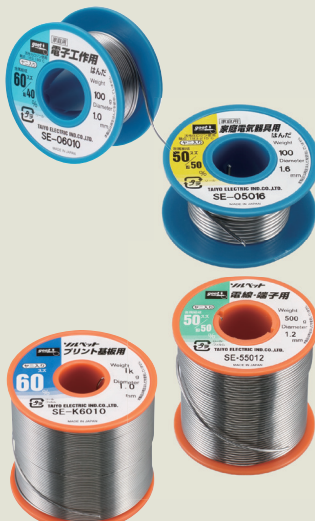
●High-reliability residue after soldering. Wash-free available. Does not intentionally contain halogens. Fewer than 1,000 ppm each of chlorine, bromine, fluorine, and iodine. (JEITA Standards)

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

Special purpose



SPECIAL SPOOL-SOLDERS SE special series



NOTE: SE-0ST16 & SE-0BA16 are not rosin core. They require flux.

SPOOL-SOLDERS SE series

MODEL	Item	Composition (Sn-Pb)	M.T.	Dia.	Weight	Length (reference)	Rosin
SE-06003RMA	RMA WASH FREE	60-40%	183~190℃	ø0.3 mm	100 g	180 m	Rosin core
SE-06006RMA	SOLDER			ø0.6 mm		48 m	
SE-0AG08	Ag solder	60-37.5-2.5(Ag)%	178-211℃	ø0.8 mm	100 g	27 m	Rosin core
SE-06308	Eutectic solder	63-37%	183-184℃	ø0.8 mm		27 m	
SE-0ST16	Stainless-use solder	63-37%	183-184℃	ø1.6 mm		7 m	Non-rosin core
SE-0BA16	Metal-work solder	45-55%	183-227℃	ø1.6 mm		6 m	
SE-05010	Pb containing solder	50-50%	183~215℃	ø1.0 mm	100 g	17 m	Rosin core
SE-05012				ø1.2 mm		12 m	
SE-05016				ø1.6 mm		7 m	
SE-05020				ø2.0 mm		4 m	
SE-55010				ø1.0 mm	500 g	85 m	
SE-55012				ø1.2 mm		60 m	
SE-55016				ø1.6 mm		35 m	
SE-55020				ø2.0 mm		20 m	
SE-K5010				ø1.0 mm	1 kg	170 m	
SE-K5012				ø1.2 mm		120 m	
SE-K5016				ø1.6 mm		70 m	
SE-K5020				ø2.0 mm		40 m	
SE-06006	Pb containing solder	60-40%	183~190℃	ø0.6 mm	100 g	48 m	Rosin core
SE-06008				ø0.8 mm		27 m	
SE-06010				ø1.0 mm		17 m	
SE-06012				ø1.2 mm		12 m	
SE-06016				ø1.6 mm	7 m		
SE-56006				ø0.6 mm	500 g	240 m	
SE-56008				ø0.8 mm		135 m	
SE-56010				ø1.0 mm		85 m	
SE-56012				ø1.2 mm		60 m	
SE-56016				ø1.6 mm		35 m	
SE-K6006				ø0.6 mm		1 kg	
SE-K6008				ø0.8 mm	270 m		
SE-K6010				ø1.0 mm	170 m		
SE-K6012				ø1.2 mm	120 m		
SE-K6016				ø1.6 mm	70 m		

HEATED TOOLS

HOT BOND
HOT STICKS
HOT KNIVES

HOT SLICER
FOAM CUTTER

Glue things easily.



HOT BOND HB-80

● Can be used for a wide of range purposes from interior decoration and display to cardboard packaging.

**Built-in
Safety Fuse**



MODEL	HB-80
Voltage	110–240 V AC 50 / 60 Hz
Power Consumption	14 W
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 (Approx. ø11 x 100 mm), Wire Stand

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

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, 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 s
Setting time	18 s
Viscosity	180°C 10000 cps 170°C 15000 cps
Peeling strength	Canvas 2.59 kg / cm
Glue strength	Shear strength PVC-PVC 27.81 kg / cm ² PVC-ABS 24.33 kg / cm ²

Nozzles

HB-80N-B	HB-80N-SB	HB-80N-2D
 Standard	 13	 23

For hobby use



MINI HOT BOND HB-45

● Adhesive item / hot bond widely used from hobby to DIY. Insert the special adhesive stick "Hot Stick" into the body, melt it with heat, and glue it.

**Built-in
Safety Fuse**



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

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

Hot sticks (solid glue) for Hot Bond



HB-150S-RS/300S-5KRS Hot stick for HB-80

Equivalent to Flame Retardant Standard UL94 V-0

MODEL	Color	Length/mm	Weight/g	Quantity
HB-150S-RS	white	Approx. ø11x150	Approx. 150	10
HB-300S-5KRS		Approx. ø11x3000	5k	Approx. 160

This stick is for Hot Bond HB-80. It has excellent flame retardancy, tackiness, and electric characteristics, and is especially suitable for bonding electronic components.



HB-300S-5KRS

HB-150S-RS

HB-40S Hot stick for HB-45

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



HB-40S-B1

HB-100S-B1

HB-100S/200S Hot stick for HB-80

MODEL	Color	Length/mm	Weight/g	Quantity
HB-100S		Approx.	Approx. 100	10
HB-100S-B1	TP	300	Approx. 350	36
HB-100S-1K		1 k	Approx. 100	
HB-100S-10K		10 k	Approx. 1000	
HB-200S		Approx.	Approx. 230	12
HB-200S-1K		1 k	Approx. 50	
HB-200S-10K		10 k	Approx. 520	



HB-200S

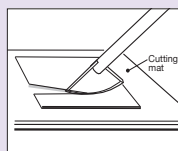
HB-100S-1K

For nylon net or cloth HOT SLICER HE-110



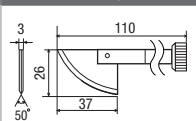
●Best for heat slicing of nylon garden nets, fish nets, promotional flags, etc.●The sliced end does not fray.

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



REPLACEMENT PARTS / OPTIONS

HE-110TL



HE-110 Heater CXR-100H

MODEL	HE-110
Voltage	110-130 V, 220-240 V AC 50/ 60 Hz
Power Consumption	48 W
Heater	Ceramic Heater
Length	284 mm
Weight	104 g

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

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.

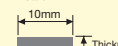
Plastic Types	Cutting Ability			
	HOT-30R		HOT-60R	
	Thickness	Bar (Dia.)	Thickness	Bar (Dia.)
Vinyl Chloride	0.5 mm	2 mm	1 mm	3 mm
Acrylic	0.5 mm	2 mm	1 mm	3 mm
ABS	1 mm	3 mm	2 mm	4.5 mm
Polypropylene	1 mm	3 mm	1 mm	3 mm
Polycarbonate	1 mm	3 mm	1 mm	3 mm

● Cross section view of sample material

<Round bar>

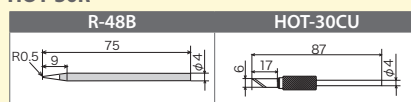


<Board>



REPLACEMENT PARTS / OPTIONS

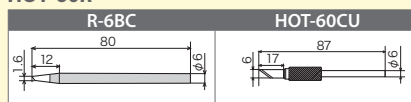
HOT-30R



HOT-30R Heater
KS-30H

HOT-60R Heater
KS-60H

HOT-60R



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

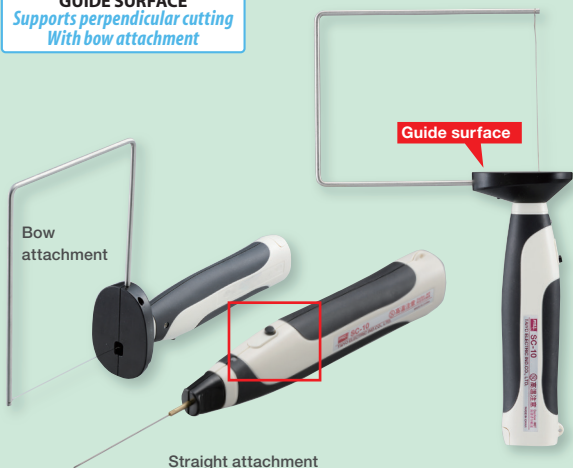
*The length does not include the cord bushing. The weight does not include the cord.

This model does not come with 3-prong/3-wire power cord.

For art & craft cutting of styrofoam. 4-Battery Foam Cutter SC-10



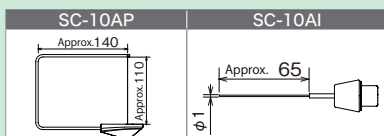
GUIDE SURFACE
Supports perpendicular cutting
With bow attachment



● Cutting head changeable for your work. ● Can cut max. 100mm thickness (with bow attachment) ● LED color changes when battery is low. ● Can cut Extruded Polystyrene Foam with 4-battery power.



Model	SC-10
Voltage / Power Consumption	6V / 9W
Batteries	4 AA Alkaline batteries (Ni-MH AA batteries available)
Temperature	300°C approx.
Cutting Power	5 sec. approx. for cutting styrofoam (thickness 4cm) 10cm
Heater	Nichrome Heater
Length/Weight	170mm/59g (only grip part)
Accessories	Bow attachment SC-10AP Straight attachment SC-10AI Nichrome Heater Wire 2 pieces

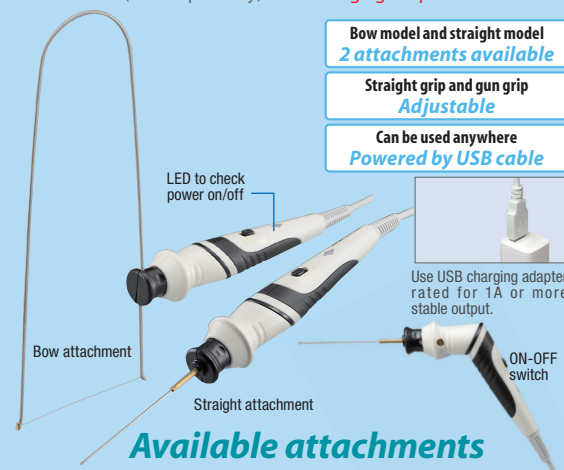


Nichrome wire (6 pcs)
SC-10APH

For art & craft cutting of styrofoam USB-powered styrofoam cutter SC-5



● Powered by USB cable. ● Smooth cuts: post-treatment (e.g. filing) not required. ● Can be used as soldering iron with our attachments (sold separately). *USB charging adapter not included.



Bow model and straight model
2 attachments available

Straight grip and gun grip
Adjustable

Can be used anywhere
Powered by USB cable

LED to check power on/off

Use USB charging adapter rated for 1A or more stable output.

ON-OFF switch

Available attachments



Grip rotates to become a gun. Choose which style of grip is good for your job.

Model	SC-5AP	SC-5AI
Approx. 220	Approx. 65	
Approx. 80	Approx. 60	
Approx. 1		

Nichrome wire 1m
SC-5APH

Can be used as soldering iron with our attachments (sold separately).
p.42 MSD-5

Model	SC-5
Voltage/Power Consumption	5V/5W USB-A male
Temperature	200°C approx.
Cutting Power	7 sec. approx. for cutting styrofoam (thickness 4cm) 10cm
Heater	Nichrome Heater
Length/Weight	150mm/40g (only grip part, w/o cord)
Accessories	Bow attachment SC-5AP Straight attachment SC-5AI Nichrome Heater Wire 3 pieces

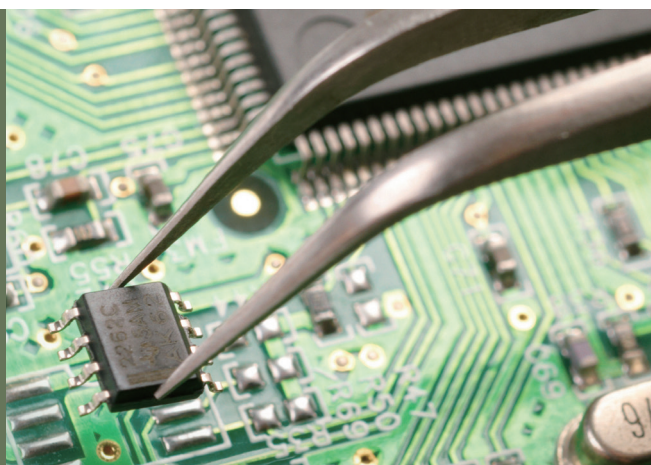
*Do not use this product with your computer or USB HUB etc. connected to your computer. Computer, inside parts, or connected parts might become unstable. We do not take any responsibility for any damage caused by connecting to computer.

HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS

HAND TOOLS

HEAT CLIPS
SOLDER ASSIST
CERAMIC CORE DRIVERS
CORE ALIGNMENT TOOLS
MAINTENANCE TOOL SETS
PRECISION TWEEZERS
SUPER CUTTERS
AIR-POWERED DEPANELING TOOL
HOBBY NIPPERS

HOBBY PLIERS
PRECISION NIPPERS
1.5 mm PLATFORM NIPPERS
PRECISION PLIERS
MANUAL DEPANELING TOOLS
CRIMPING PLIERS
WIRE STRIPPERS
PRECISION WIRE STRIPPERS
CABLE STRIPPERS



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.



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

Convenient set of 6 tools for assembling and repairing PCBs.



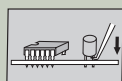
SOLDER ASSIST SA-10

NOTE : Not sold individually.

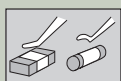
Off-set chip holder		45° chip holder
Split 45° lever		Fork shaft
Square scraper/chisel		Knife
Curved needle		Spring hook
Square tapered reamer		Tapered reamer
Stainless steel brush		Brass brush

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

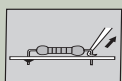
SUGGESTED USES



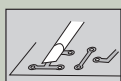
Lever
Removes ICs or condensers.



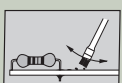
Chip Holder
Holds chips and micro components for soldering work.



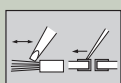
Hook
Removes components such as resistors.



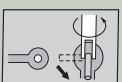
Knife
Removes PCB mask ink or rust, or cuts unnecessary circuits.



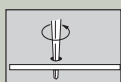
Brush
Removes solder scraps, PCB mask ink or rust.



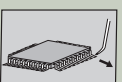
Scraper
Removes PCB mask ink or rust, or strips lead wires.



Fork Shaft
Bends lead wires in required directions.



Reamer
Opens or enlarges holes.



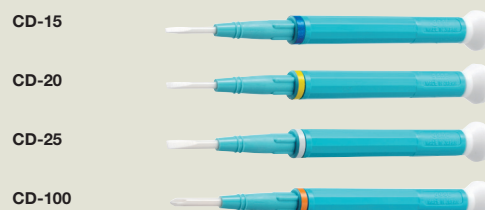
Needle
Removes flat ICs.

Best adjusting tool for high-frequency components.

CERAMIC CORE DRIVERS CD series

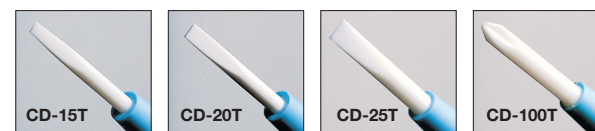


Non-conductive, anti-magnetic, and long-life screwdriver with zirconia ceramic tip. Best adjusting tool for high-frequency components such as in Tuner, TV, Radio, Transceiver.



MODEL	Length	Weight	Tip size	Tip type
CD-15	115 mm	5 g	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 (1.3x0.4 mm) CD-15T	Tip for CD-20 (1.8x0.4 mm) CD-20T
Tip for CD-25 (2.6x0.4 mm) CD-25T	Tip for CD-100 (No.0. +) CD-100T

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



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

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



HAND TOOLS TWEEZERS

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

PRECISION TWEEZERS [STANDARD] TS-10

Anti-magnetic stainless steel



TS-10

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

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

PRECISION TWEEZERS [LONG] TS-11

Anti-magnetic stainless steel



TS-11

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

Small-sized tweezer in standard model. Best with delicate work.

PRECISION TWEEZERS [SHORT] TS-12

Anti-magnetic stainless steel



TS-12

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

Round tip prevents damage to components.

PRECISION TWEEZERS [ROUND] TS-13

Anti-magnetic stainless steel



TS-13

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

Extra-fine tip with sharp and strong edges.

PRECISION TWEEZERS [ULTRAFINE] TS-14

Anti-magnetic stainless steel



TS-14

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

Eagle-beak tweezers with 45° bent tip.

PRECISION TWEEZERS [EAGLE BEAK] TS-15

Anti-magnetic stainless steel



TS-15

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

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

PRECISION TWEEZERS [REVERSE ACTION] TS-16/17

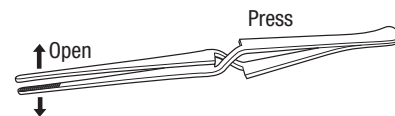
Anti-magnetic stainless steel



TS-16



TS-17



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

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

TL-10



TL-20



TL-20 Set Contents

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 (-) 4.0 mm	13	Solder	20	File
7	Screwdriver (-) 5 mm	14	Desoldering pump	21	Tool bag

TL-10 Set Contents

No.	Contents	No.	Contents
1	Pliers	8	Screwdriver (-) 5 mm
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

HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS

Light & Compact.
Suitable for hobby work.



HOBBY HAND TOOLS YN/YP series

MINI NIPPERS YN-1



MINI NIPPERS (FOR PLASTIC) YN-3



MINI PLIERS YP-1



MINI NIPPERS YN-4



MINI PLIERS YP-3



MINI PLIERS YP-4



MINI NIPPERS

MODEL	Max. Cut Dia.	Length
YN-1	ø2.0 mm (copper wire)	118 mm
YN-3	ø2.0 mm (copper wire)	118 mm
YN-4	ø1.8 mm (copper wire)	125 mm

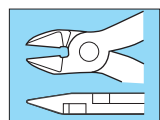
MINI PLIERS

MODEL	Max. Cut Dia.	Length
YP-1	ø1.2 mm (soft iron wire)	124 mm
YP-3	ø1.6 mm (soft iron wire)	145 mm
YP-4	ø1.6 mm (soft iron wire)	160 mm

Fabulous cutting ability.
Rockwell hardness HRC62.



SUPER CUTTERS YN-25AS

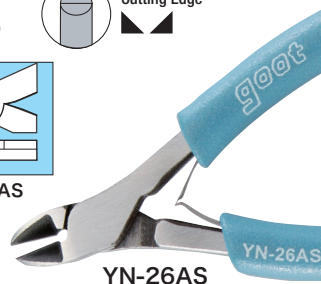
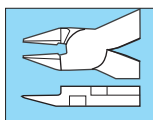
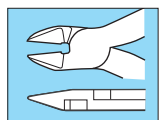


- Ball-bearing grade steel ●Black oxide coated to resist rust
- Anti-static model

Fabulous cutting ability.
Rockwell hardness HRC58.



SUPER CUTTERS YN-26AS/27AS



- High-quality steel
- Anti-static model

MODEL	Max. Cut Dia.	Length
YN-25AS	ø1.3 mm (Copper wire)	122 mm
YN-26AS	ø1.3 mm (Copper wire)	122 mm
YN-27AS	ø1.0 mm (Copper wire)	122 mm

Depaneling tool for cutting PCB tabs.

AIR-POWERED DEPANELING TOOL YN-300

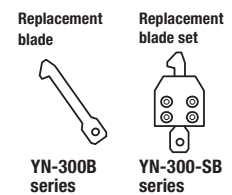


Blade not included.



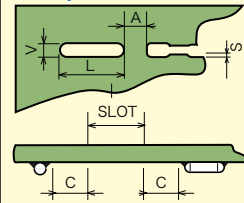
- Uses compressed air. ●Easy continuous operation with compressed air. ●Suitable for many kinds of PCBs in small lot production.

Replacement blade/ Replacement blade set



MODEL	YN-300
Compressed Air Pressure	6-7 Bar-Tube ø6
Consumption	3.5 NI/ min
Blade Material	Tempered steel
Approximate Dimensions (not including the blade)	Approx. 210 x 35 mm
Weight	400 g

PCB Specifications



PCB thickness	1.6 mm max.
Slot length (L)	min. 13 mm - max. 70 mm
Slot width (V)	1.5 mm / 1.8 mm / 2.0 mm (Depends on blade)
Slot width tolerance	0-0.02 mm
Distance between slots (A)	1 mm-3 mm (tol. 0+0.1 mm)
Protrusion (S)	max. 0.05 mm
Lower area of PCB free of components (C)	1.9 mm min.

MODEL	Replacement blade set	YN-300-SB15	YN-300-SB18	YN-300-SB20
Replacement blade	YN-300-B15	YN-300-B15	YN-300-B18	YN-300-B20
Blade Thickness		1.5 mm	1.8 mm	2.0 mm
Blade Material		Tempered steel		
PCB application size	A	1.5 mm	1.8 mm	2.0 mm
	B	1-3 mm		
	C	min. 13 mm-max. 70 mm		
	D	max. 1.6 mm		

Replacement blade

- Replacement blade 1.5 mm (LDPP15)
- YN-300-B15**
- Replacement blade 1.8 mm (LDPP18)
- YN-300-B18**
- Replacement blade 2.0 mm (LDPP20)
- YN-300-B20**

Replacement blade set

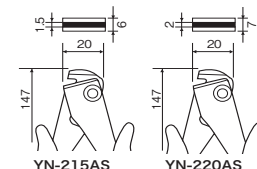
- Replacement blade set 1.5 mm (LPDPP15)
- YN-300-SB-15**
- Replacement blade set 1.8 mm (LPDPP18)
- YN-300-SB-18**
- Replacement blade set 2.0 mm (LPDPP20)
- YN-300-SB-20**

For depaneling PCBs
MANUAL DEPANELING TOOL

YN-210AS/215AS/220AS



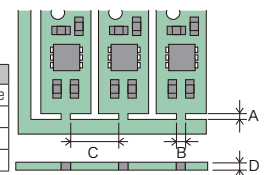
- For depaneling PCBs with slits, or perforations.
- Only light force required. Less flex, and less stress. ●Applicable for CEM-3 PCBs



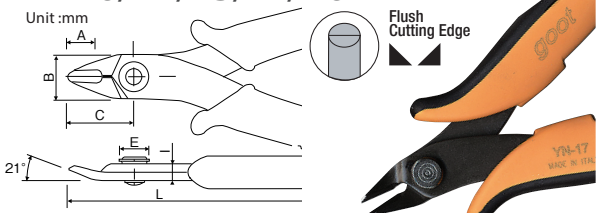
MODEL	Length	Weight	Blade Thickness
YN-210AS	147 mm	95 g	1.0 mm
YN-215AS			1.5 mm
YN-220AS			2.0 mm

Specifications

	YN-210AS	YN-215AS	YN-220AS
A	1.1 mm or more	1.6 mm or more	2.1 mm or more
B	2.5 mm or less		
C	25 mm or more		
D	2.0 mm or less		



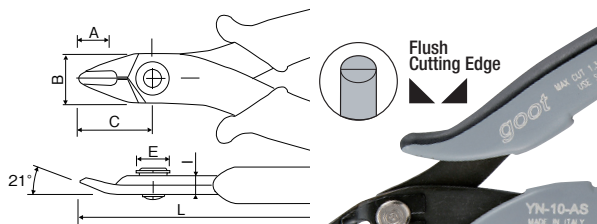
Micro Nippers FLAT CUTTING SURFACE YN-10/12/13/17/20



●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

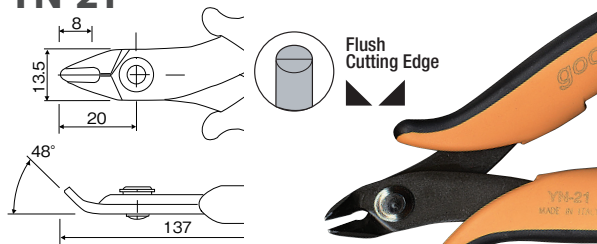


Unit :mm

●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



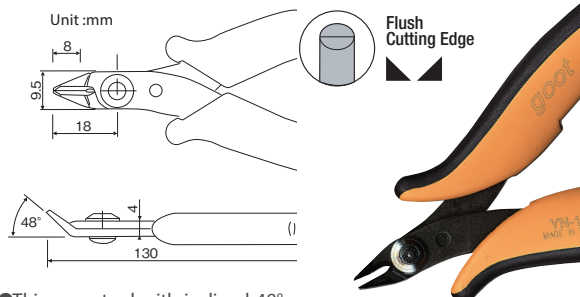
Unit :mm

●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	ø1.3 mm	137 mm

For High-Density PCBs. PRECISION NIPPERS YN-15

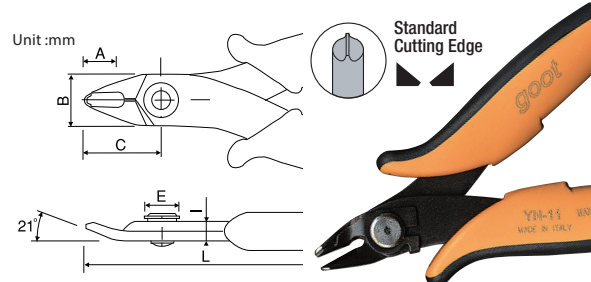


●Thin-nose tool with inclined 48° blades. Ideal for hard-to-reach areas. ●Clearly cuts flat IC leads by aligning the cutting edge with the circuit board.

NOTE: Use only for cutting copper wire.

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

Micro Nippers STANDARD CUTTING SURFACE YN-11/18

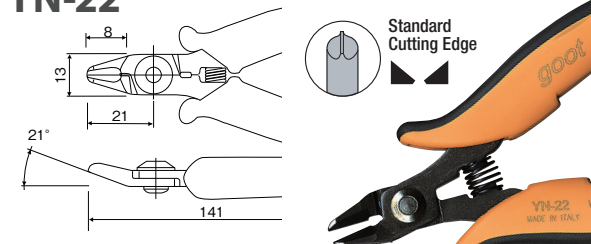


●Maximum cutting diameter of 1.6 and 2.0 mm. ●The YN-11 has a safety clip for holding wire scraps securely after cutting.

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

Heavy Duty Nippers STANDARD CUT YN-22



Unit :mm

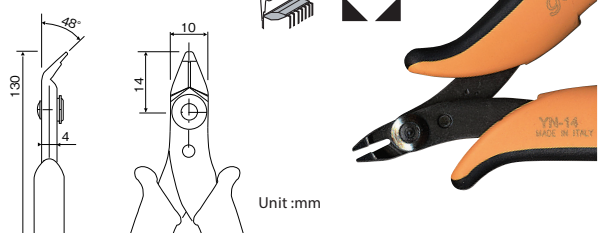
●Strong tool with a maximum cutting diameter of 2.0 mm. ●The 21° blade angle allows easy cutting with slight force.

NOTE: Use only for cutting copper wire.

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

HAND TOOLS PRECISION NIPPERS

For integrated circuit pins. PRECISION NIPPERS YN-14

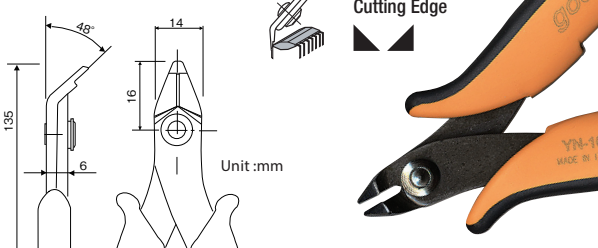


●Angled at 48° for the cutting of integrated circuit pins.
●Held in the reverse manner to standard nippers, the **YN-14** cuts the flat IC leads that face away from the user.

NOTE: Use only for cutting copper wire.

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

For integrated circuit pins. PRECISION NIPPERS YN-16

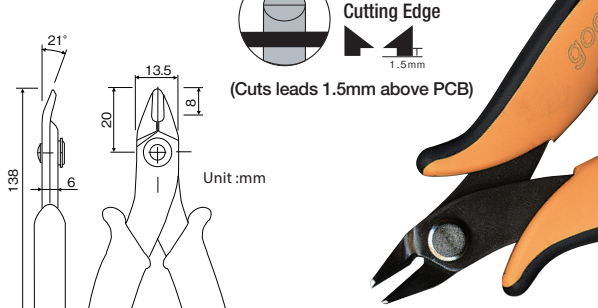


●Angled at 48° for the cutting of integrated circuit pins.
●Held in the reverse manner to standard nippers, the **YN-16** cuts the flat IC leads that face away from the user.

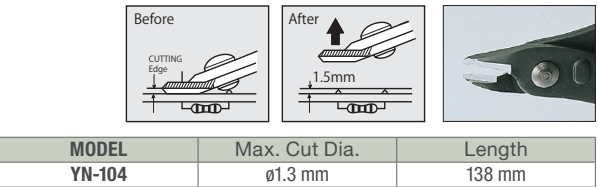
NOTE: Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Length
YN-16	ø1.0 mm	135 mm

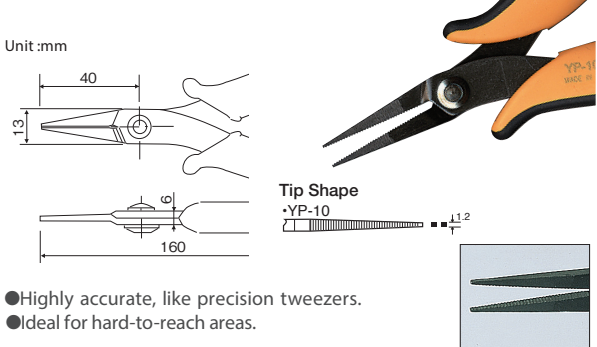
Cuts 1.5 mm from the surface. (Horizontal Type) 1.5 mm PLATFORM NIPPERS YN-104



●Cuts wires 1.5 mm from the PCB surface.
NOTE: Use only for cutting copper wire.



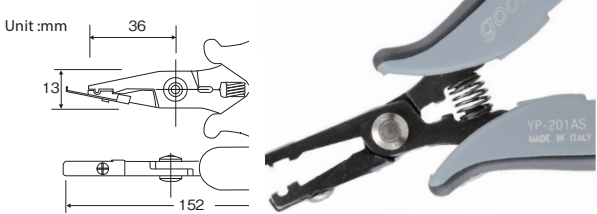
Highly accurate with serrated long nose. PRECISION PLIERS YP-10



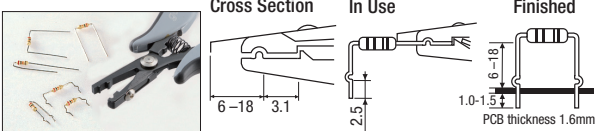
●Highly accurate, like precision tweezers.
●Ideal for hard-to-reach areas.

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

Crimps and cuts. CRIMPING PLIERS YP-201AS

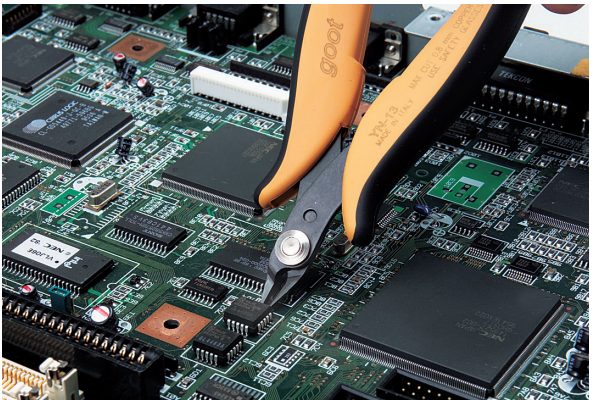


●Crimps and cuts the component wire in one operation. ●Adjustable from 6 to 18 mm.



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

MODEL	Max. Cut Dia.	Length
YP-201AS	152 mm	ø0.8 mm



HAND TOOLS WIRE STRIPPERS

SOLDERING SYSTEM

SOLDERING IRONS

AUTOMATIC SOLDER FEEDER

SOLDERING TIP THERMOMETER

SOLDER POTS

SURFACE-MOUNT / SMT PRODUCTS

DESOLDERING PRODUCTS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

2 in 1! Wire stripper and cutter.

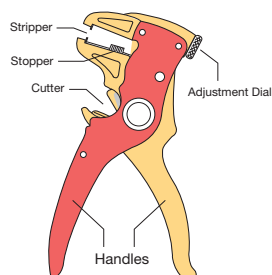
WIRE STRIPPER

YS-1



- Adjustable stopper for consistent lengths from 2 to 20 mm.
- 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	0.2–5.5 mm ²	170 mm

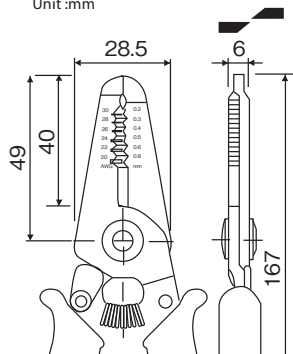
Three functions: Cutters, Wire stripper, Pliers.

PRECISION WIRE STRIPPER

YS-2/3



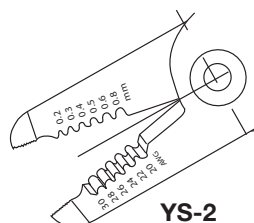
Unit :mm



- 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, 0.8 mm	167 mm
YS-3	ø0.8, 1.0, 1.3, 1.6, 2.0, 2.6 mm	

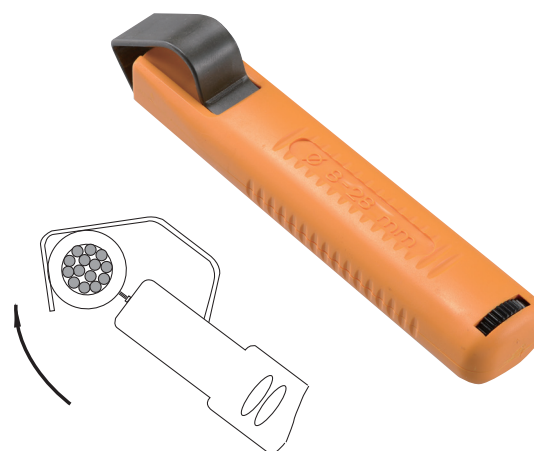


Adjustable cutting depth to match the thickness of the cable jacket.

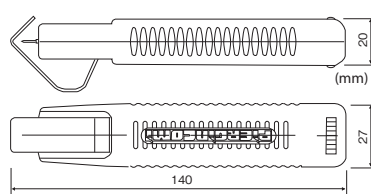
CABLE STRIPPER



YS-100/101

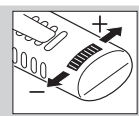


- Cuts cable jacket simply and accurately.
- Adjustable cutting depth to match the thickness of the cable jacket.
- Spare blades stored in the handle.
- Safe design with covered blade.
- The blade moves automatically in the cutting direction.



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.
- 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	ø4–16 mm	140 mm
YS-101	ø8–28 mm	

REPLACEMENT PARTS / OPTIONS

- YS-100 /101 Blade
- YS-100HA

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SOLDERING IRONS, EQUIPMENT & ACCESSORIES

TAIYO ELECTRIC IND.CO.,LTD.

2-16- 8 Yamate Fukuyama Hiroshima 720-0092 Japan

International Marketing

TEL: (81)84-951-1512 FAX: (81)84-951-9531

Website: www.goot.co.jp/en/ E-mail: info.intl@goot.co.jp



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This will ensure operator safety and maximum product life.
- Temperatures stated in this catalog are based on our data. There might be differences due to working environment.
- Models and specifications are subject to change without prior notice.

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