



2018-2019

FD-110

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

Vol.50

**SOLDERING SYSTEM** 

**SMT PRODUCTS** 

**SOLDERING STATIONS** 

**SOLDERING IRONS** 

**SOLDER POTS** 

**DESOLDERING PRODUCTS** 

**SOLDERS** 

**SOLDERING ACCESSORIES** 

**TESTERS** 

**HEATED TOOLS** 

**HANDTOOLS** 





















Management System ISO 9001:2008

www.tuv.com ID 9105020933

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Meets RoHS directive.	П	A product specifically designed to hand lead-free solder applications.	le	A product made of anti-mag stainless steel.	jnetic
RoHS 6 substance only		REE		Stalliness steet.	
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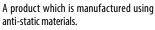
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ANTI STATIC





**HOT STICKS** 

HOT SLICER

HOT KNIVES

MODEL	Valtore	Dawer Consumption	OF	Avacatia	Australia
MODEL	Voltage	Power Consumption	CE	Argentin	Australia
CS-21	110 V, 220 V, 240 V	20 W			
CS-21/22	220 V	18-19 W	<u> </u>		
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	<b>V</b>		
CXR-31	110 V, 120 V, 220-230 V	22 W			
CXR-31/22	220-230 V	18-19 W	<b>✓</b>		
CXR-41	110 V, 120 V, 220-230 V, 240 V	30 W			
CXR-41/22	220-230 V	20-21 W	<b>✓</b>		
CXR-41/24	230-240 V	20-21 W	V		
OVD 00	110-120 V, 220-240 V	28 W			
CXR-60	220-240 V	24-28 W	· ·		
OVD 00	110-120 V, 220-240 V	32 W			
CXR-80	220-240 V	30-34 W	· ·		
	110-120 V, 220-240 V	38 W	•		
CXR-100	220-240 V	37-42 W	· ·		
HP-150	110 V, 120 V, 220 V, 240 V	110 W	<b>▼</b>		
HP-200	110 V, 120 V, 220 V, 240 V	150 W			
HP-300	110 V, 120 V, 220 V, 240 V	200 W			
117-300	110 V, 120 V, 220 V, 240 V	200 W			
KS-20R	· · · ·				
VO 000 /00	240 V	19 W	4		
KS-20R/22	220-230 V	23-29 W	<u> </u>	<b>✓</b>	
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	· ·	<b>✓</b>	
KS-30R/24	230-240 V	27-30 W	V		
KS-40R	110 V, 120 V, 220 V, 240 V	35 W			
KS-40R/22	220-230 V	34-42 W	<b>✓</b>	<b>✓</b>	
KS-40R/24	230-240 V	31-38 W	<b>✓</b>		
KS-60R	110 V	37 W			
K3-00K	120 V,220 V,240 V	45 W			
KS-60R/22	220-230 V	45-54 W	V	<b>V</b>	
KS-60R/24	230-240 V	42-49 W	V		
	110 V	37 W			
KS-80R	120 V,220 V,240 V	45 W			
KS-80R/22	220-230 V	45-54 W	<b>V</b>	<i>'</i>	
KS-80R/24	230-240 V	42-49 W			
	110 V	37 W	<u> </u>		
KS-100R	120 V,220 V,240 V	45 W			
KS-100R/22	220-230 V	45-54 W			
		45-54 W		<i>'</i>	
KS-100R/24	230-240 V		•		
KX-20R	110 V,120 V, 220 V	23 W			
1/V 007 /00	240 V	19 W			
KX-20R/22	220-230 V	23-29 W	<u> </u>	<b>✓</b>	
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	<b>✓</b>	<i>'</i>	
KX-30R/24	230-240 V	27-30 W	<b>✓</b>		
KX-40R	110 V, 120 V, 220 V, 240 V	35 W			
KX-40R/22	220-230 V	34-42 W	<b>/</b>	<b>✓</b>	
KX-40R/24	230-240 V	31-38 W	<b>✓</b>		
KY 60D	110 V	37 W			
KX-60R	120 V,220 V,240 V	45 W			
KX-60R/22	220-230 V	45-54 W	<i>'</i>	· ·	
KX-60R/24	230-240 V	42-49 W	<i>V</i>		
	110 V	37 W			
KX-80R	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			
NA-00N/24	110 V	42-49 VV 37 W	<u> </u>		
KX-100R		45 W			
KX-100R/22	120 V,220 V,240 V		. 4		
	220-230 V	45-54 W	<b>✓</b>	<b>✓</b>	

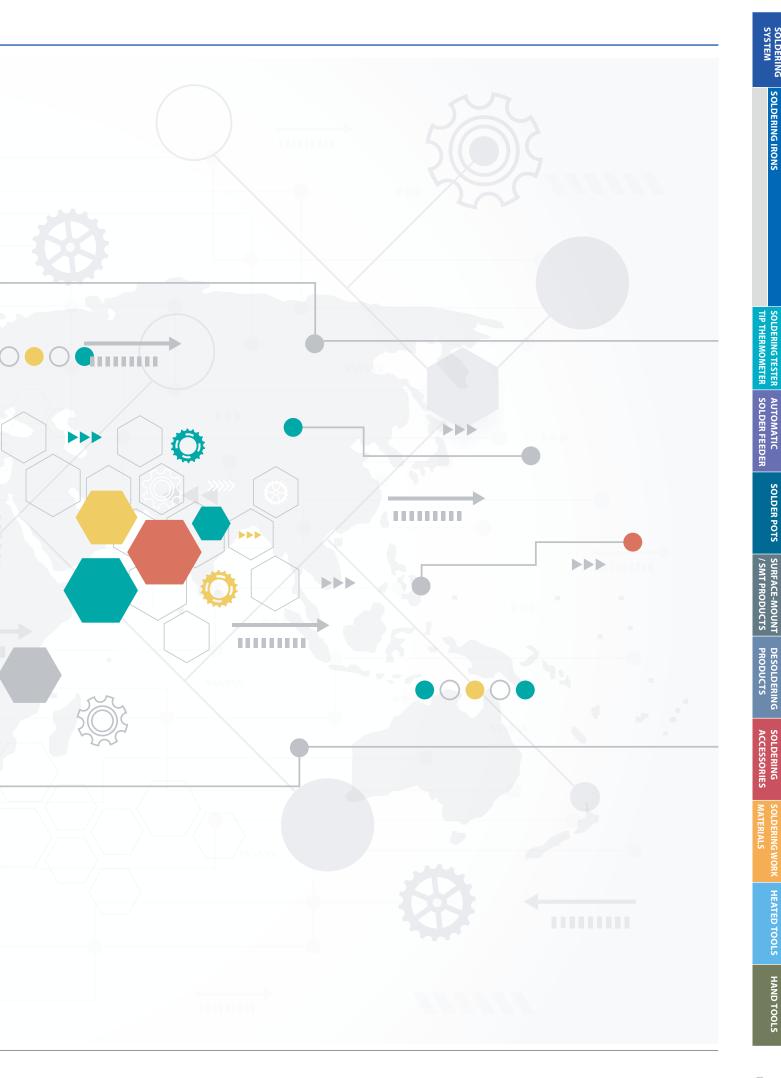
MODEL	Voltage	Power Consumption	CE	Argentin	Australia
KX-100R/24	230-240 V	42-49 W	<b>✓</b>		
	110 V	50 W			
KYP-60	120 V, 220 V, 240 V	60 W			
KYP-60/22	220-230 V	56-58 W	<b>V</b>	· ·	
KYP-60/24	230-240 V	59-61 W		·	
00/21	110 V	50 W			
KYP-70	120 V, 220 V, 240 V	60 W			
KYP-70/22	220-230 V	56-58 W	<i>V</i>	V	
KYP-70/24	230-240 V	59-61 W		<u> </u>	
K1F-70/24	6 V	6 W			
MI-6-6 V	5-6 V D.C.	4-6 W			
	12 V	6 W	<i>V</i>		
MI-6-12 V			<u> </u>		
202.040	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	<b>✓</b>		
POT-21C/24	230-240 V	120-130 W	<b>✓</b>		
POT-23C	110 V, 120 V, 220 V, 240 V	130 W			
POT-23C/22	220-230 V	130-142 W	<b>✓</b>		
POT-23C/24	230-240 V	120-130 W	<i>'</i>		
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	<b>✓</b>		
POT-100C	110 V, 120 V, 220 V, 240 V	440 W			
POT-100C/22	220-230 V	390-520 W	<b>✓</b>		
POT-100C/24	230-240 V	360-480 W	<b>✓</b>		
POT-200C	110 V, 120 V, 220 V, 240 V	650 W			
POT-200C/22		690-730 W	<b>✓</b>		
POT-200C/24		670-720 W	<i>V</i>		
	110-120 V	900 W			
POT-103C	220-240 V	900 W	<i>V</i>		
	110-120 V	1400 W	<u>_</u>		
POT-203C	220-240 V	1400 W	<i>V</i>		
	110-120 V	470-610 W	<u> </u>		
POT-50C	220-240 V	370-430 W			
PO1-50C	220-240 V				
		370-430 W	· · · · · · · · · · · · · · · · · · ·		
PX-201	110-120 V	70 W			
	220-240 V	70 W	· · · · · · · · · · · · · · · · · · ·	<b>✓</b>	
	110-120 V	90-130 W			
PX-335	220-240 V	85-120 W			
	220-240 V	85-120 W	<b>✓</b>		· ·
	110-120 V	90-130 W			
PX-338	220-240 V	75-110 W			
	220-240 V	75-110 W	<b>✓</b>		<b>✓</b>
	110-120 V	90-130 W			
PX-342	220-240 V	75-110 W			
	220-240 V	75-110 W	<b>✓</b>		<b>'</b>
ED 100	100-240 V	8 W			
FD-100	100-240 V	8 W	<b>V</b>		
TM-200	100-240 V		<b>✓</b>		
DV 704 10	110 V, 120 V, 220 V, 230 V, 240 V	65 W			
RX-701AS	220 V, 230 V, 240 V	65 W	<b>✓</b>		<b>✓</b> (240 V)
	110 V, 120 V, 220 V, 230 V, 240 V	65 W			
RX-711AS	220 V, 230 V, 240 V	65 W	<i>V</i>		<b>✓</b> (240 V)
RX-802AS /	110 V, 120 V, 220 V, 230 V, 240 V	80 W	•		- (= .5 7)
	220 V, 230 V, 240 V	80 W	· · · · · · · · · · · · · · · · · · ·		
COLACI II			<b>V</b>		
RX-852AS	110-120 V, 220-240 V	145-170 W	<u> </u>		
	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	<b>✓</b>		

## PRODUCTS POWER CONSUMPTION AND SAFETY STANDARD

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

## **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	22W
CXR-41	220 V AC 60 Hz	30W
HOT-60R	220 V AC 60 Hz	45 W
KX-40R/22	220 V AC 60 Hz	35 W
KX-60R/22	220 V AC 60 Hz	45 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-852AS	220 V AC 60 Hz	145 W
SVS-500AS	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



## **SOLDERING SYSTEM**



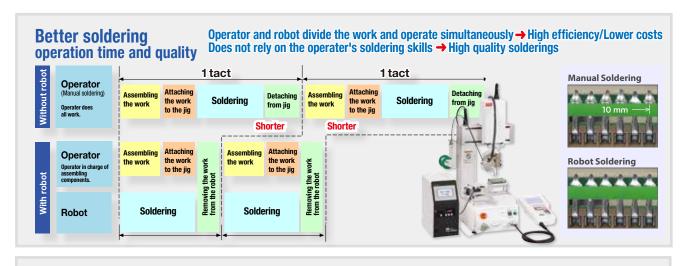




\*The robot main body is not included. For the robot, please refer to p.10

#### **Desktop Soldering System FA-1000**





## 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.



#### **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.

#### **■**Control Unit

#### **FA-1000**

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

- · Easy-to-operate multilanguage touch panel
- Memory card function (option)
  • Tip temperature output to
- monitor (option)



#### **■V-Groove Unit**

#### **FA-1000 VU**

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

Model	Solder Dia.
FA-1000V-05	Φ 0.5mm
FA-1000V-06	Ф 0.6mm
FA-1000V-08	Φ 0.8mm
FA-1000V-10	Ф 1.0mm

Model	Solder Dia.	
FA-1000V-12	Φ 1.2mm	
FA-1000V-16	Ф 1.6mm	

Please ask us about 0.3 or 0.4.

#### **■Clog-Detection Unit**

#### **FA-1000FDB**

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

Model	Solder Dia.	
FA-1000FDB-05	Φ 0.5mm	
FA-1000FDB-06	Ф 0.6mm	
FA-1000FDB-10	Φ 0.8mm Φ 1.0mm	
FA-1000FDB-16	Φ 1.2mm Φ 1.6mm	



## NEW **■**Solder Reel Holder **FA-1000RH1**

Solder-Finish Sensor

\*Solder not included

■Brush Tip Cleaner

Removes scorching of flux on

the tip that cannot be removed by Air-blow cleaner.

**FA-1000BC** 

#### **■**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



#### ■N<sub>2</sub> Nozzle **FA-1000PH** N2 soldering is available by just attaching the applicable tip.

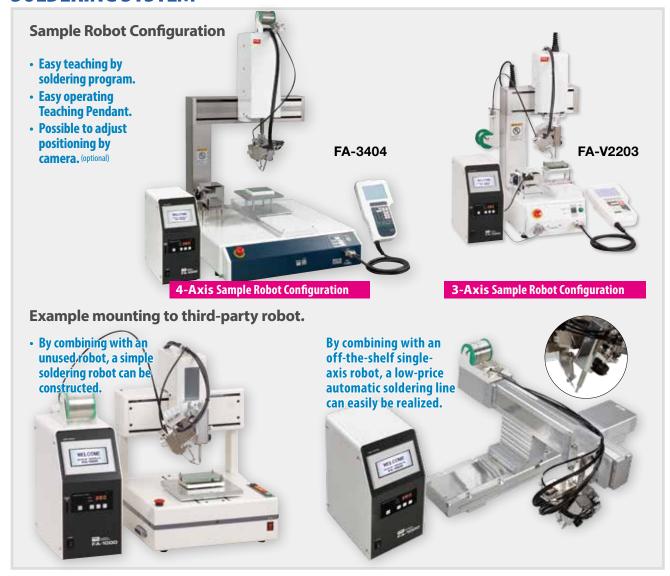
FA-1000PH-C 3PC 2.4D 3.2D 3.2DV -

FA-100

	13					
odel		Com	patible	Tips		1//
0PH-A	1.6SD	3.2SD	_	-	_	
0PH-B	2PC	4C	1.6D	0.8 W	1.2W	

We have cheape N<sub>2</sub> generator. Please refer to p25

## **SOLDERING SYSTEM**



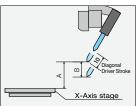
#### **SPECIFICATIONS**

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

= Specifications (Control offic) Solder receder offic)				
	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		
Control Unit FA-1000	Weight	8.6 kg		
Control Offict A-1000	Number of Soldering Programs	256 programs		
	Tip Temperature Range	50-450°C		
	Tip Temperature Preset	6 settings		
	Input Air Pressure	0.4 -0.5 MPa		
Solder Feeder Unit FA-1000FD	Solder Diameter	ø0.5 ø0.6 (ø0.65) ø0.8 ø1.0 ø1.2 ø1.6 mm		
	Length	145 mm		
Soldering Unit FA-1000SD	Weight	Approx. 950 g (Solder Feeder Unit included)		
	Heater Voltage/ Power	24 V/ 150 W		

#### ■ Specifications (Robot)

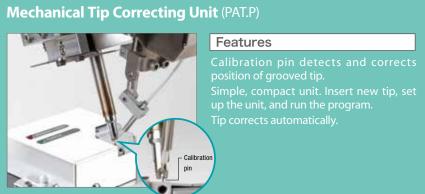
Model		FA-V2203	FA-V2303	FA-3204	FA-3304	FA-3404
Axis Type		3-axis		4-axis		
Shape		Cantilever type	Gate type	Cantilever type	Gate type	Cantilever type
Operating	X, Y -axis	200 × 200 mm	300 × 320 mm	200 × 200 mm	300 × 320 mm	400 × 400 mm
Operating	Z -axis *Height B	50 mm	100 mm	50 mm	100 mm	150 mm
Range	R -axis	-	_	(-)90-(+)90°		
Hight from tip to X Axis stage *Height A		88 mm	183 mm	88 mm	183 mm	183 mm
Maximum	X,Y -axis	500 r	nm/ s	700 mm/ s	900 r	nm/ s
	Z -axis	200 r	nm/ s	250 mm/ s	400 r	nm/ s
Speed	R -axis	<del>-</del>		600°/s	900°/s	
Repeatability X, Y, Z -axis R -axis		±0.01 mm		±0.01 mm		
		_		±0.008°		
Teaching Method		Teaching pendant or PC				
Program Capacity		999				
Maximum Soldering Points		32,000				



Specifications may change without notice.







#### REPLACEMENT PARTS / OPTIONS

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

FA-N Robot Mounting Block

FA-1000J4BL

**■**Teaching Pendant

4-Axis Robot Teaching Pendant

FA-JR3000-TP

3-Axis Robot Teaching Pendant FA-JRV-TP

**FA-V** Robot Mounting Block

FA-1000J3BL

**■PC Software** 

PC Software for Robot (Common to 4-Axis and 3-Axis.)

FA-JR3000-PC

■Air Blow Cleaner Filters/ Brush for Brush Tip Cleaner

Air Blow Filter (10 pcs. included)

Brush Cleaner (2 pcs. included)

FA-1000CLF FA-1000BU

#### ■Solder-Nozzle Tube

ø0.5mm (5 pcs. included)

FA-1000NW-05

ø**0.6 mm** (5 pcs. included)

FA-1000NW-06

ø**1.0 mm** (5 pcs. included)

FA-1000NH-10

ø1.6 mm (5 pcs. included) FA-1000N-16

For replacement tips, refer to p. 30

ø**0.6 mm** (5 pcs. included)

ø1.0 mm (5 pcs. included)

ø**1.2 mm** (5 pcs. included)

FA-1000N-06

FA-1000N-10

FA-1000N-12



## **SOLDERING IRONS**

## **SOLDERING STATION**

LEAD-FREE TEMPERATURE-CONTROLLED

500 W Ultra high power soldering station RX-892AS p.14

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

Pictured tips not included.

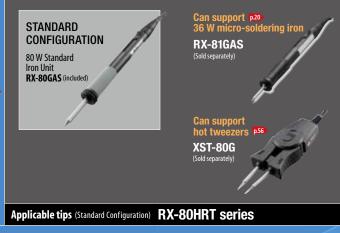
Applicable tips RX-89HRT series















TM-100



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-110/100

n 46

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

Solder feed method for reducing solder cloas.



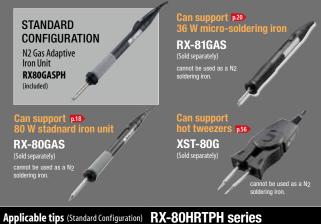




Solder or desolder small parts in small space









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





**Soldering Tweezers Stand** 



N2 generator p.25



Maintains a stable output pressure(0.2Mpa).

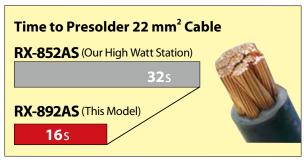
Two-tiered setting with RX-802ASPH achieves efficient work in smaller space.

## **SOLDERING IRONS** [LEAD-FREE **TEMPERATURE-CONTROLLED STATIONS**]



# **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!



#### **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.

#### **Multi-Voltage**

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

#### **Revolutionary Functions**

Advanced intelligent features in standard installation.

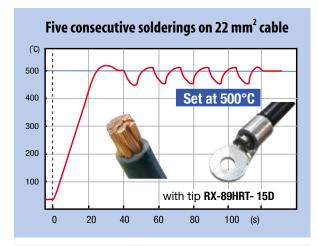


#### **INCLUDED**



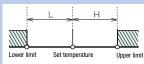
#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

#### **TIP-TEMPERATURE RECOVERY FEATURES**



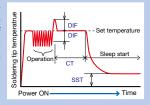
#### **HIGH/LOW TEMPERATURE ALARM**

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)

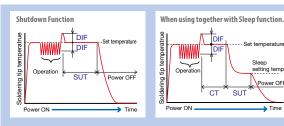
MODE: Sleep function ON/OFF CT: Sleep start time **SST**: Sleep set temperature

**DIF**: Sleep sensitivity

Each parameter can be set.

Power OFF

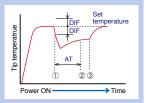
#### SHUTDOWN FUNCTION



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
- (3) Operator takes the tip off the component.



#### **KEY LOCK** (PAT.)

Lock with password. No tools or card necessary.

#### **CALIBRATION**

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	630-560 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)
Accessories	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
Iron Unit	500 W Super High-Power Iron Unit
Voltage / Consumption	40 V DC / 500 W
Ground Resistance	Less than 2 $\Omega$
Cord Length	1.8 m
Length	232 mm (with <b>RX-89HRT-15D</b> )
Weight	120 g (with <b>RX-89HRT-15D</b> )

\*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**



## **SOLDERING IRONS** [LEAD-FREE **TEMPERATURE-CONTROLLED STATIONS**]



#### **Excellent Heat Recovery (PAT.)**



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

#### **Fastest in Its Class**

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

#### **Light and Compact Handpiece**

Same size as the **RX-80GAS**.

#### **Tip Replacement without Tools** (PAT.)

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

#### **Thick Tip Coating for Lead-free Soldering**

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

#### **RX-80HRT Tips also Available**

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



#### **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.

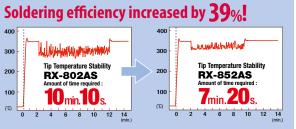


#### **INCLUDED**



#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

#### **TIP-TEMPERATURE RECOVERY FEATURES**

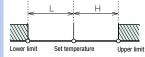


A generous amount of lead-free solder on a land of 20 mm dia. dissolving 35 points in

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.

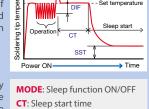


#### **INTELLIGENT SLEEP FUNCTION (PAT.)**

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 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)

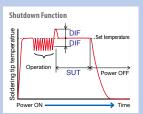


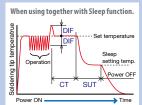
**SST**: Sleep set temperature

Each parameter can be set.

**DIF**: Sleep sensitivity

#### SHUTDOWN FUNCTION

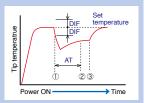




When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

#### **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
- (3) Operator takes the tip off the component.



#### **KEY LOCK**

**CALIBRATION** (PAT.) Lock with password. No tools or card necessary.

(PAT.) The calibration function digitally offsets the difference cord, and a shorter distance between the tip temperature from the handpiece to the tip. and the temperature shown by a tip thermometer being used.

#### **NEW ERGONOMIC GRIP** (PAT.)

Prevents fatigue. Flexible

#### **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)
	150 W High-heat-capacity Iron Unit <b>RX-85GAS</b> (included)
Applicable Iron Unite	80 W Standard Iron Unit <b>RX-80GAS</b> (sold separately)
Applicable Iron Units	Micro-Iron Unit RX-81GAS (sold separately)
	Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit (RX-85GAS)
Accessories	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	Less than 2 $\Omega$
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Cord Length	1.5 m
Length	174 mm(with <b>RX-85HRT-5D</b> )
Weight	39 g (with <b>RX-85HRT-5D</b> )

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. 56

#### **REPLACEMENT PARTS / OPTIONS**



#### Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB-GR: green RX-80RB: gray 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**]



#### **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

#### **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 leadfree 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.



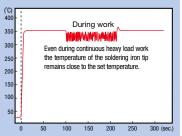
#### INCLUDED



#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

#### **TIP-TEMPERATURE RECOVERY FEATURES**

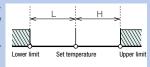
The tip temperature (C) remains close to set temperature even during heavy load work.



#### **HIGH/LOW TEMPERATURE ALARM**

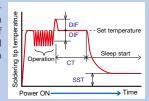
An alarm sounds when the temperature goes above or below temperature settings.

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

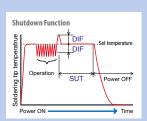
CT: Sleep start time

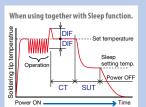
**SST**: Sleep set temperature

**DIF**: Sleep sensitivity

Each parameter can be set.

#### SHUTDOWN FUNCTION





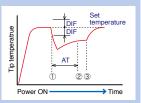
When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

#### **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

(3) Operator takes the tip off the component.



#### **KEY LOCK** (PAT.)

or card necessary.

#### **CALIBRATION** (PAT.)

Lock with password. No tools The calibration function

digitally offsets the difference cord, and a shorter distance between the tip temperature from the handpiece to the tip. and the temperature shown by a tip thermometer being used.

Prevents fatigue. Flexible

**NEW ERGONOMIC GRIP** (PAT.)

#### **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)
	80 W Standard Iron Unit RX-80GAS (included)
Applicable Iron Units	Micro-Iron Unit RX-81GAS (sold separately)
	Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit (RX-80GAS)
Accessories	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	Less than 2 Ω
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Cord Length	1.2 m
Length	158 mm (with <b>RX-80HRT-BM</b> )
Weight	28 g (with <b>RX-80HRT-BM</b> )

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. 56

#### **REPLACEMENT PARTS / OPTIONS**



#### 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

Solder or desolder small parts in small spaces.







VERY THIN GRIP
Improved handling and visibility.

**FASTEST IN ITS CLASS** 4 seconds to set temperature

Tip not included.

**SOLDERING IRONS** [LEAD-FREE **TEMPERATURE-CONTROLLED STATIONS**]

**CALIBRATION SERVICES**We provide calibration and/or

certification for a fee.

## **Ergonomic Grip Design**

New grip is designed for and adapted to Ø2.9 mm superfine

#### **Fastest in Its Class**

Reaches set temperature within 4 seconds after turning power on.

#### **Wide Variety of Replacement Tips**

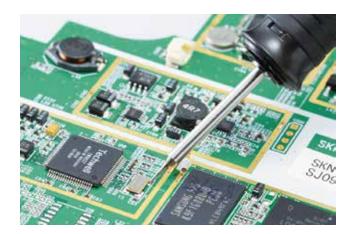
80 W RX-80HRT Tips also available instead of RX-81HRT tip.

#### **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.



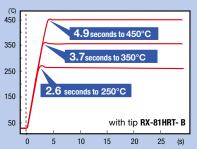
#### **INCLUDED**



#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

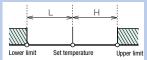
#### **HEATING**

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.



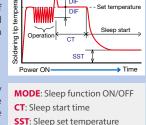
#### **INTELLIGENT SLEEP FUNCTION (PAT.)**

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.)**

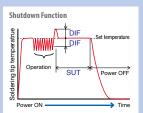
Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

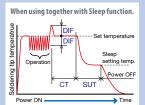


**DIF**: Sleep sensitivity

Each parameter can be set.

#### SHUTDOWN FUNCTION

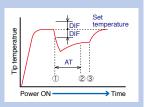




When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

#### **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
- (3) Operator takes the tip off the com-



#### **KEY LOCK**

or card necessary.

(PAT.)

Lock with password. No tools

(PAT.)

digitally offsets the difference cord, and a shorter distance between the tip temperature  $\,$  from the handpiece to the tip. and the temperature shown by a tip thermometer being used.

**CALIBRATION** 

#### **NEW ERGONOMIC** GRIP (PAT.)

The calibration function Prevents fatigue. Flexible

#### **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)
	Micro-Iron Unit RX-81GAS (included)
Applicable Iron Units	80 W Iron Unit <b>RX-80GAS</b> (sold separately)
	Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit (RX-81GAS)
ACCESSOLIES	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	Less than 2 $\Omega$
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Cord Length	1.2 m
Length	149 mm (with <b>RX-81HRT-SB</b> )
Weight	26 g (with <b>RX-81HRT-SB</b> )

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. 56

#### **REPLACEMENT PARTS / OPTIONS**



#### Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB-GR: green RX-80RB: gray 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

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, shutdown and Key lock) based on the **RX-802AS**.

#### Easy-to-Use Handpiece (PAT.)

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

#### **Wide Variety of Tips**

More than 40 tips are available.

#### **HOW TO CHANGE TIPS**

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

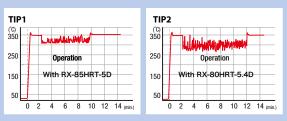


#### INCLUDED



#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

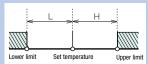
#### **TIP-TEMPERATURE RECOVERY FEATURES**



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

#### **HIGH/LOW TEMPERATURE ALARM**

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



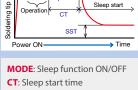
#### **INTELLIGENT SLEEP FUNCTION (PAT.)**

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



#### **SLEEP FUNCTION RELEASE (PAT.)**

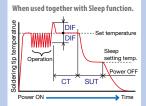
Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)



**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 CALIBRATION** (PAT.)

Lock with password. No tools or card necessary. and the temperature shown by a tip thermometer being used.

**GRIP** (PAT.) The calibration function Prevents fatigue. Flexible digitally offsets the difference cord, and a shorter distance between the tip temperature  $\;\;$  from the handpiece to the tip.

**NEW ERGONOMIC** 

#### **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)
	150 W High-heat-capacity Iron Unit *RX-85GAS (included)
Applicable Iron Units	80 W Standard Iron Unit RX-80GAS (included)
Applicable from offics	Micro-Iron Unit RX-81GAS (sold separately)
	Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit (RX-85GAS, RX-80GAS)
	Soldering Iron Stand (ST-22) $\times$ 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	Less th	an 2 $\Omega$		
Leak Voltage	Less than 2 mV			
Heater	Nichrome heater			
Cord Length	1.2 m	1.5 m		
Length	158 mm(with <b>RX-80HRT-B</b> )	174 mm(with <b>RX-85HRT-5D</b> )		
Weight	ght 28 g (with <b>RX-80HRT-B</b> ) 39 g (with <b>RX-85HR</b>			

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. 56

#### **REPLACEMENT PARTS / OPTIONS**



#### Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

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

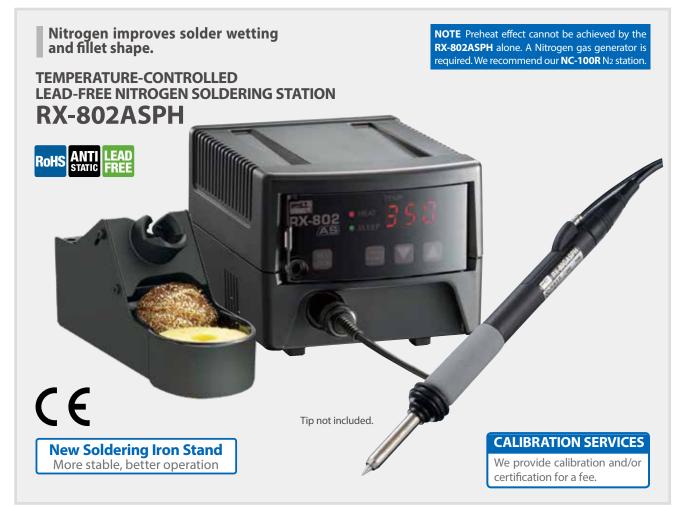






with RX-80RB with RX-80P

## **SOLDERING IRONS** [LEAD-FREE **TEMPERATURE-CONTROLLED STATIONS**]



#### 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.



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



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

#### INCLUDED



#### **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)
	N <sub>2</sub> Gas Adaptive Iron Unit RX-80GASPH (included)
Applicable Iron Units	80 W Standard Iron Unit *RX-80GAS (sold separately)
*Non-N2, also supported.	Micro-Iron Unit *RX-81GAS (sold separately)
	Soldering Tweezers Unit *XST-80G (sold separately)
Accessories	Iron Unit (RX-80GASPH)
Accessories	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 a 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 <sub>2</sub> Gas Adaptive Iron Unit
Voltage/Consumption	24 V AC / 72 W
Ground Resistance	Less than 2 $\Omega$
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Gas Supply Pressure	0.2M Pa (2 kgf/ cm <sup>2</sup> )
Cord Length	1.2 m
Length	158 mm (with <b>RX-80HRT-PHB</b> )
Weight	33 g (with <b>RX-80HRT-PHB</b> )

#### 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. 56

#### **REPLACEMENT PARTS / OPTIONS**



# A compact N2 station combining N2 generator and controller.

### **N2 STATION NC-100R**

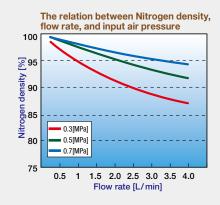


The special separation membrane separates the nitrogen from the compressed air produced by a compressor.

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

#### **NITROGEN GENERATION DENSITY**

(According to in-house measuring method)



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

An example of measured values

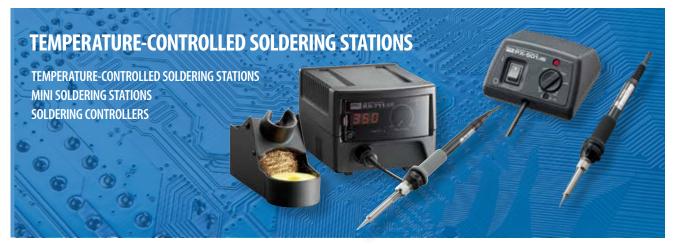
#### **SPECIFICATIONS**

Model	NC-100R
Input pressure	0.3-0.7 MPa
Input temperature	5-50°C
Nitrogen generation density	Maximum 99.5% (0.7 MPa, 0.5L / min)
Recommended Nitrogen generation flow rate	1.0L / min
Flow meter	0.5-4.0L / min
Dimensions	118 (W) $\times$ 112 (H) $\times$ 185 (D) mm (not including protruding parts)
Weight	2kg
Required Hose Dimension	Input: Outer diameter ø6 mm Output : Outer diameter ø4 mm

#### **ESET-UP EXAMPLE** RX-802ASPH + NC-100R



## **SOLDERING IRONS [TEMPERATURE-CONTROLLED STATIONS]**



#### 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





**Comfortable Handpiece** 

**Protective Cover (PAT.)** 

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

**New Soldering Iron Stand** More stable, better operation

#### INCLUDED

RX-711



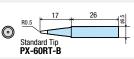
#### REPLACEMENT PARTS / OPTIONS

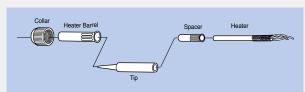
Heater	Spacer
RX-72H	RX-72SS
Heater Barrel	Iron Unit
RX-72HP	RX-72GAS
Collar	
TO-77NUT	

#### **REPLACEMENT TIPS**

#### **Wide Variety of Tips**

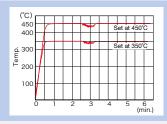
A wide variety of replacement tips for all types of work. Refer to page p. 30 for further details.





#### TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively on 5 mm-dia 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				
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	Less than 2 Ω
Leak Voltage	Less than 2 mV
Heater	Ceramic heater
Cord Length	1.2 m
Length	197 mm (with <b>PX-60RT-B</b> )
Weight	44 g (with <b>PX-60RT-B</b> )

<sup>\*</sup>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





## Quick Start (PAT.)

Reaches set temperature fast with the Quick Start circuit.

#### **Temperature Calibration**

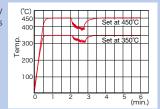
Accurate calibration.

# **Leakage Current / Insulation-Resistance Measuring Terminal**

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

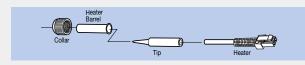
#### **TIP-TEMPERATURE RECOVERY FEATURES**

Solder melted consecutively on 5 mm-dia 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.67



## Accurate temperature control, high-performance compact model.

# SOLDERING CONTROLLERS PX-601AS/PX-601







#### **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

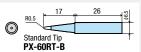
Voltage / Consumption	110 V, 220-240 V AC /80 W
Ground Resistance	Less than 2 Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2 m
Length	195 mm (with <b>PX-60RT-B</b> )
Weight	41 g (with <b>PX-60RT-B</b> )

<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

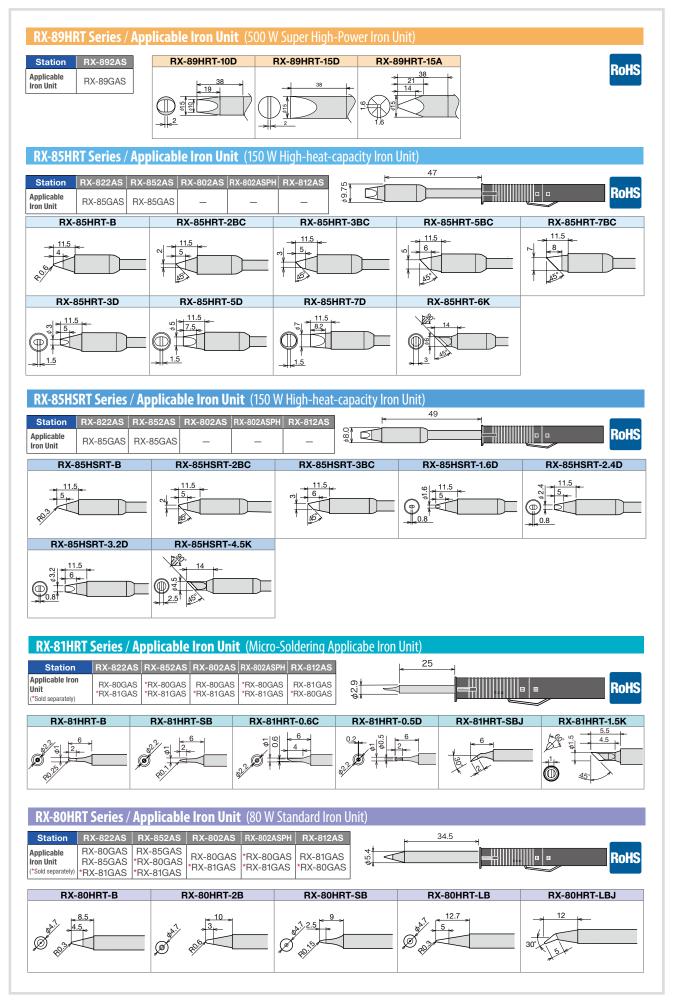


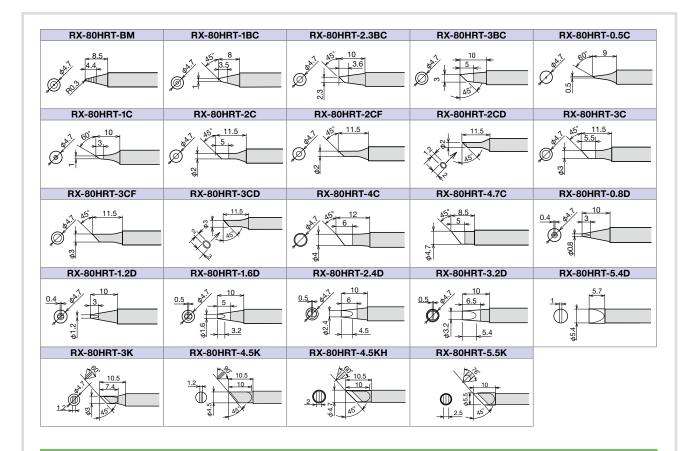
#### **Wide Variety of Tips**

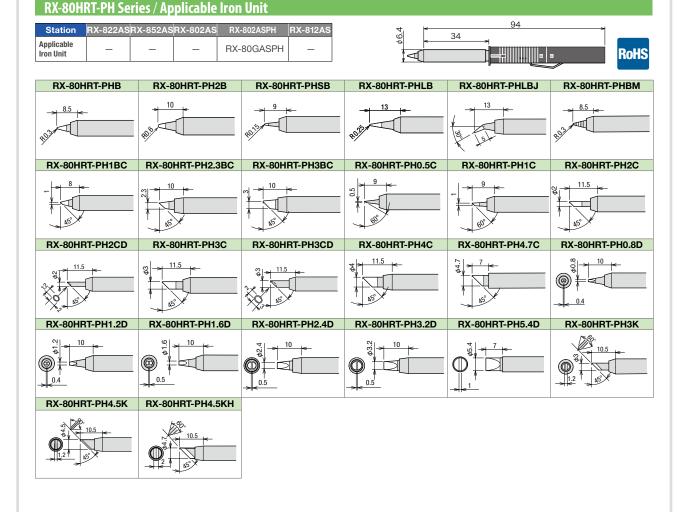
A wide variety of replacement tips for all types of work. Refer to page p.30 for further details.



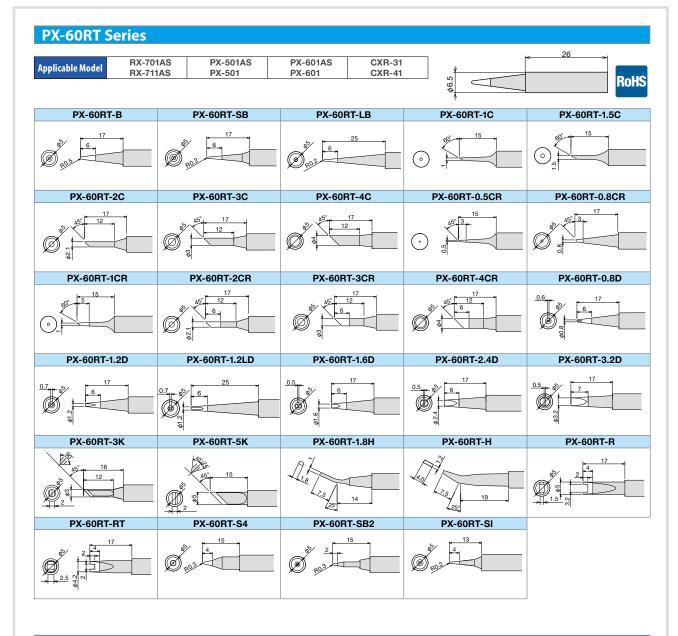
## **SOLDERING IRONS [REPLACEMENT TIPS]**







## **SOLDERING IRONS [REPLACEMENT TIPS]** -



#### **FA Series Applicable Model** FA-1000 series

FA-10HRT-1.6D	FA-10HRT-2.4D	FA-10HRT-3.2D	FA-10HRT-1.6SD	FA-10HRT-3.2SD	FA-10HRT-3.2DV
910	00 15 15 15 15 15 15 15 15 15 15 15 15 15	15	910	27 15 15	15
FA-10HRT-4C	FA-10HRT-2PC	FA-10HRT-3PC		FA-10HRT-0.8W	
\$15	15	0 0 15	80	15 8 10 10 10 10 10 10 10 10 10 10 10 10 10	
	FA-10HRT-1.2W				
2	2 15 15 15 15 15 15 15 15 15 15 15 15 15	04		60	

RoHS

## **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.

O Doot	O Good	$\wedge \cap V$	W NIO
U Dest	Good		XIVU

		LEAD	O CON	IPONE	NTS	SI	MD		C	THER	S		
Spec	÷	Condenser, Resistor, Small components	DIP, SIP, ICs	Lead wire	Connector, Switch	FlatiC	Condenser, Resistor, Small components	Large terminal	Small components, Fine lead wire	Narrow area	Small part	Large part	NOTE
B <sub>Type</sub> (Conic)	В		0	0	0	Δ		0		Δ	0	Δ	General purpose
(collic)	LB longer slim	0	0	0	0	0	0	×	0	×	0	×	General purpose, small area
	BC with cut face	0	0	0	0	0	Δ	0	Δ	Δ	0	Δ	General purpose, moderately large area
	SB fine tip	0	0	0	0	0	0	×	0	×	0	×	General purpose, small heat load
Туре	1C face approx. 1 mm		Δ	Δ	0	0	0	×	0	0	0	×	Small heat load
(with Slant column-cut)	face approx. 2	0	Δ	0	0	Δ		Δ	Δ	0	Δ	Δ	Moderately large area or harness
	3C face approx. 3 mm		×	0	0	×	×	0	×	0	×	0	Large area or harness
	4C face approx. 4 mm	×	×		×	×	×	0	×	0	×	0	Large area or large heat load
	5C face approx. 5 mm	×	×		×	×	×	0	×	0	×	0	Large area or large heat load
<b>D</b> туре	0.8D tip line width approx. 0.8 mm	0	0	0	0	0	0	×	0	Δ	0	×	Small area or small heat load
Flathead(-)	1.6D tip line width approx. 1.6 mm	0	0	0	0	Δ	0	×	Δ	Δ	0	×	Small area or small heat load
	2D tip line width approx. 2 mm	0		0	0	×	0	Δ	×	0	Δ	×	Small area or lead wire
	2.4D tip line width approx. 2.4 mm		×	0	0	×	0	0	×	0	×	0	Small area or lead wire
	3.2D tip line width approx. 3.2 mm		×	0	0	×	0	0	×	0	×	0	Small area or large heat load
K Type (Knife)	5K width 5 mm	×	×	×	×	0	×	×	×	0	×	Δ	For bridges

## **SOLDERING IRONS [TEMPERATURE-CONTROLLED]**



## Wide-range iron with temperature adjuster.

TEMPERATURE-CONTROLLED **SOLDERING IRON** 

PX-201

**TEMPERATURE ADJUSTABLE** 250-450°C

**ACCURATE TEMPERATURE CONTROL** Ceramic heater with internal sensor

**ERGONOMIC GRIP** Prevents fatigue

**HEAT-RESISTANT CAP** For quick storage after use



## Large tip for high thermal-storage effect.

**HIGH HEAT VOLUME** TEMP-CONTROLLED SOLDERING IRON PX-401

TEMPERATURE ADJUSTABLE 300-480°C

ACCURATE TEMPERATURE CONTROL Ceramic heater with internal sensor

**ERGONOMIC GRIP** Prevents fatigue

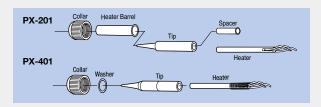
HIGH THERMAL-STORAGE EFFECT Easy soldering of large parts



#### **SPECIFICATIONS**

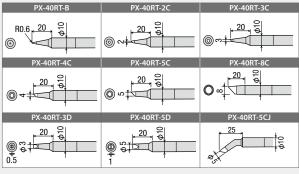
Model	PX-201	PX-401		
Voltage	110-120 V, 220-240 V AC 50/ 60 Hz			
Power Consumption	70	W		
Temperature Setting Range	250-450°C	300-480°C		
Ripple temperature	±5°C (unloaded)			
Insulation Resistance	Over 100 MΩ (500 V DC)			
Heater	Ceramic Heater			
Power Cord Length	1.5	i m		
Length	210 mm	215 mm		
Weight	ight 90 g			
Accessories	Soldering Iron Tip ( <b>PX-2RT-B</b> )	Soldering Iron Tip ( <b>PX-40RT-5C</b> )		

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



#### REPLACEMENT TIPS

#### For PX-401



#### For PX-201

Replacement tips are interchange able with **PX-3** series. Refer to next page.

## Overall View PX-40RT-B

#### REPLACEMENT PARTS / OPTIONS

<b>PX-201/401</b> Heater	PX-201 Heater Barrel
PX-20H	TQ-77HP (S)
PX-201 Spacer	PX-201 Collar
TQ-77SS	TQ-77NUT
<b>PX-201</b> CAP	PX-401 Collar
TQ-CAP	CXR-80NUT
PX-401 Washer	Recommended Stand
CXR-80WS	ST-27

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

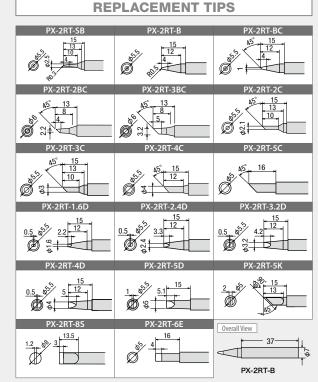
COOLER GRIP Thermal insulation & rubber grip

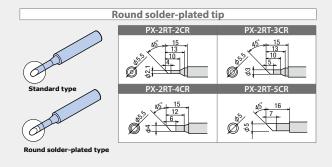
Model		PX-335	PX-338	PX-342			
Voltage		110-120 V	, 220-240 V AC	50/ 60 Hz			
Power	110-120 V model		90-130 W				
Consumption	220-240 V model	85-120 W	75-110 W				
Temperature S	ture Setting Range 350°C 380°C 42		420°C				
Ripple temper	Ripple temperature		±5°C (unloaded)				
Insulation Res	istance	Over 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)					

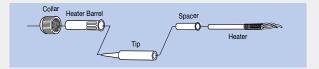
 $<sup>{}^\</sup>star\mathsf{The}$  length does not include the cord bushing. The weight does not include the cord.

#### REPLACEMENT PARTS / OPTIONS

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







## **SOLDERING IRONS [HIGH-EFFICIENCY]**





SPECIFICATIONS								
Model   CXR-31   CXR-41   CXR-60   CXR-80   CXR-100								
Voltage	110 V, 120 V 220-230 V AC							
Power Consumption	22 W	30 W	28 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				88 g			
Accessories	Soldering Iron Tip							
ACCESSUITES	PX-60	RT-SB	CXR-80	CXR-100RT-7C				

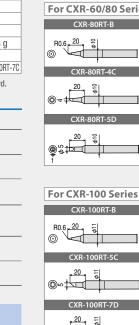
\*The length does not include the cord bushing. The weight does not include the cord.

#### REPLACEMENT PARTS / OPTIONS

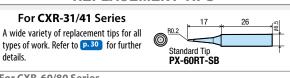
CXR-60/80/100

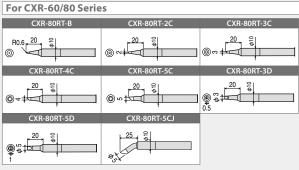
CXR-31 Heater	CXR-41 Heater
CXR-31H	CXR-41H
CXR-31/41 Spacer	CXR-31/41 Heater Barrel
CXR-31SS	PX-60HP
CXR-31/41 Collar	Heat-Resistant Cap
TQ-77NUT	TQ-CAP
CXR-60 Heater	CXR-80 Heater
CXR-60H	CXR-80H
CXR-100 Heater	CXR-60/80 Collar
CXR-100H	CXR-80NUT
CXR-100 Collar	CXR-60/80 Washer
CXR-100NUT	CXR-80 WS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

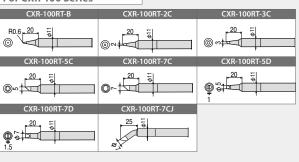
Washer













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.

167 mm

90 g

Ceramic Heater

1.5 m

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

# 38 (48)

( ) Size for 220-240 V AC model

## REPLACEMENT PARTS / OPTIONS

Heater

Length

Weight

CS-21H

CS-31 Heater CS-31H

Accessories

Power Cord Length

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

210 mm

65 g

Soldering Iron Tip (TQ-77RT-B)



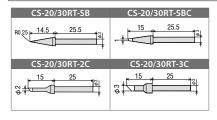
ST-27

Model	CS-21	CS-31			
Voltage	110 V, 220 V, 240 V AC 50/ 60 Hz	110 V, 120, 220 V, 240 V 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)				

**SPECIFICATIONS** 

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

#### **REPLACEMENT TIPS**



## **SOLDERING IRONS [NICHROME HEATER SOLDERING IRONS]**







REPLACEMENT TIPS					
R-48SB	R-48B	R-6B			
R0.3 75	R0.5 75	R0.8 12			
9	9	9 0			
RD-67BC	RD-68BC				
83	88 17 89 9				
<u> </u>	, , , , , , , , , , , , , , , , , , ,				

Model / Application	/ <sub>\$</sub>	/ R.	Serie Line	Se S			a do do	Cap	Cathos Med	
KS-20R / KX-20R	0	0	0	0	_	_	0	_	_	
KS-30R / KX-30R		0	0	0	0	0	0	_	_	
KS-40R / KX-40R	-	0	0	0	0	0	0	_	_	
KS-60R / KX-60R	_	_	_	0	0	0	0	_	_	
KS-80R / KX-80R	-	_	_	_	0	0	0	0	0	
KS-100R / KX-100R	_	_	_	_	0	0	0	0	0	

The most suitable Suitable Not suitable

#### **SPECIFICATIONS**

#### **KS** series

Model	KS-20R KS-30R KS-40				
Voltage	110 V, 120	V, 220 V, 240 V AC	50/60 Hz		
	20 W equiv.	30 W equiv.	40 W equiv.		
Power Consumption	Power consumption may vary according to location and item spec Please see <b>Products power consumption and safety standard</b> D.				
Heater	Nichrome Heater				
Length	205 mm				
Weight	45 g				
Accessories	Soldering Iron Tip				
ACCESSUIRS	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			
	60 W equiv.	80 W equiv.	100 W equiv.			
Power Consumption	Power consumption may vary according to location and item spe Please see <b>Products power consumption and safety standard D</b>					
Heater	Nichrome Heater					
Length	230 mm	235 mm	240 mm			
Weight	65 g	70 g	75 g			
Accessories	Soldering Iron Tip					
Accessories	R-6B	RD-67BC	RD-68BC			

<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

#### **KX** series

KX-20R	KX-30R	KX-40R			
110 V, 120	V, 220 V, 240 V AC	50/ 60 Hz			
20 W equiv.	30 W equiv.	40 W equiv.			
Power consumption may vary according to location and item spec Please see <b>Products power consumption and safety standard</b> 2.					
Nichrome Heater					
208 mm					
50 g					
Soldering Iron Tip					
R-48SB	R-48B	R-48B			
	110 V, 120 20 W equiv. Power consumption me Please see <b>Products po</b>	110 V, 120 V, 220 V, 240 V AC 20 W equiv. 30 W equiv.  Power consumption may vary according to loca Please see Products power consumption and sr  Nichrome Heater 208 mm 50 g Soldering Iron Tip			

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 <b>Products power consumption and safety standard</b> 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

<sup>\*</sup>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-60R/KX-60R Heater	
KS-40H	KS-60H	
KS-80R/KX-80R Heater	KS-100R/KX-100R Heater	
KS-80H	KS-100H	
Recommended Stand	Recommended Stand	
ST-75	ST-11	

**RoHS** 

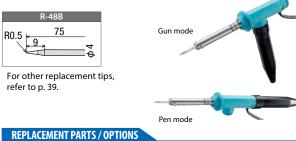
RoHS

# ■ Value Package STARTER KIT (ELECTRONICS/CRAFT & HOBBY) SG series Recommended for Beginners ■ Store quickly after soldering. PORTABLE SOLDERING IRON WITH CAP CA-30R/40R



SPECIFICATIONS					
Model CA-30R CA-40R					
Voltage	110 V, 120 V, 220 V,	240 V AC 50/ 60 Hz			
	30 W equiv.	40 W equiv.			
Power Consumption	Power consumption may vary according to location and item specs.				
	Please see Products power consum	ption and safety standard p.4			
Heater	Nichrome Heater				
Length	185 mm				
Weight	60 g				
Accessories	Soldering Iron Tip: R-48B				

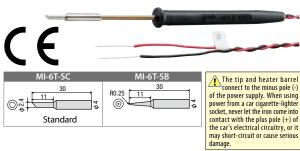
 ${}^*\mathsf{The}\ \mathsf{length}\ \mathsf{does}\ \mathsf{not}\ \mathsf{include}\ \mathsf{the}\ \mathsf{cord}\ \mathsf{bushing}.\ \mathsf{The}\ \mathsf{weight}\ \mathsf{does}\ \mathsf{not}\ \mathsf{include}\ \mathsf{the}\ \mathsf{cord}.$ 



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 length does not include the cord bushing. The weight does not include the cord. REPLACEMENT PARTS / OPTIONS

SG-1

SG-2

Model

CLASSIFICATION

INCLUDED ITEMS

KYP-60/70

High 60 W power when trigger is pulled.

R0.5

Model

Power Consumption

Heater

Length

Weight

SG-1

Solder for Electronics

Desoldering Wick CP-2015

**Electronics Kit** 

Tapered Reamer

Heat Clip H-1L

For hobby use with dual switch.

**DUAL-POWER SOLDERING IRONS** 

Tip Cleaner ST-30

SG-2

Solder for Craft & Hobby

**KYP-70** 

**RoHS** 

Craft & Hobby Kit

Square Scraper/ Knife

Tip Cleaner **ST-30** 

Heat Clip **H-1L** Soldering Paste **BS-10** 

**KYP-70** comes with heat resistant cap for quick

110 V, 120 V, 220 V, 240 V AC 50/60 Hz

Trigger ON 60 W equiv./Trigger OFF 30 W equiv.

Power consumption may vary according to location and item specs

Please see Products power consumption and safety standard P.4

Nichrome Heater3

175 mm

160 g

TQ-CAP (KYP-70), Soldering Iron Tip: RB-475B

For other replacement tips,

**SPECIFICATIONS** 

refer to p. 39.

KYP-60

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

#### **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 9 g Weight Soldering Iron Tip: MI-6T-SC

REPLACEMENT PARTS / UPTIONS	
MI-6-6 V Heater	MI-6-12 VHeater
MI-6H-6 V	MI-6H-12 V
Recommended Stand	
ST-30	

<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

#### **SOLDERING IRONS [NICHROME HEATER SOLDERING IRONS]**



10 to 20 times longer life RoHS than normal copper tips.

#### **RED TIPS / BLACK TIPS** R/RD/RB series

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.



Tip Applicable Model List					
SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
DI 1 T	RB-475B	В	φ4 mm	75 mm	KYP-60, KYP-70
Black Tip	RB-680B	В	φ6 mm	80 mm	KX-60R, KS-60R
	R-48B	В			
	R-48BC	ВС			CA-30/40R
	R-48C	С	φ4 mm	75 mm	KS-20R/30R/40R
	R-48D	D	φ4111111	/3111111	KYP-60, KYP-70
	R-48SB	SB			KX-20R, KX-30R, KX-40R
	R-48SC	SC			
	R-6B	В			
Dod Tie	R-6BC	ВС	- φ6 mm		
	R-6C	С		80 mm	KS-60R
	R-6D	D		00111111	KX-60R
Red Tip	R-6SB	SB			
	R-6SC	SC			
	RD-67B	В			
	RD-67BC	BC	φ6-7 mm	83 mm	KS-80R
	RD-67C	С	φυ-/ ΙΙΙΙΙΙ	03 111111	KX-80R
	RD-67D	D			
	RD-68B	В			
	RD-68BC	BC	φ6-8 mm	88 mm	KS-100R
	RD-68C	С	ψυ-ο ιιιίΙι	00 111111	KX-100R
	RD-68D	D			

# **TIP SHAPES A** TYPE **В** ТҮРЕ **BC** TYPE **C** TYPE **SB** TYPE **SC** TYPE 0)

File reshaping available. RoHS

#### **COPPER TIPS** T series



Tip Applicable Model List					
SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
	T-13A	Α	φ13 mm	115 mm	HP-150
Copper Tip	T-16A	Α	φ16 mm	120 mm	HP-200
	T-19A	Α	φ19 mm	135 mm	HP-300

#### **Tip Size Table**

	TYPE		R-48	R-6	RD-67	RD-68
	<u> </u>	a	0.5	0.8	0.6	0.6
В	Ra	b	9	12	15	17
		С	7	10	10	10
	<del>- b  </del>	a	1.2	1.6	1.5	1.5
BC	0	b	9	12	15	17
		С	45	45	45	45
	ı <del>⊧ b  </del>	a	4	6	7	8
C	e e	b	7	10	10	12
		С	45	45	45	45
	a   c	a	1	1.2	1	1
D		b	3.2	4.2	4	4
		С	13	25	26	27
	Ra, O	а	0.3	0.3	-	-
SB	Ha e	b	14	18	-	-
	1 -	С	2	3	-	_
	b <u>- </u>	a	2	3	-	-
SC	фа	b	14	18	-	_
		С	45	45	_	_

#### **Tip Size Table**

	TYPE		T-13	T-16	T-19
	b Imc	a	2	3	3
Α	φ.	b	20	25	30
		С	13	16	19

appear in the copper tip. Please use a file to reshape the tip.

#### **SOLDERING IRONS [PORTABLE TYPE SOLDERING IRONS]**

#### **PORTABLE TYPE SOLDERING IRONS**

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



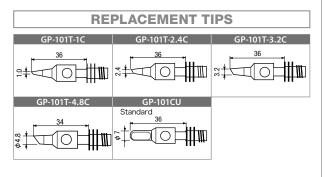


●Compact gas soldering iron. Heats quickly. Takes only 30 seconds from ignition until soldering. 

Controls equivalent power of 10-60 W with the temperature adjuster (at max temperature 480°C).

NOTE: Fill with gas before use.

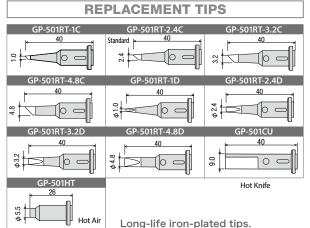
SPECIFICATIONS		
Model GP-101S		
Ignition System	Flint-type ignition system	
Combustion System	Gas Heating System	
Gas Type Butane lighter gas		
Max. Temp. Output	Soldering Iron: 480°C	
Refill Time	3 s	
Operation Time Per Refill	Approx. 45 mins. ( with temp.set at max.)	
Length	157 mm	
Weight	43 g	





•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 Butane lighter gas Gas Type 580°C (Soldering Iron) Max. Temp. Output 1300°C (Blow Torch) 625°C (Hot Air) Refill Time 20 s Operation Time Per Refill Approx. 45 mins. (for soldering) Length 223 mm Weight 147 g



Piezo ignition, compact type.



**GAS-POWERED SOLDERING IRON** 

#### **GP-510 PORTASOL PRO PIEZO**



- until soldering. Controls iron). equivalent power of 15-75 One-handed, one-touch W with the temperature ignition switch. adjuster.
- Optional tip converts it to a hot knife or other hot air tools.
- Operates approx. 45 minutes between refills

● Heats quickly. Takes only (when used at max. 30 seconds from ignition temperature as a soldering



NOTE: Fill with gas before use.

#### **SPECIFICATIONS**

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

REPLACEMENT TIPS				
GP-510RT-1C	GP-510RT-2.4C	GP-510RT-3.2C		
26	Standard 26	26		
GP-510RT-4.8C	GP-510RT-1D	GP-510RT-2.4D		
26	26	26		
GP-510RT-3.2D	GP-510RT-4.8D	GP-510CU		
26	8.8	Hot Knife		
GP-510HT		510ST		
Hot Air 22	37	Must be used with the <b>GP-510HT</b> .		

Long-life iron-plated tips.

A set of soldering iron, 3 tips, cleaner, RoHS 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.







Soldering 2.4 mm Soldering 1.0 mm

By connecting the INCLUDED ITEMS is easy.

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

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

#### **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.



Long-life iron-plated tips.

#### **SOLDERING IRONS [PORTABLE TYPE SOLDERING IRONS]**

#### Always at the ready! **Rechargeable Tabletop Soldering Iron** MSD-6







\*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.





MSD-6HRT-B	MSD-6HRT-D
27	27 Standard

Model	MSD-6	
Voltage/Power Consumption	3.7V/6W	
Temperature	2-3 hours	
Heat-up time	150mm (w/o charging base), 180mm (with charging base)	
Length/Weight	90g (w/o charging base), 120g (with charging base)	
Accessories	Soldering iron tip (MSD-6HRT-D)	
	USB charging cable, suction cup sticker for fixing iron	

#### Mobile soldering iron powered by **USB** cable



#### USB-powered soldering iron MSD-5 NEW



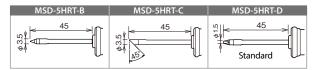
Powered by USB cable. Mobile battery so you can use it anywhere. Can be used as styrofoam cutter with our attachment (sold separately). p.75 SC-5

\*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.





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)	

#### **Easy! Convenient!!**

#### Battery-Powered Soldering Iron MSD-20





#### **USEFUL**

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

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



Compact and portable 180



Locks OFF with

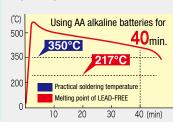




Rechargeable

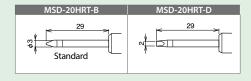
#### Use where cord is impractical, or gas flame is hazardous.

#### 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.

Data represent measured values, measured by our company, not guaranteed values.



Model	MSD-20
Batteries	Alkaline or Ni-MH AA batteries
Voltage / Power Consumption	4.5V / 8W
Size	180 X 40 X 25 mm (with cap)
Weight	62g(without cap and batteries)
Accessories	Tip(MSD-20HRT-B)

#### **SOLDERING IRONS [STAINED-GLASS SOLDERING IRONS]**

#### 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			
ACCESSOLIES	PX-40RT-5CJ	CXR-80RT-5CJ	CXR-100RT-7CJ	

<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

HRC-401	HRC-80	HRC-100
PX-40RT-5CJ	CXR-80RT-5CJ	CXR-100RT-7CJ
25 5	25 0	25 =



#### REPLACEMENT PARTS / OPTIONS

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

#### **SOLDERING TESTER / TIP THERMOMETER**

# **SOLDERING TESTER / TIP THERMOMETER** TM-200 **SOLDERING TESTER TIP THERMOMETER**

Quick measuring. Shorten RoHS your routine.





#### **TIP THERMOMETER** TM-100



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

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

#### LONG-LIFE TEMPERATURE SENSOR (PAT.R.) 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

goot +

#### **■Key Pad**

- Power Switch
- Sensor Reset
- Peak Hold/Mode Set
- Battery Alarm
- 6 Sensor Alarm Hold ON/OFF
- 9 9 9

METER**TM-100** 

#### **SPECIFICATIONS**

Model		TM-100	
Voltage		AA battery LR6 x 4 pcs : 6 V	
Dimensions		83 (W) × 140 (H) × 38 (D) mm	
Weight		150 g (w/o battery)	
Temperature	Resolution	1°C	
	Measuring	Sensor TM-100S: 0-500°C (32-932°F)	
	Range	Probe TM-100SP: 0-700°C (32-1,292°F)	
	Accuracy	0-500°C: ±3°C 501-700°C: ± 4°C	
Operating Environment		0-40°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

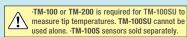
Sensor Probe (1pc.)

TM-100SP

TM-100 Calibration Services TM-100KOUSEI



#### **Compact sensor for** hard-to-reach places.



#### **SENSOR UNIT TM-100SU**



Model	TM-100SU
Dimensions	64 (W) x 28 (H) x 100 (D) (w/o cord)
Weight	210 g
Cord Length	ø4×1.5 m
Compatible Models	TM-100, TM-200



Quick testing. Shorten RoHS your routine.

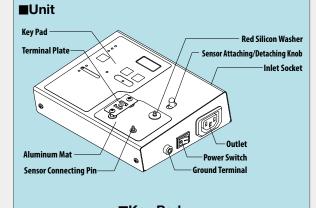


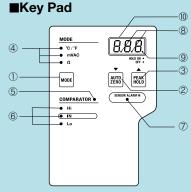


#### SOLDERING TESTER TM-200

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







- **①MODE Changer**
- (Setting key in setting mode) **②AUTO ZERO Button**
- (Down key in setting mode) **③PEAK HOLD Button**
- (Up key in setting mode)
- **4 MODE Lamp**
- **⑤COMPARATOR Lamp** (Lights up)
- **©COMPARATOR Result Indicator**
- **⑦SENSOR ALARM Lamp** (Flashes)
- **® Decimal Point**
- **®** 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 upperlower 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)	
	Resolution	1°C	
Temperature	Measuring Range	Sensor TM-100S: 0-500°C(32-932°F) Probe TM-100SP: 0-700°C(32-1292°F)	
	Accuracy	0-500°C: ± 3° 501-700°C: ± 4°C	
Voltage	Resolution	0-99.9 mV: 0.1 mV 100-200 mV: 1 mV (auto range)	
	Measuring Range	0-200 mV	
	Accuracy	±(5% of reading value + 1dgt)	
	Resolution	$0$ -99.9 $\Omega$ : 0.1 $\Omega$ 100-200 $\Omega$ : 1 $\Omega$ (auto range)	
Resistance	Measuring Range	0-200 Ω	
	Accuracy	± (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 Adapte	

#### 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-100SP	

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

#### **AUTOMATIC SOLDER FEEDER** -



V-groove prevents solder splash.

LEAD-FREE v-groove AUTOMATIC SOLDER FEEDER

ROHS ANTI LEAD STATIC FREE

SOLDER-SPLASH PREVENTION V-groove function

FD-110

CE

MAX Ø1.6 LEAD-FREE SOLDER APPLICABLE\*
Wide tube

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.

INNOVATIVE DESIGN MEANS FEWER CLOGS
Handpiece shaped for smooth solder flow

● 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.

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

Solder feed method for reducing solder clogs.

\*Please tell us your solder diameter when purchasing.



# V-groove function Grooved solder lets flux vapor be released. Reduces splash. Reduces defects. Solder splash Without V-groove, flux is scattered. With V-groove, there is little scattering of flux. Flux Solder Without v-groove

■ Stable quality at less cost! Fixed Solder Feed LEAD-FREE AUTOMATIC SOLDER FEEDER **FD-100** 

ROHS ANTI LEAD STATIC FREE

MAX Ø1.6 LEAD-FREE SOLDER APPLICABLE
Wide tube

INNOVATIVE DESIGN MEANS FEWER CLOGS
Handpiece shaped for smooth solder flow

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

 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.

The above photo is with optional parts. Solder, soldering unit, and other optional parts are not included with this FD-110, FD-100.



1 Temperature-Controlled Lead-Free Soldering Station **③ Automatic Solder Feeder Unit** FD-100

**6** Nozzle

#### **■ FRONT PANEL (Common FD-100/110)**



- Mode Changer
- Peed Time Adjuster
- Feed Speed Adjuster
- Main Power Switch
- Return Amount Adjuster
- O Delay Time Adjuster

#### FD-100 Sample comfiguration

Temperature-Controlled Lead-Free Soldering Station	RX-802AS
Tip	RX-80HRT-B
Automatic Solder Feeder Unit	FD-100
Tube Assy (Solder Dia. Ø0.6–1.0)	FD-100TA-1.0
Guide Pipe (for <b>RX-80GAS</b> )	FD-100P-80
Nozzle (Solder Dia. ø1.0)	FD-100N-1.0
	Lead-Free Soldering Station Tip Automatic Solder Feeder Unit Tube Assy (Solder Dia. Ø0.6–1.0) Guide Pipe (for <b>RX-80GAS</b> )

#### **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	-	有り				
Voltage		100-24	40V AC 50	0/60Hz in	let type	
Power Consumption	8W					
Power Cord Length			1.5	m		
	RX-802AS (RX-80GAS)					
Applicable			X-852AS			
Soldering Irons			X-822AS			
	RX-701/711AS (RX-72GAS)					
Applicable Solder	φ 0.6- 1.6	φ 0.6	φ 0.8	φ 1.0	φ 1.2	φ 1.6
Diameter (mm)	r (mm) LF solder applicable					
Solder Feed Speed	6-22 5-20 1-19					
(mm/s)	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.ø0.6–1.0)	Tube Assy (Solder Dia.ø1.2–1.6)
FD-100TA-1.0	FD-100TA-1.6
Iron Unit RX-80GAS	Iron Unit RX-85GAS
FD-100P-80	FD-100P-85
Iron Unit RX-72GAS FD-100P-72	
Feeder Pen (Solder Dia Ø0 6–1 0)	Feeder Pen (Solder Dia ø1 2–16)

Feeder Pen (Solder Dia.ø0.6–1.0)	Feeder Pen (So
FD-100PN-1.0	FD-100PN-1.6

Solder Dia. φ0.6/ 0.65 Solder Dia. φ0.8/ 1.0 FD-110N-0.6 FD-110N-1.0 Solder Dia. φ1.2/ 1.6 Foot Switch FD-110N-1.6 FD-100FS

#### **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	RX-85HRT 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			Tube Assy	
	FD-100TA-1.0		FD-100TA-1.6		
Pd /	Nozzle Nozzle		Nozzle		
Nozzle	FD-110N-0.6	1102210		FD-110N-1.6	
Feeder Pen	Feeder Pen			Feede	r Pen
49	FD-100PN-1.0			FD-100	PN-1.6
	Nozzle not included. Foot switch is required.			ed.	





#### **SOLDER POTS**



#### **Temperature control knob** for optimal dipping.

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



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

Spatula included.

amp lights when heater is oiv.					
POT-21C	POT-23C	POT-28C			
1 3	Lead-free applicable. No erosion with a ceramic bath.	11 3			
wires, connectors, and large	Suitable for pre-tinning of	Suitable for pre-tinning of			
lead wires.	relatively large parts.	relatively large parts.			

NOTE: No sensor feedback system, so temperature may fluctuate +/-

#### REPLACEMENT PARTS / OPTIONS

POT-21C/23C/28C Heater	POT-21C Bath
POT-23C Bath	POT-28C Bath
POT-23CP	POT-28CP

POT-23C POT-21C

#### POT-28C **SPECIFICATIONS**

Model	P0T-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					

**NOTE**: The weight does not include the cord.

#### Firmly holds the PCB. **PCB DIPPING HOLDER** PCB-1

I 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-** SOLDER POT [cast-iron bath] resistant cast-iron bath. POT-50C



ACCURATE TEMPERATURE CONTROL With PID control

CAST IRON BATH Lead-free solder applicable

DUAL DIGITAL DISPLAY hows 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.	50	0°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) × 28 5(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

Ī	Heater	Bath
	POT-50CH	POT-50CP

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





LARGE BATH For medium-sized PCBs

ACCURATE TEMPERATURE CONTROL With PID control

**CAST-IRON BATH** Lead-free solder applicable DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

THEFT

Accurate temperature control with PID control.

**RoHS** 

**Accurate temperature control RoHS** with PID control.

**SOLDER POT [Stainless bath]** 

**POT-200C** 

**SOLDER POT [Stainless bath]** 

**POT-100C** 



ACCURATE TEMPERATURE CONTROL
With PID control

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

**EASY HEATER REPLACEMENT**Separated structure of heater and bath

ACCURATE TEMPERATURE CONTROL
With PID control

**POT-203C** 

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

**EASY HEATER REPLACEMENT** Separated structure of heater and bath

**Economical and erosion**resistant cast-iron bath.

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



Economical and erosionresistant cast-iron bath.

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



**POT-103C** 



ACCURATE TEMPERATURE CONTROL
With PID control

Lead-free solder applicable

**CAST-IRON BATH** 

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

**EASY HEATER REPLACEMENT** Separated structure of heater and bath 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

#### **SPECIFICATIONS**

Mode	el	POT-100C POT-103C		P0T-200C	P0T-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 Consun	mption	440 W	900 W	650 W	1400 W	4 kW		
Max. Temp.		350°C	450°C	400°C	450°C	400°C		
Set Accuracy			=	±{(1.25% of display tempera	ature)+1°C}			
Heater		Nichrome Heater	Sheath Heater	Nichrome Heater	Sheath Heater	Sheath Heater		
Control Syster	m	PID Control						
Power Cord Le	ength	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 M	laterial	SUS316	Cast Iron	SUS316	Cast Iron	Cast Iron		
Max. Solder V	olume	Approx. 5.5 kg	Approx. 3.5 kg	Approx. 9.5 kg	Approx. 7 kg	50 kg		
	Bath Unit	360 (W)×124	(H)×220 (D) mm	450 (W)×124 (I	602 (W) × 165(H) × 427 (D)			
Dimensions C	Control Unit		-		-			
S	(mm) Solder Bath   91(W)×60(H)×135(D)   82 (W)×53 (H)×110 (D)		82 (W)×53 (H)×110 (D)	180 (W)×60 (H)×130 (D)	173 (W)×53 (H)×108 (D)	400 (W) × 60(H) × 300 (D)		
Weight	Weight 5kg 8kg		8kg	7kg 11 kg		43 kg		

NOTE: The weight does not include the cord.

THE ENGLISHED TANKING	OI IIOIID			
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-203C Heater	POT-103C Bath (Cast Iron)	POT-203C Bath (Cast Iron)	POT-400C Heater
POT-103CHA	POT-203CHA	POT-103CP	POT-203CP	POT-400CHAH (for Bottom)
POT-103CHB	POT-203CHB			POT-400CHBH (for side)

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REPLACEMENT PARTS / OPTIONS

#### **SURFACE-MOUNT / SMT PRODUCTS**







#### **Reball Kit allows replacement** of solder balls on a BGA.

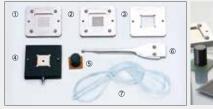
**REBALL KIT** 

#### **XRB** series

RoHS



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.)







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



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



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



the solder balls into the



Mount the Ball Guide. Pour 5. Press the solder balls into 6. the cream solder with the



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

ACCURATE TEMPERATURE CONTROL
With PID control

HAND OPERATION
Heater and vacuum switches on the handpiece

VARIOUS PROFILES AVAILABLE
Up to 19 profiles, each with 5 zones

ON/OFF INTERFACE Controls external preheater

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.

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



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** 









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 preprogrammed for each of the 5 Zones



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	✓	✓	✓	<b>✓</b>
Auto Cool-down	_	_	<b>√</b>	/
Ergonomic Handpiece	<b>√</b>	<b>√</b>	1	✓

<sup>\*</sup>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 A	AC 50/ 60 Hz	220 V, 230 V, 240 V AC 50/ 60 Hz					
Power Consumption	400-4	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	220-24	10 V AC	220 V, 230	/, 240 V AC	
Air-flow Meter		Equi	pped		
Air-flow Volume	5–251	_/min	5–23L /min	5–25L /min	
Auto-lift Function	Included		-		
Modes	3 (Profile-Normal, I	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 (I	H) ×265 (D) mm	182 (W) ×179 (I	H)× 263 (D) mm	
Weight	7.6 kg ( v	v/o cord )	8.4 kg ( w/o cord )	7.8 kg ( w/o cord )	
Accessory	Connection Ca	able with Preheater, Handpiece Hold	Handpiece Holder, XVCW-SET		

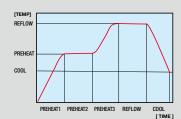
#### **Handpiece Unit**

Model	XFC-301	XFC-300	XFC-210	XFC-110					
Voltage	220-24	10 V AC	220 V, 230	220 V, 230 V, 240 V AC					
Power Consumption	370-4	130 W	400	O 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.) <b>XFC-301/300</b> 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
Vacuum Cup	P

#### **SURFACE-MOUNT / SMT PRODUCTS**

#### XFC Series Optional Nozzles (PAT.)

XNSG series (for SO, SOL)

D /N	A		D		Annii sahia Dashana
P/N	inch	mm	inch	mm	Applicable Package
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	\$08

#### XNSG series (for SOJ)

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

#### **XNPG series (for PLCC)**

D/N	A		В		C		D		Annell and the Day downs
P/N	inch		inch		inch		inch	mm	Applicable Package
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

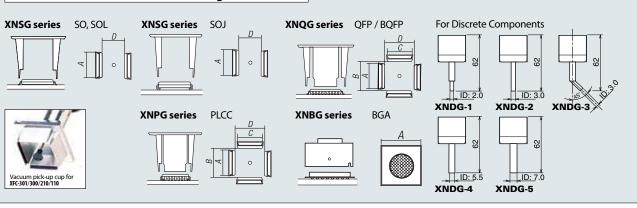
Custom nozzles are available. Please contact a  ${\it goot}$  distributor.

#### XNQG series (for QFP, BQFP)

P/N	Į.			В		С		)	Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	Applicable Lackage
<b>XNQG 12 × 12</b>	0.472	12	0.551	14	0.472	12	0.551	14	QFP64,QFP48,QFP80,BQFP28
<b>XNQG 14 × 14</b>	0.591	15	0.677	17.2	0.591	15	0.677	17.2	SQFP100, TQF100
XNQG 14 × 20	0.591	15	0.665	16.9	0.827	21	0.906	23	SQFP12, QFP80, QFP100
<b>XNQG 16 × 16</b>	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
<b>XNQG 24 × 24</b>	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
<b>XNQG 40 × 40</b>	1.535	39	1.654	42	1.535	39	1.654	42	BQFP244

#### XNBG series (for BGA)

	A			
P/N	inch	mm	Applicable Package	
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	



#### Fixes the XFC series handpiece securely.

#### HANDPIECE HOLDER **XK-1**





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

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

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

#### HANDPIECE HOLDER







•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	
Difficusions	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**



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**





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



**Hot Air Vent Adjusters** 



XPR-610

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

**PREHEATER** 

XPR-1000 RoHS



•Large heating area quickly provides uniform heat on large multi-layered PCBs. •PID control achieves precise temperature control for lead-free solder. 

Comes with antiwarping tool. •Instant upgrade when combined with XFC series rework station.



#### **SPECIFICATIONS**

MODEL	XPR-610	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	270 x 270 mm
Air Flow (Fan Performance)	0.23 m <sup>3</sup> /min	_
Recommended Holder	Mini PCB Holder Assy (included)	Board Holder (included)
Max. PCB size	150 mm x open side	424 x 460 mm (Max.)
Dimensions	180 (W) x 90 (H) x 256 (D) mm	508 (W) x 145 (H) x 610 (D) mm
Weight	2.8 kg	16.6 kg

#### **SURFACE-MOUNT / SMT PRODUCTS**

Speedy and accurate reworking of chip parts.



# SOLDERING TWEEZERS **XST-80**



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





#### **SPECIFICATIONS**

Model	XST-80 (Control Unit,Tweezers Unit Grip)	
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)	
Accessories	Soldering iron stand ST-28	

#### **Control Unit**

Output Voltage	24 V AC	
Dimensions	115 (W) x 98 (H) x 146 (D) mm	
Weight	1.8 kg (w/o cord)	

#### **Grip Unit**

Voltage/Consumption	24 V AC / 72 W	
Heater	Nichrome heater	
Ground Resistance	Less than 2 Ω	
Leak Voltage	Less than 2mV	
Cord Length	1.2 m	
Length	120 mm ( w/o cord bushing, with tip cartridge)	
Weight	48 g ( w/o cord, with tip cartridge)	

Equivalent to IPC/EIA J-STD-001C

#### REPLACEMENT PARTS / OPTIONS

Soldering Unit
XST-80G
Soldering Iron Stand Sponge
ST-53SP

Soldering Iron Stand Cleaner ST-40BW Soldering Tweezers Stand ST-28

#### 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

certification for a fee.



#### **Multifunction 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**

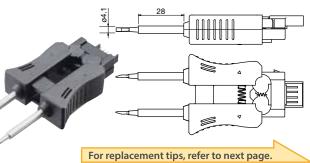
Stroke adjustment for handling various sizes of parts. (PAT.P)

#### **Grip with integrated tip**

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



Tip cartridge (This is not included.)



Speedy and accurate reworking of chip parts

#### **SOLDERING TWEEZERS UNIT**

(Tweezers unit grip only)



XST-80G

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



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 fatique



High-accuracy design with minimum tip deviation for variety of chip parts.



When you use the soldering iron stand ST-21 or ST-27 with XST-80G, the front opening ST-28MS for the Soldering Tweezers is required (sold separately).

SPECIFICATIONS			
Model XST-80G (Tweezers Unit Grip)			
Voltage/Consumption	24 V AC / 72 W		
Heater	Nichrome heater		
Cord Length	1.2 m		
Length	120 mm ( w/o cord bushing, with tip cartridge)		
/eight 48 g ( w/o cord, with tip cartridge)			

#### REPLACEMENT PARTS / OPTIONS

Soldering Tweezers Stand ST-28

Soldering Iron Stand Sponge ST-53SP

Soldering Iron Stand Cleaner ST-40BW

Front Opening of the Tip Cartridge ST-28MS

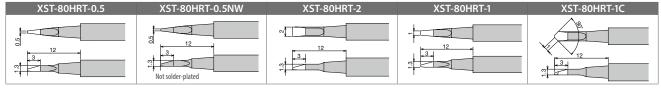






When you use the soldering iron stand ST-21, 22 or ST-27 with XST-80G, please remove its front opening, and replace with the front opening ST-28MS for the tip cartridge (sold separately).

#### Tips/heaters not sold apart from cartridges. REPLACEMENT PARTS / OPTIONS



#### **DESOLDERING PRODUCTS -**



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



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

#### **SERVICE STATION**





**400% MORE SUCTION CAPACITY** With open-valve mechanism

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

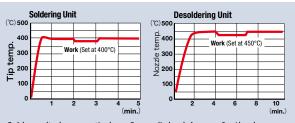
**SUPERIOR TEMPERATURE-CONTROL CIRCUIT**To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER Makes changing the filter easy

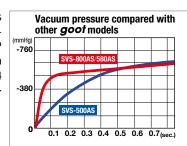
#### **PRODUCT SPECIFICATIONS / FUNCTIONS**

#### TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



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

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



#### **SUCTION CAPACITY COMPARISON**

The arrow indicates solder residue.





SVS-500AS

SVS-800AS/ 580AS

#### **OPEN-VALVE MECHANISM**

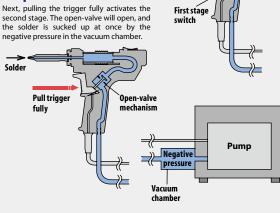
Two-stage trigger switch (PAT.P)

#### Step 1

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

#### Step 2

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 0	Cord Length	1.5 m Inlet type	1.5 m
Temp.	Desoldering Unit	250-450°C	250-450°C
Setting	Soldering Unit	200-480°C	200-480°C
Range	Rework	150-550°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 mm Hg)
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) × 240 (H) × 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)

#### **DESOLDERING UNIT**

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

#### **SOLDERING UNIT**

Weight Standard Tip	70 g (with <b>PX-2RT-B</b> ) <b>PX-2RT-B</b>	70 g (with <b>PX-2RT-B</b> ) <b>PX-2RT-B</b>
Length	190 mm (with <b>PX-2RT-B</b> )	190 mm (with <b>PX-2RT-B</b> )
Cord Length	1.2 m	1.2 m
Heater	Ceramic heater	Ceramic heater
Leak Voltage	Under 2 mV	Under 2mV
Ground Resistance	Less than 2 Ω	Less than 2 $\Omega$
Power Consumption	70 W	70 W
Input Voltage	220-240 V AC	110 V,120 V, 220-240 V AC

#### **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.54 & p. 63



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

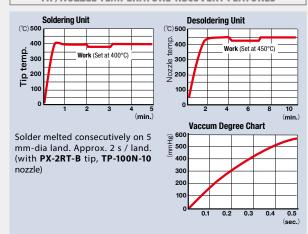
#### **SOLDERING UNIT**

● 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 clogs.

#### TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



#### **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
	Iron Unit	250-450°C
Setting Range	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 <b>ST-76</b>
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	Less than 2 Ω
Leak Voltage	Under 2mV
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. 63



**ST-76** soldering iron stand (included)

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



Trigger

First stage

switch

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.





**OPEN-VALVE MECHANISM** 

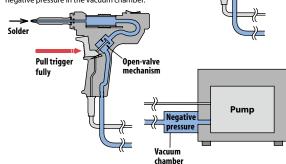
Two-stage trigger switch (PAT.P)

#### 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.

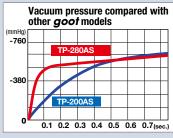


#### **NOZZLE TEMPERATURE-RECOVERY FEATURES**

Solder melted consecutively on 5 mm-dia 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 0.1second. (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)
Fower Consumption	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 <b>TP-100CP-13</b> Soldering iron stand <b>ST-76</b>
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 × 155 mm
Weight	250 g (w/o hose )
Standard Nozzle	TP-100N-S5

For replacement tips, nozzles, and optional parts, refer to p. 63



#### **DESOLDERING PRODUCTS**

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

#### AUTOMATIC DESOLDERING STATION **TP-200AS**

 $\epsilon$ 

● 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

For replacement tips, nozzles, and optional parts, refer to p. 63

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

#### PORTABLE DESOLDERING GUNS **TP-100/100AS**



iron stand

(included)



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

irougn-noie to muiti-layered PCB

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

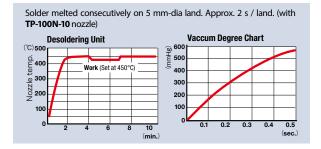
ZERO VOLT SWITCH CIRCUIT Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

●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 250-450°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	
	Cleaning pin TP-10	0CP-07/ Filter TP-100F
Accessories	Carry case	
	Heat resistant pipe /Stand	
Dimensions	225 × 170 mm	
Weight	470 g (w/o cord)	

#### **NOZZLE TEMPERATURE-RECOVERY FEATURES**



#### **SPECIFICATIONS**

MODEL	TP-200AS
Voltage	110 V,120-130 V, 220-240 V AC 50/60 Hz
Dawer Canaumation	130 W (110 V,120-130 V)
Power Consumption	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
Accessures	Soldering iron stand <b>ST-76</b>
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) x 205 (H) x 256 (D) mm
Weight	2.6kg (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 × 155 mm
Weight	250 g (w/o cord, hose)
Standard Nozzle	TP-100N-10

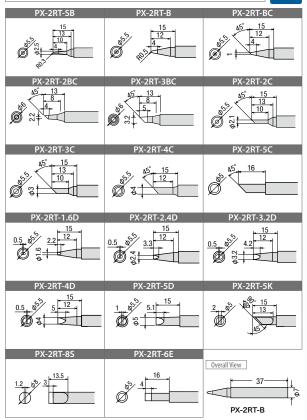


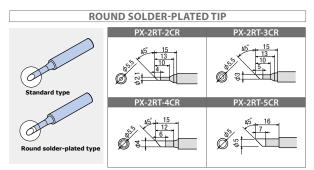
For replacement tips, nozzles, and optional parts, refer to p. 63

#### REPLACEMENT TIPS

SVS-800AS/580AS/500AS

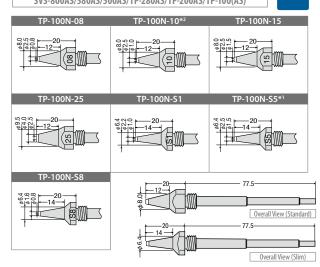












- $\$^1$  Model SVS-800AS, SVS-580AS, TP-280AS Standard Nozzle : TP-100N-S5
- \*\*2Model SVS-500AS, TP-200AS, TP-100(AS) Standard Nozzle: TP-100N-10

#### REPLACEMENT PARTS / OPTIONS

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

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

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

#### **REPLACEMENT PARTS FOR TP-280AS/200AS**

*Desoldering Unit for TP-280AS TP-28GAS	Desoldering Unit for TP-200AS  TP-20GAS
Heater	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**

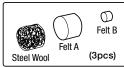
#### Filter

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

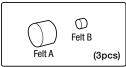
#### Joaning Bin Vice

Cleaning Pin Vice	Cleaning Pin
Pin vice body (The drill bit is not included.) <b>TP-100PV</b>	<u>Ø0.7 mm (for Ø0.8 &amp; 1.0 mm nozzle)</u> <b>TP-100CP-07</b>
Drill Bit ø0.7 mm TP-100DB-07	ø1.3 mm (for ø1.5 & 2.5 mm nozzle) <b>TP-100CP-13</b>
Drill Bit ø0.9 mm <b>TP-100DB-09</b>	
Drill Bit ø1.4 mm TP-100DB-14	
Drill Bit ø2.4 mm TP-100DB-24	

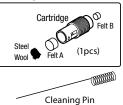
#### Filter Set TP-100F



#### Felt Set TP-100FT



#### Cartridge Set TP-100K



#### Cleaning Pin Vice



#### $Iron\ Unit\ SVS-800AS,\ SVS-580AS,\ SVS-500AS$



#### **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	Туре	Width	Length	
CP-1015 <b>NEW</b>	Plain Knitting	Approx. 1.0 mm		
CP-1515	Plain Knitting	Approx. 1.5 mm		
CP-2015 Plain Knitting		Approx. 2.0 mm		
CP-2515	Plain Knitting	Approx. 2.5 mm	Approx. 1.5 m	
CP-3015 Plain Knitting		Approx. 3.0 mm		
CP-3515	Plain 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	Туре	Width	Length	
CP-15Y	Plain Knitting	Approx. 1.5 mm		
CP-20Y	Plain Knitting	Approx. 2.0 mm		
CP-25Y	Plain Knitting	Approx. 2.5 mm	Approx. 2m	
CP-30Y	Plain Knitting	Approx. 3.0 mm		
CP-35Y	Plain 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	Туре	Width	Length
CP-10B NEW	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	Plain Knitting	Approx 3.5 mm	Approx. 15m

#### Manual pumps suck up solder. Plunger pumps are light, strong, and economical. DESOLDERING SUCKERS GS series









**GS-158** 

**GS-150** 

JUMBO SIZE Large vacuum capacity













**GS-100** 





#### **■ ECONOMICAL PACKS OF 10PCS DESOLDERING WICKS**

#### **CP** series



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



#### **Economical packs of 10pcs**

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

#### 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.



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 E m	10noo/ Dook
CPN-3015-10	Plain Knitting	Approx. 3.0 mm	Approx. 1.5 III	TOPUS/ Pack

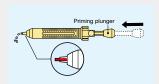
			Width					
Rosin	Length	1.0 mm	1.5 mm	2.0 mm for LEAD-FREE	2.5 mm	3.0 mm for LEAD-FREE	3.5 mm	Quantity
HALOGEN-FREE	1.5 m			CPN-2015-10				10
TIALOGEN-TINEL	1.5111					CPN-3015-10		10
		CP-1015	CP-1515					1
		CP-1015-10	CP-1515-10					10
				CP-2015				1
				CP-2015-10				10
					CP-2515			1
	1.5 m				CP-2515-10			10
	1.3 111					CP-3015		1
						CP-3015-10		10
							CP-3515	1
							CP-3515-10	10
								1
RMA flux								10
			CP-15Y					1
				CP-20Y				1
	2.0m				CP-25Y			1
						CP-30Y		1
							CP-35Y	1
	13m							1
	15m						CP-35B	1
	20m				CP-25B			1
	23111					CP-30B		1
	30m	CP-10B	CP-15B					1
	50111			CP-20B				1

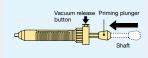
#### **SELF-CLEANING SHAFT**

## solder build-up.

#### **PLUNGER LOCK FUNCTION**

When the plunger is pushed, a piston extends out the nozzle. This prevents the shaft by pushing it in completely, and shaft by pushing it in completely, and pressing the vacuum release button. Compact storage.





REPLACEMENT NOZZLES				
GS-108N	GS-158N	GS-100N	GS-150N	
12.4	979	13.5 E 13.5	13.5	

#### **SPECIFICATIONS**

MODEL	GS-100	GS-104	GS-108
Color		ivoly	
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-1	100N	GS-108N

MODEL	GS-150	GS-154	GS-158
IVIODEL	43-130	U3-134	u3-130
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-1	150N	GS-158N

#### **SOLDERING ACCESSORIES**

#### **SOLDERING ACCESSORIES TIP RECOVERY MAGNIFIERS** TIP REFRESHER MINI VISE **STARTER KIT ANTI-STATIC MATS TIP CLEANERS WRIST STRAPS SOLDERING IRON STANDS SURFACE RESISTIVITY METER SOLDERING IRON STAND ST-27** AIR PURIFYING TYPE FUME VACUUM **PCB Holder LOW-DUST GLOVES / ANTI-STATIC GLOVES**

#### Rub Tip Oxides Away **RoHS** TIP RECOVERY **ST-45** Rub tip oxides away, BEFORE restore solder wetting capability.

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



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

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

Rohs ANTI

#### No water, so less heat loss. **TIP CLEANER**



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



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**

- 1. Optimal tip temperature for cleaning is 300°C-360°C.
- 2. Rub the tip in the tip refresher.
- 3. Apply solder to the tip, and clean the tip with the sponge of the soldering iron stand.
- 4. 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



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.

**RoHS** 

**SOLDERING IRON STANDS** 

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





#### For ceramic-heater soldering iron only

Cannot be used for HRC series





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-75 V	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

**RoHS** 

#### 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.



**RoHS** 





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.

Width

92 mm

163 mm

Solder is not included.

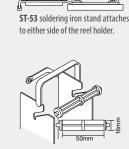
MODEL

ST-51

ST-52

ST-53





Under ø14mm B Under ø28mm

Under 105mm

С

#### **REPLACEMENT PARTS / OPTIONS**

ST-11 Sponge	ST-75/76/77/75 V Sponge
ST-11SP	ST-70/75SP
ST 07 (00 S)	6T 27/20/52 6

Depth

120 mm

150 mm

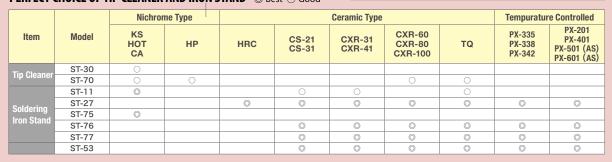
ST-27/28/53 Sponge ST-53SP ST-27/28 Cleaner (2pcs) ST-40BW



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

#### 





#### **SOLDERING ACCESSORIES**

#### **Holds large PCBs firmly**



# PCB Holder (PCB Assembly Jig) **ST-200**

#### **Holds large PCBs firmly**

Useful for mounting of components, cutting lead wire, soldering, etc.

#### **Takes large PCBs**

Accommodates PCBs up to 500 x 210 mm when central rail is removed.

#### Easy to mount/unmount PCBs

Springs in guide rails enable you to mount/unmount PCBs without re-adjustments

#### **Anti-static foam for supporting components**

Anti-static foam supports components so they don't move around or fall.

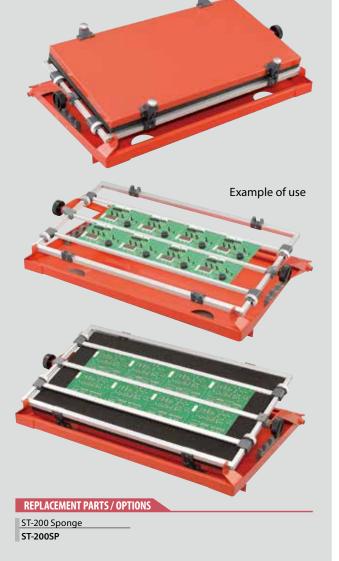
#### Adjust PCB angle

Adjusts allow PCB to be set at various angles.



#### **SPECIFICATIONS**

Model	ST-200
Width	575 mm
Depth	360 mm
Hight	335 mm (at vertical position)
Weight	5.4kg



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



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

#### Rubber suction base easily fixes to any work table.

MINI VISE **ST-80** 

Makes soldering work easier by holding small components.



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

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

ANTI-STATIC MATS WD-130/WD-13







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

Model	Lenath	Width	Thickness	Material/	Surface F	Resistivity	
Model	Lengui	Widdi	HIICKHESS	Hardness	Surface (green)	Bottom (black)	
WD-130	10m	1 m	2 mm	Synthtic	10 <sup>7</sup> –10 <sup>9</sup>	10 <sup>3</sup> –10 <sup>5</sup>	
WD-13	2m	Im		∠ mm	2 mm	Rubber/65	Ω/ sq

Item	Model	Specifications
<b>Ground Wire Plate</b>	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)

#### **■**OPTION







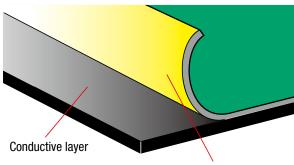
WD-1E

WD-3020

• Elastic & scissible rubber sheet.

#### Double structure

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



Static-diffusion layer

Avoid electrostatic discharge and protect sensitive electronic devices.

WRIST STRAPS **WS-11/12** 







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

SPECIFICATIONS						
MODEL Cord Length Cord Material Band Width						
1.7 m	Doluurothono	20 mm				
<b>WS-12</b> 2.8 m		20 111111				
	Cord Length 1.7 m	Cord Length Cord Material 1.7 m Polyurethane				

#### REPLACEMENT PARTS / OPTIONS

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

#### Color LED measurement display. Compact and portable.

#### SURFACE RESISTIVITY METER

#### **WA-400**



• Measures the Surface Resistivity [ $\Omega$ /sq], Resistance to Ground (RTG)  $\left[\Omega\right]$  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.

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

Range	Classification	LED Display
Less than 10 <sup>5</sup> $\Omega$ ( $\Omega$ /sq)	Conductive	Green
Between 106 and 1011 $\Omega$ ( $\Omega$ /sq)	Dispassive	Orange
More than 10 <sup>12</sup> $\Omega$ ( $\Omega$ /sq)	Insulative	Red
The state of	Surface R	







#### **SPECIFICATIONS**

MODEL	WA-400
Power Supply	9 V (006P) Battery
Ranges	10 <sup>3</sup> –10 <sup>12</sup> Ω / sq (Surface Resistivity)
	10 <sup>3</sup> –10 <sup>12</sup> Ω (RTG & RTT)
Battery Life	Approx. 40 hours
Dimensions	61 (W) × 26 (H) × 96 (D) mm
Weight	70 g (w/o battery)
AccessoriesAccessories	2 x Test Wires

#### **SOLDERING ACCESSORIES** -

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

AIR PURIFYING TYPE FUME VACUUM

#### **SS-80AS**



● Timer function tells you when to replace filters. Clog detection function finds clogs. • Self-standing duct does not require tools.

 Optional 2nd duct\* allows two spots to be worked at the same time. OOptional HEPA filter boosts collection efficiency to 99.97%. OAir-volume adjustment function.

#### **WORK TWO SPOTS AT ONCE.**

2nd duct hose optional.

#### **EASY INSTALLATION.**

Filter replacement also easy.





#### **REPLACEMENT PARTS / OPTIONS**

Main-Filter (95%)	Nozzle
SS-80MF	SS-80N
Main Filter (HEPA)	Duct Hose
SS-80MFH	SS-80D
Pre-Filter (5pcs)	Duct Cap
SS-80PF	SS-80C
SS-80PF   Nozzle Filter (10pcs)	SS-80C  Remote Controller

# Nozzle







#### **SPECIFICATIONS**

MODEL	SS-80AS
Voltage	110-120 V, 220-240 V AC 50/60 Hz
Power Consumption	170W
Noise Level	60dB (at 1m from the unit)
Smoke Exhaust	2 ducts (ø75 mm)
Collection Efficiency	95% 0.3µm (Middle-class filter)
Duct Hose Length	1.4m
Suction Capacity	2 ×150 m³/h
Power Cord Length	1.5 m inlet type
Dimensions/ Weight	250 (W) ×410 (H) ×425 (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 Controller

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

#### LOW-DUST GLOVES / ANTI-STATIC GLOVES **WG series**

#### WG-1/2 series

#### **LOW-DUST GLOVES**



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

•Machine washable.

MODEL	Coating	Size	A×B	
WG-1S		S	65 × 185 mm	
WG-1M	Fingertip Coating	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

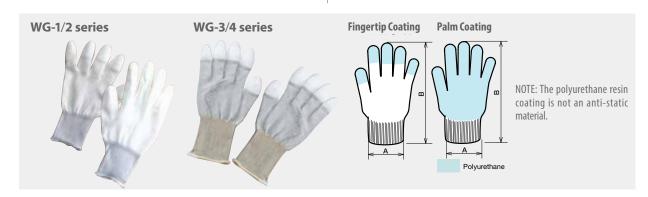
#### **ANTI-STATIC GLOVES**



●Remove static 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		S	65 × 185 mm
WG-3M	Fingertip Coating	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



# HAND TOOLS

#### **SOLDERING WORK MATERIALS**

#### Provides improved soldering performance.



**SOLDERING PASTES** 

**BS-850** 

Good for PCB lead wires and electric components.



BS-850

#### **ROSIN** based PASTE

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

# For soldering tips & nozzles ANTI-SEIZE BS-H20B



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



Cap with brush

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

#### Provides improved soldering performance.



**SOLDERING PASTES** 

**BS-10/15** 

Improves wettability.

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



**BS-15** 

#### **SOLDERING PASTES**

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

#### Improves oxidized soldering tips.



#### RoHS MSDS

TIP REFRESHER

BS-2

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







#### **HOW TO USE**

- 1. Optimal tip temperature for cleaning is 300°C-360°C.
- 2. Rub the tip in the tip refresher.
- **3.** Apply solder to the tip, and clean the tip with the sponge of the soldering iron stand.
- **4.** 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		

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





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

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-A0403	96.5-3.0-0.5		ø0.3 mm	107 m	45 g	Rosin core
SF-A0404		217- 220°C	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		

RoHS MSDS

RoHS MSDS

# Low-Ag type



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

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin	
SF-B1003			ø0.3 mm	225 m			
SF-B1004			ø0.4 mm	127 m			
SF-B1006			ø0.6 mm	56 m		Rosin core	
SF-B1008	99-0.3-0.7		ø0.8 mm	32 m		HOSHI COLE	
SF-B1010		216-227°C	ø1.0 mm	20 m	100 g		
SF-B1012					ø1.2 mm	14 m	
*SF-B1012N			ø1.2 mm	14 m		None	
SF-B1016			ø1.6 mm	6 mm 8 m		Rosin core	
*SF-B1016N			ø1.6 mm	8 m		None	
SF-B4006			ø0.6 mm	225 m			
SF-B4008	99-0.3-0.7	216-227°C	ø0.8 mm	127 m	400 g	Rosin core	
SF-B4010	33-0.3-0.1	210-221 0	ø1.0 mm	81 m	400 g	HUSHI GUIG	
SF-B4012			ø1.2 mm	56 m			
SF-B8008	99-0.3-0.7		ø0.8 mm	253 m			
SF-B8010		216-227°C	ø1.0 mm	162 m	800 g	Rosin core	
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)

### **LEAD-FREE SOLDERS HALOGEN-FREE SF-N series**

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



### Special purpose SPECIAL SPOOL-SOLDERS SE special series

MODEL	Item	Composition (Sn-Pb)	M.T.	Dia.	Weight	Length (reference)	Rosin
SF-06003RMA	RMA WASH FREE	• ( )		ø0.3 mm		180 m	Rosin core
SE-06006RMA		60-40%		ø0.6 mm	100 g	48 m	
SE-0AG08	Ag solder	60-37.5-2.5(Ag)%	178-211°C	ø0.8 mm		27 m	Rosin core
SE-06308	Eutecitc solder	63-37%	183-184°C	ø0.8 mm		27 m	
SE-OST16	Stainless-use solder	63-37%	183-184°C	ø1.6 mm	100 g	7 m	Name and a second
SE-0BA16	Metal-work solder	45-55%	183-227°C	ø1.6 mm		6 m	Non-rosin core
SE-05010				ø1.0 mm		17 m	
SE-05012				ø1.2 mm	100 a	12 m	
SE-05016				ø1.6 mm	100 g	7 m	
SE-05020				ø2.0 mm		4 m	
SE-55010				ø1.0 mm		85 m	
SE-55012	Pb containing solder	50-50%	183–215°C	ø1.2 mm	500 q	60 m	Rosin core
SE-55016	Pro containing solder	30-30%	103-213 6	ø1.6 mm	500 g	35 m	
SE-55020				ø2.0 mm		20 m	
SE-K5010				ø1.0 mm		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				ø0.6 mm		48 m	
SE-06008				ø0.8 mm	! }	27 m	
SE-06010				ø1.0 mm	100 g	17 m	
SE-06012				ø1.2 mm		12 m	
SE-06016				ø1.6 mm		7 m	
SE-56006				ø0.6 mm		240 m	
SE-56008				ø0.8 mm		135 m	
SE-56010	Pb containing solder	60-40%	183-190°C		500 g	85 m	Rosin core
SE-56012				ø1.2 mm		60 m	
SE-56016				ø1.6 mm		35 m	
SE-K6006				ø0.6 mm		480 m	
SE-K6008				ø0.8 mm	1 1	270 m	
SE-K6010				ø1.0 mm	1 kg	170 m	
SE-K6012				ø1.2 mm		120 m	
SE-K6016				ø1.6 mm		70 m	







# **HEATED TOOLS** HOT BOND/HOT KNIVES/HOT SLICER



Many uses! Easy operation!

• Hobby/Industrial use. Load the gun with "hot stick" glue. The gun melts the glue.

#### **FEATURES**

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

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

#### NOTE

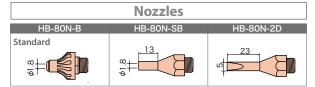
Data (right) is measured values. This is not a warranty. Reheating will melt hot stick again. Please test carefully for suitability to your situation. TAIYO is not responsible for misuse.

Main composit	ion	Ethylen - Vinyl Acetate		
Soften point		84°C (Ring & ball)		
Open time		30 s		
Setting time		18 s		
Viscosity	180°C	10000 cps		
Viscosity	170°C	15000 cps		
	Peeling strength	Canvas 2.59 kg/cm		
Glue strength	Share strength	PVC-PVC 27.81 kg/ cm <sup>2</sup> PVC-ABS 24.33kg/ cm <sup>2</sup>		

### **SPECIFICATIONS**

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.





01 = 011 1 07 111 0 110				
<u> </u>				
HB-45				
110-240 V AC 50 / 60 Hz				
7 W				
160°C				
PTC Heater				
130(W)x115(H)mm				
100 g				
Hot Sticks 3pcs (Approx. ø7 x 100 mm), Wire Stand				

**SPECIFICATIONS** 

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



### ●Hot stick (solid glue) for HB-80.

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

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



### ●Hot stick (solid glue) for HB-45

MODEL	Color	Length/mm	Weight/g	Quantity
HB-40S			Approx. 50	12
HB-40S-B1	TP	Approx.	300	Approx. 72
HB-40S-1K		ø7×100	1 k	Approx. 250
HB-40S-10K			10 k	Approx. 2,500



<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

### 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).



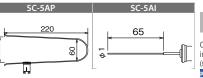
\*USB charging adapter not included.











### 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)
	Bow attachment SC-5AP
Accessories	Straight attachment SC-5AI
	Nichrome Heater Wire 1 piece

\*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.

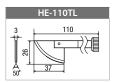
### For nylon net or cloth HOT SLICER **HE-110**



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



#### **REPLACEMENT PARTS / OPTIONS**



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

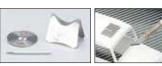
<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

### 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.



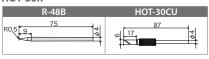


### Cutting ability within 5 seconds.

	,					
	Cross section view of sample material					
	HOT-30R HOT-60R					
Plastic Types	Thickness	Bar (Dia.)	Thickness	Bar (Dia.)	Diameter	
Vinyl Chloride	0.5 mm	2 mm	1 mm	3 mm	(mm)	
Acrylic	0.5 mm	2 mm	1 mm	3 mm	<board></board>	
ABS	1 mm	3 mm	2 mm	4.5 mm	10mm →	
Polypropylene	1 mm	3 mm	1 mm	3 mm	↑ Thickne	
Polycarbonate	1 mm	3 mm	1 mm	3 mm	(mm)	

#### **REPLACEMENT PARTS / OPTIONS**

#### HOT-30R



HOT-30R Heater KS-30H HOT-60R Heater KS-60H

HOT-60R

R-6BC	HOT-60CU
90 12 90	φ 17 φ

MODEL	HOT-30R	HOT-60R	
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz		
	30 W equiv.	60 W equiv.	
Power Consumption	Power consumption may vary according to location and item specs.		
	Please see Products power consumption and safety standard [2.4]		
Heater	Nichrome Heater		
Length	230 mm	250 mm	
Weight	50 g	65 g	

<sup>\*</sup>The length does not include the cord bushing. The weight does not include the cord.

## HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS

### **HAND TOOLS**

**HEAT CLIPS SOLDER ASSIST CERAMIC CORE DRIVERS CORE ALIGNMENT TOOLS** MAINTENANCE TOOL SETS

SUPER CUTTERS

**HOBBY NIPPERS** 

PRECISION TWEEZERS

AIR-POWERED DEPANELING TOOL

**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 **RoHS**

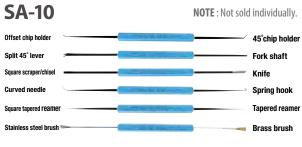
H-1L is suitable for reaching into narrow spaces. H-2SL is a set of H-1S and H-1L.



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

### Convenient set of 6 tools for assembling and repairing PCBs.

**RoHS** 



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

### **SUGGESTED USES**

**SOLDER ASSIST** 



Removes ICs or condensers.



**Chip Holder** Holds chips and micro components for soldering



Hook Removes components such as resistors.



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.



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 cecramic tip. Best adjusting tool for high-frequency components such as in Tuner, TV, Radio, Transceiver.



MODEL	Length	Weight	Tip size	Tip type
CD-15			1.3 (W) x 0.4 (D) mm	CD-15T
CD-20	11E mm	F ~	1.8 (W) x 0.4 (D) mm	CD-20T
CD-25	115 mm	5 g	2.6 (W) x 0.4 (D) mm	CD-25T
CD-100			No.0. +	CD-100T

#### **■ TIP SHAPES**









**RoHS** 

### REPLACEMENT PARTS / OPTIONS

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



Made of plastic. Can be used safely for high-voltage NOTE: Not sold individually.

MODEL		SIZE		Length	Weight
CD-1	1.2 5 0.65 1.4	2.6 2.7	1.5 1.45 0.75	127mm	3.2g
CD-2	1.95 2	2.6 2.65 2.0	1.95 0.9	141mm	3.1g
CD-3	2.65 1.0 2.65	3.1 3.35	3.15 3.25 1.2	131mm	3.5g
CD-4		2.8 5 0.3 3.45 0.3		137mm	4.2g
CD-5	For trimmer p	potentiometer diam. φ7	.8, inner diam. φ5.8	136mm	2.2g



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

### **HAND TOOLS** TWEEZERS



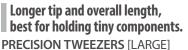


Non-magnetic



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

Length Approx. 140 mm





Non-magnetic



Weight

TS-11

### Small-sized tweezer in standard model.



Approx. 15 g









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



MODEL



Non-magnetic







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

Non-magnetic

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

### Eagle-beak tweezers with 45° bent tip.



**PRECISION TWEEZERS** [EAGLE BEAK]

Non-magnetic





MODEL	Tip Snape	Length	weignt
TS-15	Curved	Approx. 120 mm	Approx. 15 g

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



**PRECISION TWEEZERS** [REVERSE ACTION]

Non-magnetic





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



#### **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-20 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

MODEL	Contents
TL-20	20
TL-10	13

## HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS







#### **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)		124 mm
YP-3	ø1.6 mm (soft iron)	145 mm
YP-4	ø1.6 mm (soft iron)	160 mm



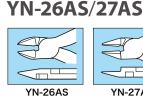
●Ball-bearing grade steel ●Black oxide coated to resist rust

●Anti-static model





Flush Cutting Edge



**SUPER CUTTERS** 

High-quality steel Anti-static model

	YN-26AS		
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	

YN-27AS



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

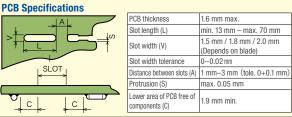
MODEL	YN-300
Compressed Air Pressure	6-7 Bar-Tube ø6
Consumption	3.5 NI/ min
Blade Material	Tempered steel
Approximate Dimensions	Approx.
(not including the blade)	210 x 35 mm
Weight	400 g

Replacement blade/ Replacement blade set

Replacement

YN-300- B series

Replacement blade set Ω 0 YN-300- SB



MODEL Replacem	ent blade set ent blade	YN-300-SB15 YN-300-B15	YN-300-SB18 YN-300-B18	YN-300-SB20 YN-300-B20	
Blade thickness		1.5 mm 1.8 mm 2.0 mm			
Blade Material		Tempered steel			
A		1.5 mm	1.8 mm	2.0 mm	
PCB	В	1-3 mm			
application size C min. 13 mm-max. 70 mm		nm			
		max 16 mm			

replacement blade	neplacement blade set
Replacement blade 1.5 mm (LDPP15)	Replacement blade set 1.5 mm (LPDPP15)
YN-300-B15	YN-300-SB-15
Replacement blade 1.8 mm (LDPP18)	Replacement blade set 1.8 mm (LPDPP18)
YN-300-B18	YN-300-SB-18
Replacement blade 2.0 mm (LDPP20)	Replacement blade set 2.0 mm (LPDPP20)
YN-300-B20	YN-300-SB-20

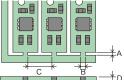




MODEL	Length	Weight	Blade Thickness	
YN-210AS NEW			1.0 mm	
YN-215AS	147 mm	95 g	1.5 mm	
YN-220AS			2.0 mm	

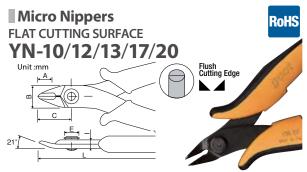
#### **Specifications**

	YN-210AS	YN-215AS	YN-220AS		
Α	1.1 mm or more	1.6 mm or more	2.1 mm or more		
В	2.5 mm or less				
С		25 mm or more			
D					



ROHS ANTI

### **HAND TOOLS** PRECISION NIPPERS



•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.

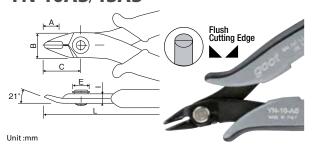


MODEL	Max. Cut Dia.	Α	В	С	Е	- 1	L
YN-10	ø1.3	8	13.5	20	9	6	140
YN-12	ø1.0	8	10	18	9	5	133
YN-13	ø0.8	8	9.5	18	9	4	133
YN-17	ø1.3 (Thin blade)	8	13.5	20	9	5	138
YN-20	ø1.6	8	13.5	20	9	6	139

### Anti-static type. PRECISION NIPPERS **YN-10AS/13AS**







•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.	А	В	С	Е	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. **RoHS** PRECISION NIPPERS YN-21 Flush Cutting Edge

●Inclined 48° blades. For specific work such as the leads of surface-mounted components.

NOTE: Use on

MOD

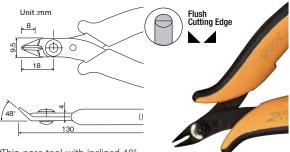
YN-21

Unit:mm

ly for cuttin	g copper wire.	رسال
EL	Max. Cut Dia.	Length
LL	iviax. Gut Dia.	Lengui
21	ø1.3 mm	137 mm

### For High-Density PCBs. PRECISION NIPPERS **YN-15**





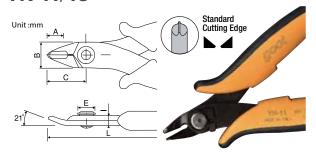
●Thin-nose tool with inclined 48° blades. Ideal for hard-to-reach areas. •Cleanly cuts flat IC leads by aligning the cutting edge with the circuit board.

**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. ●YN-18 is stronger than YN-11.●The YN-11 has a safety clip for holding wire scraps securely after cutting.



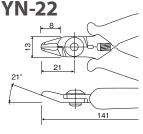
**RoHS** 

NOTE: Use only for cutting copper wire.

MODEL	Max. Cut Dia.	Α	В	С	Е	-	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





Unit:mm

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

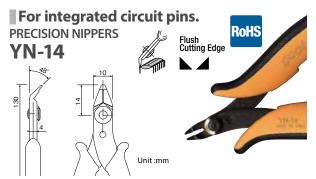




**NOTE**: Use only for cutting copper wire.

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

## **HAND TOOLS** PRECISION NIPPERS



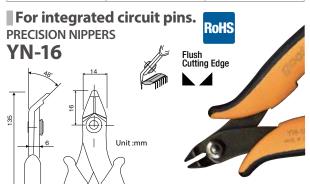
●Angled at 48° for the cutting of integrated circuit pins. •Held in the reverse manner to standard nippers, the YN-14 cuts the flat IC leads that face away from the user.





 $\label{NOTE: Use only for cutting copper wire.} \\$ 

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



●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.

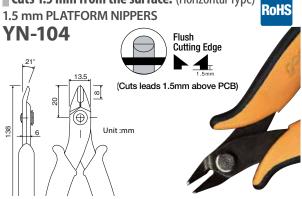




**NOTE**: Use only for cutting copper wire.

MODEL	Man Out Dia	I a sa sakla
MODEL	Max. Cut Dia.	Length
YN-16	ø1.0 mm	135 mm





Outs wires 1.5 mm from the PCB surface.

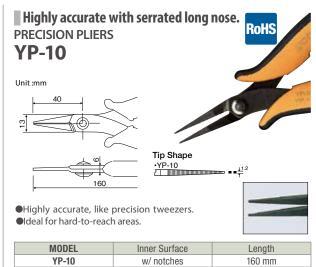
**NOTE**: Use only for cutting copper wire





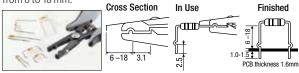


MODEL	Max. Cut Dia.	Length
YN-104	ø1.3 mm	138 mm



Crimps and cuts. CRIMPING PLIERS YP-201AS NEW	ROHS ANTI	
Unit:mm 36		
152	1	

●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	ø1.0 mm



## **HAND TOOLS** WIRE STRIPPERS

### 2 in 1! Wire stripper and cutter. RoHS 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.

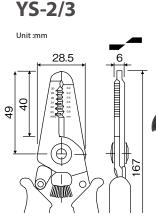






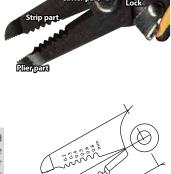
MODEL	Max. strip section	Length
YS-1	0.2-5.5 mm <sup>2</sup>	170 mm

### Three functions: Cutters, Wire stripper, Pliers. PRECISION WIRE STRIPPER



•Multi-use tool. It can be used as: Cutters, multi-diameter wire stripper, and pliers. 

Lock for handy storing. •Spring reduces muscle fatigue.



YS-2

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	107 111111

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

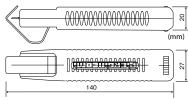
**CABLE STRIPPER** 

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

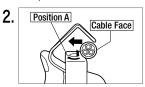


NOTE: Cannot be used with oval-shaped cables.

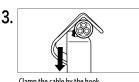
#### **HOW TO USE**

1.

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	140 111111

### REPLACEMENT PARTS / OPTIONS

YS-100 /101 Blade

YS-100HA

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REBALL KIT .....

**XRB** series



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- · Models and specifications are subject to change without prior notice.