

# TAYO ELECTRIC GOOD



# INTRODUCTION



InterElectronic Hungary Ltd. offers equipments, machines and different materials (ESD) of different production technologies (SMT/THT/LED). Including high quality, special request fulfilling soldering machines, devices, tools, instruments and materials for the electronic industry and services.

## SERVICES

Our each and every product has a warranty granted by the InterElectronic Hungary Ltd. For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories and instruments.

## DEMONSTRATION

In case if any of our products aroused your interest the InterElectronic Hungary Ltd. would be glad to visit your company and hold a presentation of the product of your interest. As far as possible we serve you by bringing demo devices with us. In the most cases of our products we are proud possessors of references nation-wide. Major machines also could be observed at our partners' site.

## PRICE LIST

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website ([www.interelectronic.com](http://www.interelectronic.com)), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

## ORDER/SHIPPING

Our soon to be partners are welcomed to be helped via telephone, fax or e-mail. We use different ways of delivery, depending on the preference of our partner. We can deliver your purchased product by ourselves, by freight or courier service. The way of delivery might be negotiated previously. We offer you cash on delivery nation-wide!

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Taiyo Electric manufactures and markets a wide variety of products for both industrial and household use to meet a wide range of user needs, from soldering and SMT rework-related products to educational training aids. Today's global awareness of the need to protect the environment has prompted us to make it our priority to consider our corporate responsibility as a manufacturer.

The recently introduced restrictions on the use of harmful substances in electronic products has resulted in a worldwide switch from traditional leaded solder to lead-free solder and the concomitant need to meet the twin challenges of limiting energy expenditure and maintaining high standards of quality. Taiyo has responded to these challenges by promptly investing in research to develop new products specifically designed for lead-free soldering applications, tackling each step individually and developing the design of durable, highly accurate and user-friendly products, thereby enabling many companies to manufacture products that are environmentally sound.

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# LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

## RX-822AS

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

2 soldering irons can be used.



Tips not included.



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

### 2 Soldering Irons can Be Used\*

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

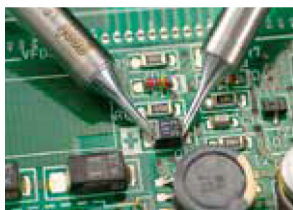
### Easy-to-Use Handpiece (PAT.)

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



### 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.

### 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.

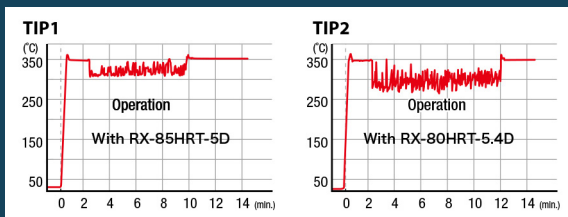


## INCLUDED

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

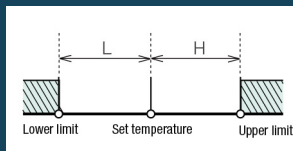
### TIP-TEMPERATURE RECOVERY FEATURES



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

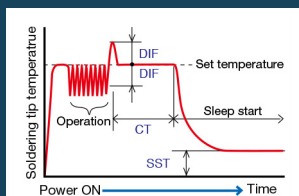
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

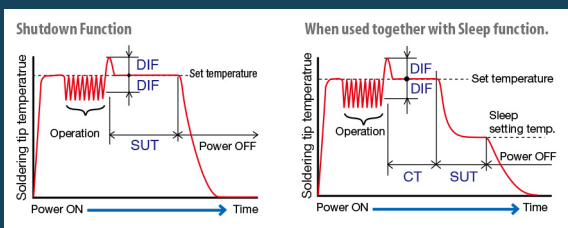


**MODE:** Sleep function ON/OFF  
**CT:** Sleep start time  
**SST:** Sleep set temperature  
**DIF:** Sleep sensitivity  
 Each parameter can be set.

### SLEEP FUNCTION RELEASE

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)

### 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.

## REPLACEMENT PARTS / OPTIONS

### ACCESSORIES

### HANDPIECE GRIP RUBBER

For quick identification of soldering tasks or types.

RX-80RB : gray

RX-80RB-BK : black

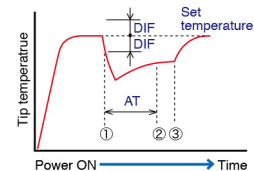
RX-80RB-GR : green

RX-80RB-OR : orange



## 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 pre-set countdown. (The display flashes twice)
- (3) Operator takes the tip off the component.



## SPECIFICATIONS

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

### Control Unit

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

### Soldering Unit

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

Equivalent to IPC/EIA J-STD-001C

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

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



# RX-852AS

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

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



Tips not included.



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

## Excellent Heat Recovery (PAT.)



Up to 22mm<sup>2</sup> copper wire can be soldered.

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

## Fastest in Its Class

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

## Light and Compact Handpiece

Same size as the RX-80GAS.

## Tip Replacement without Tools (PAT.)

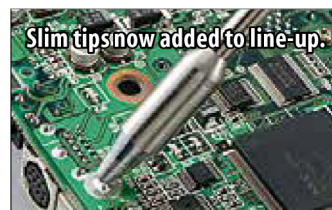
Slide-change tip. Easy to replace a hot tip without any other tools.

## Thick Tip Coating for Lead-free Soldering

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

## RX-80HRT Tips also Available

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



Slim tips now added to line-up.

## HOW TO CHANGE TIPS

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

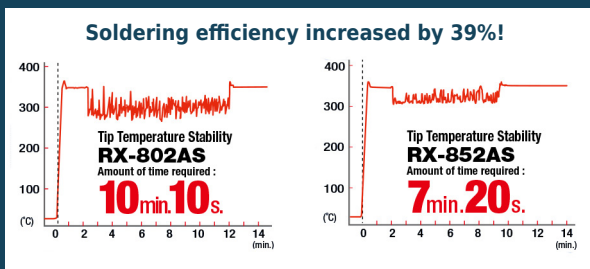


**INCLUDED**



## PRODUCT SPECIFICATIONS / FUNCTIONS

### TIP-TEMPERATURE RECOVERY FEATURES

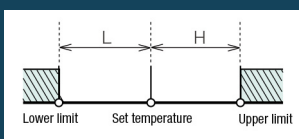


A generous amount of lead-free solder on a land of 20mm dia. dissolving 35 points in succession at 350°C.

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

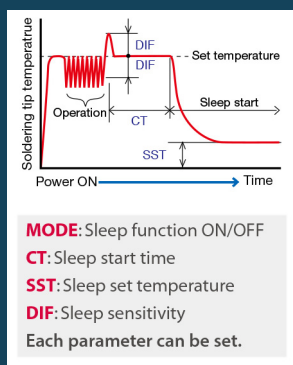
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

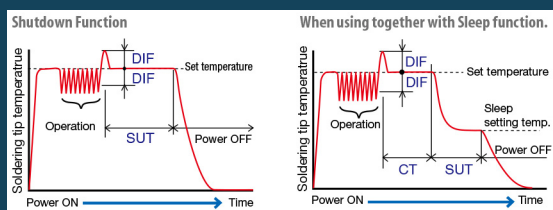
Automatically lowers the temperature when the iron is not in use, during a preset period of time. Prevents tip oxidation and excess heating. Can be used with Shutdown function.



### SLEEP FUNCTION RELEASE

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)

### 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.

### REPLACEMENT PARTS / OPTIONS

#### ACCESSORIES

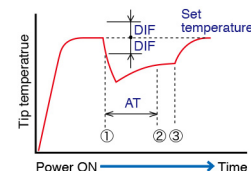
#### HANDPIECE GRIP RUBBER

For quick identification of soldering tasks or types.

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

### SOLDERIG ALARM FUNCTION (PAT.)

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



#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

#### NEW ERGONOMIC GRIP (PAT.)

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

### SPECIFICATIONS

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

#### Control Unit

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

#### Soldering Unit

Voltage/Consumption	Soldering Unit1 (RX-85GAS) : 24V AC / 72W-150W Soldering Unit2 (RX-80GAS) : 24V AC / 72W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	Soldering Unit1 : 1.5m, Soldering Unit2 : 1.2m
Length	RX-85GAS 174mm (with RX-85HRT-5D) RX-80GAS 158mm (with RX-80HRT-B)
Weight	RX-85GAS 39g (with RX-85HRT-5D) RX-80GAS 28g (with RX-80HRT-B)
	Equivalent to IPC/EIA J-STD-001C

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

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



# RX-802AS

## TEMPERATURE-CONTROLLED LEAD-FREE NITROGEN SOLDERING STATION

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



Tips not included.



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

### Excellent Heat Recovery (PAT.)

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

### Fastest in Its Class

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

### Tip Replacement without Tools (PAT.)

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

### Reduced Grip Heat

Patented thermal-insulation grip permits comfortable and safe work.

### Thick Tip Coating for Lead-free Soldering

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

### HOW TO CHANGE TIPS

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



**INCLUDED**

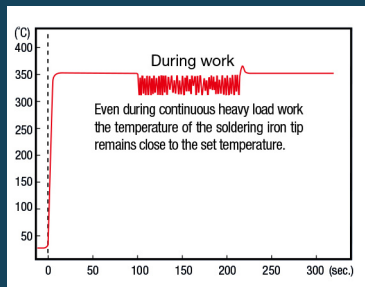




## PRODUCT SPECIFICATIONS / FUNCTIONS

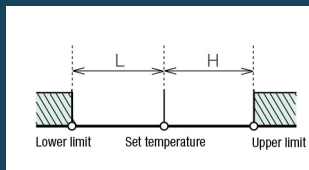
### TIP-TEMPERATURE RECOVERY FEATURES

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



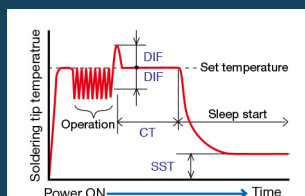
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

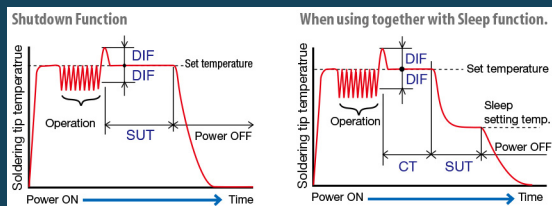


**MODE:** Sleep function ON/OFF  
**CT:** Sleep start time  
**SST:** Sleep set temperature  
**DIF:** Sleep sensitivity  
 Each parameter can be set.

#### SLEEP FUNCTION RELEASE

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)

### 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.

### REPLACEMENT PARTS / OPTIONS

#### ACCESSORIES

#### HANDPIECE GRIP RUBBER

For quick identification of soldering tasks or types.

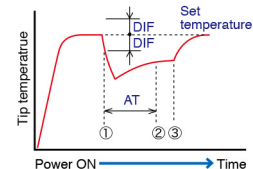
RX-80RB : gray RX-80RB-GR : green  
 RX-80RB-BK : black RX-80RB-OR : orange

### SOLDERIG ALARM FUNCTION (PAT.)

(1) Soldering time countdown (AT) starts when the tip is applied to the component. (The tip temperature goes outside DIF)

(2) The alarm sounds after the preset countdown. (The display flashes twice)

(3) Operator takes the tip off the component.



#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

#### NEW ERGONOMIC GRIP (PAT.)

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

### SPECIFICATIONS

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

#### Control Unit

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

#### Soldering Unit

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

Equivalent to IPC/EIA J-STD-001C

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

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



# RX-802ASPH

## TEMPERATURE-CONTROLLED LEAD-FREE NITROGEN SOLDERING STATION

Nitrogen improves solder wetting  
and fillet shape.

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



Tips not included.



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

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

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



### Slim N2 Nozzles

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

### Light and Easy-to-use Handpiece

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

### Flexible N2 Induction Tube

Super-flexible. Allows free maneuvering of  
handpiece.

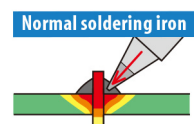
### Special Tool for Easy Tip Replacement

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

## IMPROVING LEAD-FREE SOLDERING

### Advantages of the Preheat Effect

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



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

### Advantages of Preheating with Nitrogen

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



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

**INCLUDED**



## PRODUCT SPECIFICATIONS / FUNCTIONS

### SPECIFICATIONS

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

For basic performance, please refer to RX-802AS. The standard soldering unit RX-80GAS and the tips RX80HRT series cannot be used as a N<sub>2</sub> soldering iron.

Control Unit	
Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.8kg
Soldering Unit	
Voltage / Consumption	24V AC / 72W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	1.2m
Length	158mm (with RX-80HRT-PHB)
Gas Supply Pressure	0.2MPa(2kgf/cm <sup>2</sup> )
Weight	33g (with RX-80HRT-PHB)

Equivalent to IPC/EIA J-STD-001C

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

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

## REPLACEMENT PARTS / OPTIONS

Soldering Unit Hand Piece <b>RX-80GASPH</b>  Tip is not included	N2 O-ring <b>RX-80PHP</b> 	Tip changing tool <b>RX-80PHC</b> 	Soldering Iron Stand Sponge <b>ST-53SP</b> 	Soldering Iron Stand Cleaner <b>ST-40BW</b>  (2pcs./set)
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## N2 STATION NC-100R

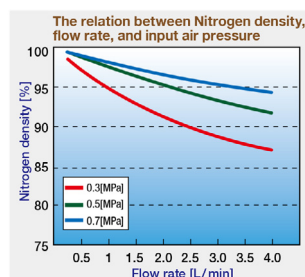
A compact N2 station combining N2 generator and controller.



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



### NITROGEN GENERATION DENSITY (According to in-house measuring method)



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

### SPECIFICATIONS

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

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

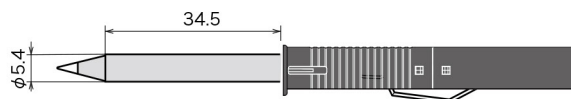


L/min	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.3	98.7	96.6	94.5	92.0	90.8	89.7	88.5	87.5
0.5	99.8	99.2	98.0	96.8	95.7	94.8	93.8	92.6
0.7	99.9	99.7	99.2	98.3	97.7	97.1	96.3	95.4

# LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATION TIPS

**RX-80HRT Series / Applicable Model (Grip)**

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

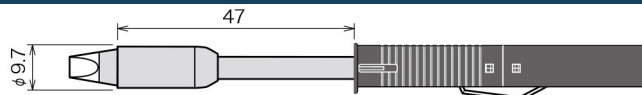


**RoHS**

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

**RX-85HRT Series / Applicable Model (Grip)**

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



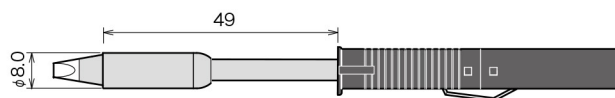
**RoHS**

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

# LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATION TIPS

RX-85HSRT Series / Applicable Model (Grip)

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

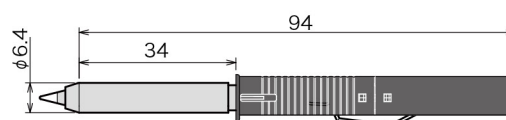


RoHS

RX-85HSRT-B	RX-85HSRT-2BC	RX-85HSRT-3BC	RX-85HSRT-1.6D	RX-85HSRT-2.4D

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

RX-802ASPH (RX-80GASPH)



RoHS

RX-80HRT-PHB	RX-80HRT-PH2B	RX-80HRT-PHSB	RX-80HRT-PHLB	RX-80HRT-PHLBJ



## Coming Soon

## Speedy and accurate reworking of chip parts



**GRIP WITH INTEGRATED TIP**  
Allows less deviation of both tips.

## MULTIFUNCTION TWEEZERS UNIT

### Calibration, Sleep, Key Lock, etc..

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

## CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

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

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

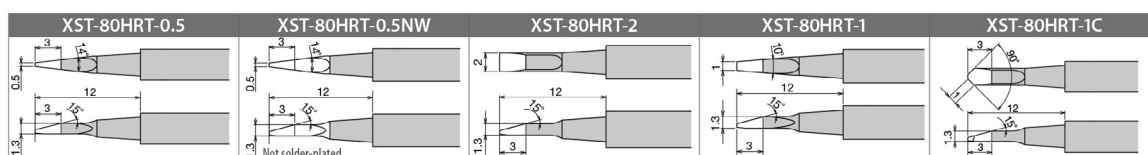
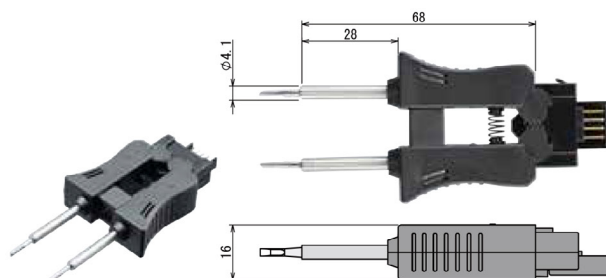
Control Unit

### Soldering Unit

Voltage	24V AC
Power Consumption	Approx. 70W
Cord Length	118mm ( w/o cord )
Weight	55g ( w/o cord )

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

Equivalent to IPC/EIA J-STD-001C



# XST-80G

## SOLDERING TWEEZERS UNIT

**NEW**

Multifunction Tweezers Unit

RoHS

ANTI  
STATIC

High-accuracy design with minimum tip deviation.

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

NOTE: The tweezers unit XST-80G must be used with our

RX-822AS/852AS/802AS. Tweezers unit does not work alone.

**GRIP WITH INTEGRATED TIP**  
Allows less deviation of both tips.

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

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

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



**Coming Soon**

### APPLICABLE MODELS - SAMPLE CONFIGURATION

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

**RX-822AS**



2 soldering irons can be used.

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

TEMPERATURE-CONTROLLED  
LEAD-FREE SOLDERING STATION

**RX-852AS**



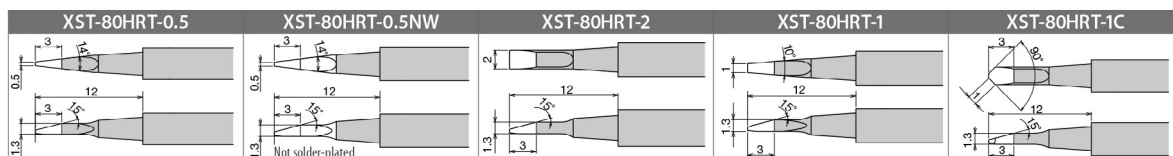
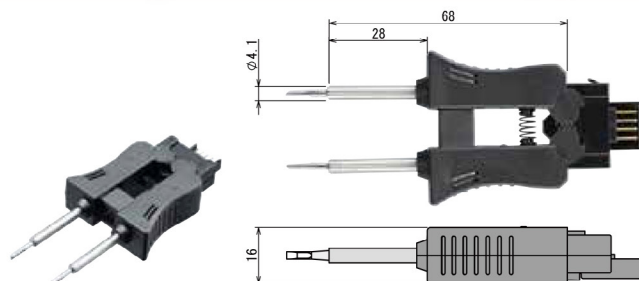
TEMPERATURE-CONTROLLED  
LEAD-FREE SOLDERING STATION

**RX-802AS**



### SPECIFICATIONS

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



# FD-100

## LEAD-FREE AUTOMATIC SOLDER FEEDER

**Stable quality at less cost!**  
**Fixed Solder Feed**



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

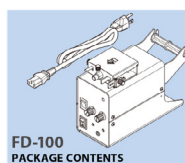
**RoHS**

**ANTI  
STATIC**

**LEAD  
FREE**



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



FD-100  
PACKAGE CONTENTS



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



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

**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).
- Ø0.6-1.6mm lead-free solder applicable.

### CHOOSING OPTIONAL PARTS

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

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

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

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

# FD-100

## LEAD-FREE AUTOMATIC SOLDER FEEDER

### SAMPLE CONFIGURATION



### SPECIFICATIONS

MODEL	FD-100
Voltage	100–240V AC 50/60Hz
Power Consumption	8W
Power Cord Length	1.5m inlet type
Applicable Soldering Irons	RX-802AS (with RX-80GAS) RX-852AS (with RX-85GAS) RX-822AS (with RX-80/85GAS) RX-701/711AS (with RX-72GAS)
Applicable Solder Diameter	ø0.6–ø1.6 (LF solder applicable)
Solder Feed Speed	6–22mm/sec (unloaded)
Solder Feed Time	0–4sec
Returned Solder Amount	0–5mm (fixed speed)
Solder Feed Delay Time	0–5sec
Dimensions	82(W) × 140(H) × 210(D)
Weight	1.5kg (w/o solder)

### REPLACEMENT PARTS / OPTIONS

Solder Nozzle	Guide Pipe
Solder Dia.φ0.6/0.65 <b>FD-100N-0.6</b>	Soldering unit RX-80GAS <b>FD-100P-80</b>
Solder Dia.φ0.8 <b>FD-100N-0.8</b>	Soldering unit RX-85GAS <b>FD-100P-85</b>
Solder Dia.φ1.0 <b>FD-100N-1.0</b>	Soldering unit RX-72GAS <b>FD-100P-72</b>
Solder Dia.φ1.2 <b>FD-100N-1.2</b>	
Solder Dia.φ1.6 <b>FD-100N-1.6</b>	

# LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING IRONS

## PX-401

HIGH HEAT VOLUME  
TEMP-CONTROLLED SOLDERING IRON

RoHS



Large tip for high  
thermal-storage effect.

TEMPERATURE ADJUSTABLE  
300-480°C

ERGONOMIC GRIP  
Prevents fatigue

ACCURATE TEMPERATURE CONTROL  
Ceramic heater with internal sensor

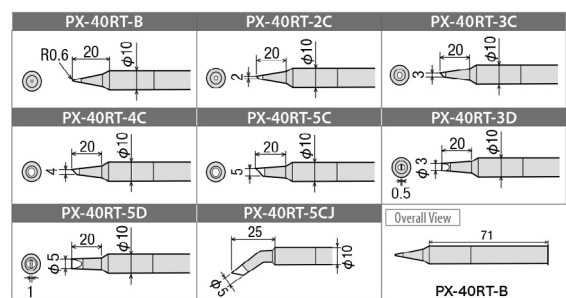
Large THERMAL-STORAGE EFFECT  
Easy soldering of large parts

### SPECIFICATIONS

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

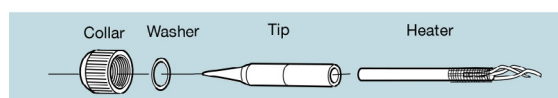
\*The length does not include the cord bushing. The weight does not include the cord.

### REPLACEMENT TIPS



### REPLACEMENT PARTS / OPTIONS

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





# LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING IRONS

## PX-201 TEMPERATURE-CONTROLLED SOLDERING IRON



Heat Insulation Cap for  
Quick Storage Included.



Wide-range iron with  
temperature adjuster.

**TEMPERATURE ADJUSTABLE**  
250-450°C

**ERGONOMIC GRIP**  
Prevents fatigue

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

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

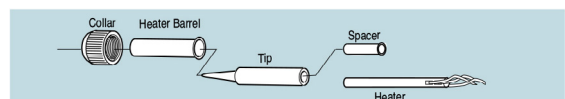
### SPECIFICATIONS

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

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

### REPLACEMENT PARTS / OPTIONS

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

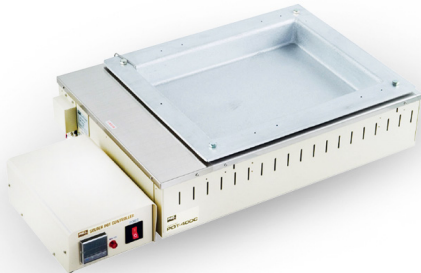


## SOLDER POTS

### POT-400C

SOLDER POT (cast-iron bath)

Takes medium PCBs.



**LARGE BATH**  
For medium-sized PCBs

**CAST-IRON BATH**  
Lead-free solder applicable

**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

#### SPECIFICATIONS

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

NOTE: The weight does not include the cord.

### PCB-1 PCB DIPPING HOLDER



Firmly holds the PCB.



### POT-100C

SOLDER POT (Stainless bath)

Accurate temperature control with PID control.



**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

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

#### SPECIFICATIONS

Model	POT-100C
Voltage	110V, 120V, 220V, 240V AC 50/60Hz
Power Consumption	440W
Max. Temp.	350°C
Set Accuracy	±{(1.25% of display temperature)+1°C}
Heater	Nichrome Heater
Control System	PID Control
Power Cord Length	1.3m
Solder Bath Material	SUS316
Max. Solder Volume	Approx. 5.5kg
Dimensions	360(W)×124(H)×220(D)mm
Solder Bath Dimensions	91(W)×60(H)×135(D)mm
Weight	5kg

Holds the PCB firmly for dipping into the solder pot.

#### SPECIFICATIONS

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

## SOLDER POTS

### POT-103C

#### SOLDER POT (cast-iron bath)

- Economical and erosionresistant cast-iron bath.



**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

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

**CAST-IRON BATH**  
Lead-free solder applicable

### POT-200C

#### SOLDER POT (cast-iron bath)

- Accurate temperature control with PID control.



**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

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

## SPECIFICATIONS

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

## SOLDER POTS

### POT-50C

#### SOLDER POT (Stainless bath)

Economical and erosionresistant cast-iron bath.

RoHS

LEAD  
FREE



**ACCURATE TEMPERATURE CONTROL**  
With PID control

**CAST-IRON BATH**  
Lead-free solder applicable

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

Lead-free applicable bath. Perfect for pre-tinning of transformer leads or small PCBs.

Accurate PID temperature control. (sensor feedback ON/OFF control available)

Temperature adjustable up to 500°C.

Assured temperature control with the digital key-lock function.

Safety housing design.

### SPECIFICATIONS

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

NOTE: The weight does not include the cord.

### POT-203C

#### SOLDER POT (cast-iron bath)

Economical and erosionresistant cast-iron bath.

RoHS

LEAD  
FREE



**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

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

**CAST-IRON BATH**  
Lead-free solder applicable

### SPECIFICATIONS

Model	POT-203C
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	1400W
Max. Temp.	450°C
Set Accuracy	±{(1.25% of display temperature)+1°C}
Heater	Sheath Heater
Control System	PID Control
Power Cord Length	1.5m
Solder Bath Material	Cast Iron
Max. Solder Volume	Approx. 7kg
Dimensions	450(W)×124(H)×220(D)mm
Solder Bath Dimensions	173(W)×53(H)×108(D)mm
Weight	11kg

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

Temperature control knob  
for optimal dipping.



Spatula included.



Spatula included.



Spatula included.

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

## FEATURES

Zero-cross control drastically reduces output noise (Timeproportioning system).

LED pilot lamp lights when heater is ON.

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

## REPLACEMENT PARTS / OPTIONS

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

## SPECIFICATIONS

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





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