



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

**Vol.55**



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Management System  
ISO 9001:2015  
www.tuv.com  
ID 9105020933



# INDEX

## SOLDERING SYSTEMS 8-11

DESKTOP SOLDERING SYSTEM **FA-1000/1100 SERIES**

**FA-1000/1100** ..... 8

SAMPLE ROBOT CONFIGURATION ..... 10

DUAL HEAD CONFIGURATION ..... 11

POSITIONING CAMERA ..... 11

## SOLDERING IRONS LEAD-FREE TEMPERATURE-CONTROLLED 12-25

ULTRA HIGH POWER 500W SOLDERING STATION

**RX-892AS** ..... 14

150 W EXCELLENT HEAT RECOVERY SOLDERING STATION

**RX-852AS** ..... 16

80 W ULTIMATE SOLUTION SOLDERING STATION

**RX-802AS** ..... 18

MICRO SOLDERING STATION

**RX-812AS** ..... 20

DUAL-PORT SOLDERING STATION

**RX-822AS** ..... 22

NITROGEN SOLDERING STATION

**RX-802ASPH** ..... 24

N<sub>2</sub> STATION

**NC-100R** ..... 25

## SOLDERING IRONS TEMPERATURE-CONTROLLED 26-27

TEMPERATURE-CONTROLLED SOLDERING STATIONS

**RX-701AS/711AS** ..... 26

MINI SOLDERING STATIONS

**PX-501AS/501** ..... 27

MINI SOLDERING STATIONS

**PX-601AS/601** ..... 27

## SOLDERING IRONS REPLACEMENT TIPS 28-30

**RX-89HRT SERIES** ..... 28

**RX-85HRT SERIES** ..... 28

**RX-85HSRT SERIES** ..... 28

**RX-81HRT SERIES** ..... 28

**RX-80HRT SERIES** ..... 28

**RX-80HRT-PH SERIES** ..... 29

**PX-60RT SERIES** ..... 30

**FA SERIES** ..... 30

## SOLDERING IRONS TEMPERATURE-CONTROLLED 32-33

TEMPERATURE-CONTROLLED SOLDERING IRON

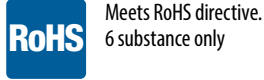
**PX-280** ..... 32

FIXED-TEMPERATURE SOLDERING IRONS

**PX-335/338/342** ..... 33

TEMPERATURE-CONTROLLED SOLDERING IRON

**PX-201/401** ..... 33



## SOLDERING IRONS HIGH-EFFICIENCY 34-35

PRECISION-COMPONENT MOUNTING-BOARD SOLDERING IRONS

**CXR-31/41** ..... 34

HIGH-POWER SOLDERING IRON

**CXR-100** ..... 34

QUICK-HEAT SOLDERING IRONS

**TQ-77/95** ..... 35

PRECISION PCB SOLDERING IRONS

**CS-21/31** ..... 35

## SOLDERING IRONS NICHROME HEATER 36-39

GENERAL ELECTRONICS SOLDERING IRONS

**KS-20R/30R/40R/60R/80R/100R** ..... 36

**KX-20R/30R/40R/60R/80R/100R** ..... 36

DUAL-POWER SOLDERING IRONS

**KYP-60/70** ..... 37

PORTABLE SOLDERING IRON WITH CAP

**CA-30R/40R** ..... 37

LOW-VOLTAGE SOLDERING IRONS

**MI-6-6V/MI-6-12V** ..... 37

SHEET-METAL SOLDERING IRONS

**HP-150/200/300** ..... 38

RED TIPS / BLACK TIPS

**R/RD/RB SERIES** ..... 39

COPPER TIPS

**T SERIES** ..... 39

## SOLDERING IRONS PORTABLE TYPE 40-42

GAS-POWERED **PORTASOL SUPER PRO**

**GP-501** ..... 40

GAS-POWERED **PORTASOL PRO PIEZO**

**GP-510** ..... 41

GAS-POWERED **PORTASOL PRO PIEZO SET**

**GP-510SET** ..... 41

BATTERY-POWERED SOLDERING IRON

**MSD-40** ..... 42

BATTERY-POWERED SOLDERING IRON

**MSD-20** ..... 42

USB-POWERED SOLDERING IRON

**MSD-5** ..... 42

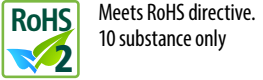
## SOLDERING IRONS STAINED-GLASS 43

TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON

**HRC-401** ..... 43

STAINED-GLASS SOLDERING IRON

**HRC-100** ..... 43



## AUTOMATIC SOLDER FEEDER 44-47

V-GROOVE AUTOMATIC SOLDER FEEDER

**FD-180** ..... 44

V-GROOVE AUTOMATIC SOLDER FEEDER

**FD-120** ..... 46

AUTOMATIC SOLDER FEEDER

**FD-100** ..... 46

## SOLDERING TESTER TIP THERMOMETER 48-49

TIP THERMOMETER

**TM-100** ..... 48

SENSOR UNIT

**TM-100SU** ..... 48

SOLDERING TESTER

**TM-200** ..... 49

## SOLDER POTS 50-51

SOLDER POTS

**POT-21C/23C/28C/50C** ..... 50

PCB DIPPING HOLDER

**PCB-1** ..... 50

SOLDER POTS

**POT-400C/203C/200C/103C/100C** ..... 51

## SURFACE-MOUNT/SMT PRODUCTS 52-57

SMT REWORK REPAIR SYSTEMS

**GSR-302** ..... 52

**GSR-301/300/110** ..... 53

REBALL KIT

**XRB SERIES** ..... 53

HOT-AIR REWORK STATIONS

**XFC-301/300/110** ..... 54

HANDPIECE HOLDER

**XK-1/2** ..... 56

BOARD HOLDERS

**XU-1/XU-1S** ..... 56

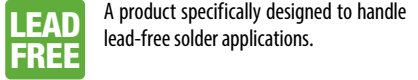
PREHEATER

**XPR-610/620/1000** ..... 56

SOLDERING TWEEZERS

**XST-80** ..... 57

**XST-80G** ..... 57



## DESOLDERING PRODUCTS 58-63

SERVICE STATION	
<b>SVS-800AS</b> .....	58
<b>SVS-580AS</b> .....	58
AUTOMATIC DESOLDERING STATION	
<b>TP-280AS</b> .....	60
PORTABLE DESOLDERING GUNS	
<b>TP-100/100AS</b> .....	60
DESOLDERING WICKS	
<b>CP SERIES</b> .....	62
DESOLDERING SUCKERS	
<b>GS SERIES</b> .....	63

## SOLDERING ACCESSORIES 64-68

TIP RECOVERY	
<b>ST-45</b> .....	64
TIP REFRESHER	
<b>BS-2</b> .....	64
STARTER KIT (ELECTRONICS)	
<b>SG-1</b> .....	64
TIP CLEANER	
<b>ST-30/70/40</b> .....	64
SOLDERING IRON STANDS	
<b>ST-11/75/75V/76/77/27</b> .....	65
SOLDERING TWEEZERS STAND	
<b>ST-28</b> .....	65
SOLDER REEL HOLDERS	
<b>ST-51/52/53</b> .....	65
PCB HOLDER	
<b>ST-200</b> .....	66
MINI WORKSTAND	
<b>ST-94</b> .....	66
TWEEZERS STAND	
<b>ST-95</b> .....	66
MULTI CLAMP	
<b>ST-85</b> .....	66
MAGNIFIER	
<b>ST-93</b> .....	66
MINI VISE	
<b>ST-80</b> .....	66
ANTI-STATIC MATS	
<b>WD-13/WD-130</b> .....	67
SURFACE RESISTIVITY METER	
<b>WA-400</b> .....	67
WRIST STRAPS	
<b>WS-11/ 12</b> .....	67
LOW-DUST GLOVES	
<b>WG SERIES</b> .....	67
AIR PURIFYING TYPE FUME VACUUM	
<b>SS-80AS</b> .....	68

## SOLDERING WORK MATERIALS 68-69

SOLDERING PASTES	
<b>BS-10/15</b> .....	68
SOLDERING PASTES	
<b>BS-850</b> .....	68
ANTI-SEIZE	
<b>BS-H20B</b> .....	68
TIP REFRESHER	
<b>BS-2</b> .....	68
LEAD-FREE SOLDERS	
<b>SF-A SERIES</b> .....	69
LEAD-FREE SILVER-FREE SOLDERS (SPOOLLESS)	
<b>SF-C/7 SERIES</b> .....	69
LEAD-FREE HALOGEN-FREE SOLDERS	
<b>SF-N SERIES</b> .....	69
LEAD-BASED SOLDERS	
<b>SE SERIES</b> .....	69
LEAD-BASED SOLDERS (SPOOLLESS)	
<b>SE-7 SERIES</b> .....	69
SOLDERS BY USE (SPOOLLESS)	
<b>SD-101/SD-8 SERIES</b> .....	69

## HEATED TOOLS 70-71

HOT BOND	
<b>HB-80</b> .....	70
MINI HOT BOND	
<b>HB-45</b> .....	70
HOT STICKS	
<b>HB-150S-RS/300S-5KRS</b> .....	70
HOT STICKS	
<b>HB-100S/200S SERIES</b> .....	70
HOT STICKS	
<b>HB-40S SERIES</b> .....	70
HOT SLICER	
<b>HE-110</b> .....	70
HOT KNIVES	
<b>HOT-30R/60R</b> .....	71
4-BATTERY FOAM CUTTER	
<b>SC-10</b> .....	71
USB-POWERED STYROFOAM CUTTER	
<b>SC-5</b> .....	71

## HAND TOOLS 72-77

HEAT CLIPS	
<b>H-1S/1L/2SL</b> .....	72
SOLDER ASSIST	
<b>SA-10</b> .....	72
PRECISION TWEEZERS	
<b>TS SERIES</b> .....	73
MAINTENANCE TOOL SETS	
<b>TL-10/20</b> .....	73
AIR-POWERED DEPANELING TOOL	
<b>YN-300</b> .....	74
MANUAL DEPANELING TOOL	
<b>YN-210AS/215AS/220AS</b> .....	74
HOBBY HAND TOOLS	
<b>YN/YP SERIES</b> .....	74
PRECISION NIPPERS	
<b>YN SERIES</b> .....	75
PRECISION PLIERS	
<b>YP SERIES</b> .....	76
WIRE STRIPPER/CABLE STRIPPERS	
<b>YS SERIES</b> .....	77



A product which is manufactured using anti-static materials.



Material Safety Data Sheet available.



Meets EC directives.

# PRODUCTS POWER CONSUMPTION AND SAFETY STANDARD

MODEL	Voltage	Power Consumption	CE	Argentina	Australia
<b>CS-21</b>	110 V, 220 V	20 W			
<b>CS-21/22</b>	220 V	18-19 W	✓		
<b>CS-31</b>	110 V, 120 V, 220 V, 240 V	25 W			
<b>CS-31/22</b>	220 V	20-21 W	✓		
<b>CS-31/24</b>	230-240 V	20-21 W	✓		
<b>CXR-31</b>	110 V, 120 V, 220-230 V	22 W			
<b>CXR-31/22</b>	220-230 V	18-19 W	✓		
<b>CXR-41</b>	120 V, 220-230 V, 240 V	30 W			
<b>CXR-41/22</b>	220-230 V	20-21 W	✓		
<b>CXR-41/24</b>	230-240 V	20-21 W	✓		
<b>CXR-100</b>	110-120 V, 220-240 V	38 W			
	220-240 V	37-42 W	✓		
<b>FD-100</b>	100-240 V	8 W	✓		
<b>HP-150</b>	110 V, 120 V, 220 V, 240 V	110 W			
<b>HP-200</b>	110 V, 120 V, 220 V, 240 V	150 W			
<b>HP-300</b>	110 V, 120 V, 220 V, 240 V	200 W			
<b>KS-20R</b>	110 V, 120 V, 220 V	23 W			
	240 V	19 W			
<b>KS-20R/22</b>	220-230 V	23-29 W	✓	✓	
<b>KS-20R/24</b>	230-240 V	18-22 W	✓		
<b>KS-30R</b>	110 V, 120 V, 220 V, 240 V	28 W			
<b>KS-30R/22</b>	220-230 V	30-33 W	✓	✓	
<b>KS-30R/24</b>	230-240 V	27-30 W	✓		
<b>KS-40R</b>	110 V, 120 V, 220 V, 240 V	35 W			
<b>KS-40R/22</b>	220-230 V	34-42 W	✓	✓	
<b>KS-40R/24</b>	230-240 V	31-38 W	✓		
<b>KS-60R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KS-60R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KS-60R/24</b>	230-240 V	42-49 W	✓		
<b>KS-80R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KS-80R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KS-80R/24</b>	230-240 V	42-49 W	✓		
<b>KS-100R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KS-100R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KS-100R/24</b>	230-240 V	42-49 W	✓		
<b>KX-20R</b>	110 V, 120 V, 220 V	23 W			
	240 V	19 W			
<b>KX-20R/22</b>	220-230 V	23-29 W	✓	✓	
<b>KX-20R/24</b>	230-240 V	18-22 W	✓		
<b>KX-30R</b>	110 V, 120 V, 220 V, 240 V	28 W			
<b>KX-30R/22</b>	220-230 V	30-33 W	✓	✓	
<b>KX-30R/24</b>	230-240 V	27-30 W	✓		
<b>KX-40R</b>	110 V, 120 V, 220 V, 240 V	35 W			
<b>KX-40R/22</b>	220-230 V	34-42 W	✓	✓	
<b>KX-40R/24</b>	230-240 V	31-38 W	✓		
<b>KX-60R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KX-60R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KX-60R/24</b>	230-240 V	42-49 W	✓		
<b>KX-80R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KX-80R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KX-80R/24</b>	230-240 V	42-49 W	✓		
<b>KX-100R</b>	110 V	41 W			
	120 V, 220 V, 240 V	45 W			
<b>KX-100R/22</b>	220-230 V	45-54 W	✓	✓	
<b>KX-100R/24</b>	230-240 V	42-49 W	✓		

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

SOLDERING SYSTEM

SOLDERING IRONS

AUTOMATIC SOLDER FEEDER

SOLDERING TESTER TIP THERMOMETER

SOLDER POTS

SURFACE-MOUNT / SMT PRODUCTS

DESOLDERING PRODUCTS

SOLDERING ACCESSORIES

SOLDERING WORK MATERIALS

HEATED TOOLS

HAND TOOLS

# PRODUCTS POWER CONSUMPTION AND SAFETY STANDARD

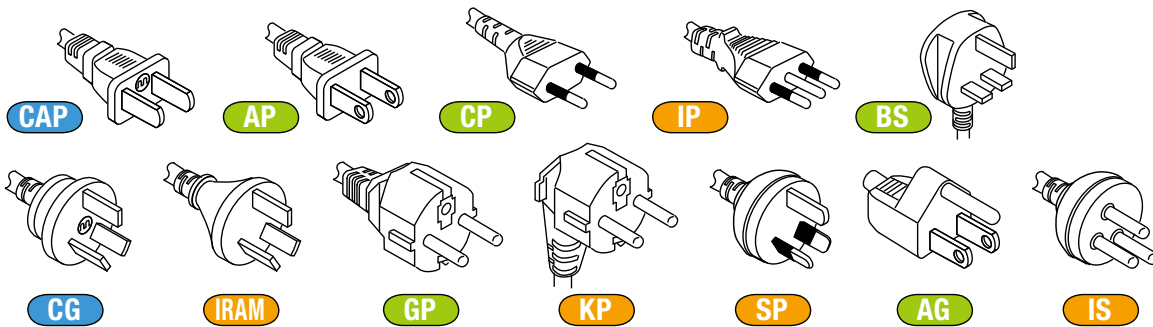
MODEL	Voltage	Power Consumption	CE	Argentina	Australia
<b>TM-200</b>	100-240 V		✓		
<b>TP-100</b>	110-120 V	80 W			
	220-240 V	70-75 W			
	220-240 V	70-75 W	✓	✓	
<b>TP-100AS</b>	110-120 V	80 W			
	220-240 V	70-75 W			
	220-240 V	70-75 W	✓	✓	
<b>TQ-77</b>	110-120 V	Low: 15W/High: 150 W			
	220-240 V	Low: 20W/High: 200 W			
	220-240 V	32-35 W	✓	✓	
<b>TQ-95</b>	110-120 V	Low: 15W/High: 150 W			
	220-240 V	Low: 20W/High: 200 W			
	220-240 V	32-35 W	✓	✓	

## KOREA

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

## AVAILABLE PLUGS

Some plug types are not compatible with some products.  
 Before ordering, please check with your nearest distributor.



Plug Type	Applicable Voltage	Country / Area
CAP	220 V	China
AP	110-220 V	Asia
CP	220-240 V	Asia
IP	220 V	Italy / Chile
BS	220-240 V	Hong Kong / UK
CG	220 V	China

Plug Type	Applicable Voltage	Country / Area
IRAM	220 V	Argentina
GP	220-240 V	Europe
KP	220 V	Korea
SP	240 V	Australia / New Zealand
AG	110-240 V	Asia
IS	220-240 V	Israel

## SOLDERING SYSTEMS

- CONTROL UNITS
- SOLDER FEEDER UNITS
- SOLDERING UNITS
- DIAGONAL DRIVERS
- SOLDER REEL HOLDERS
- TIP CLEANERS



A NEW model to your needs

### Desktop Soldering System FA-1100series



Solder Feeder Unit  
FA-1100FD

Integrated reel holder for easy replacement of consumables, and maintenance.

Soldering Unit  
FA-1100SD

Direction of solder supply to the tip can be changed. ( $\pm 30^\circ$ )

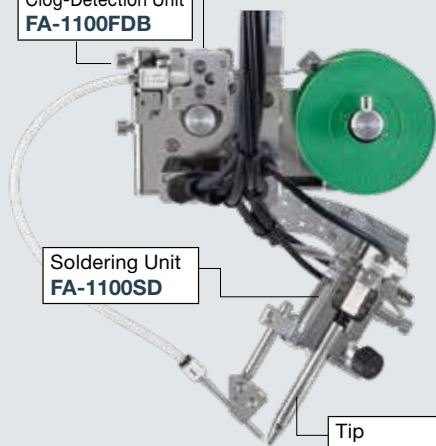
Control Unit  
FA-1000

#### HEAD

V-Groove Unit  
FA-1100VU

Clog-Detection Unit  
FA-1100FDB

Rotating



Soldering Unit  
FA-1100SD

Tip  
FA-10HRT

Solder Feeder Unit  
FA-1100FD-V

Integrated design for easy replacement of consumables, and maintenance.

Air Blow Cleaner  
FA-1100CL

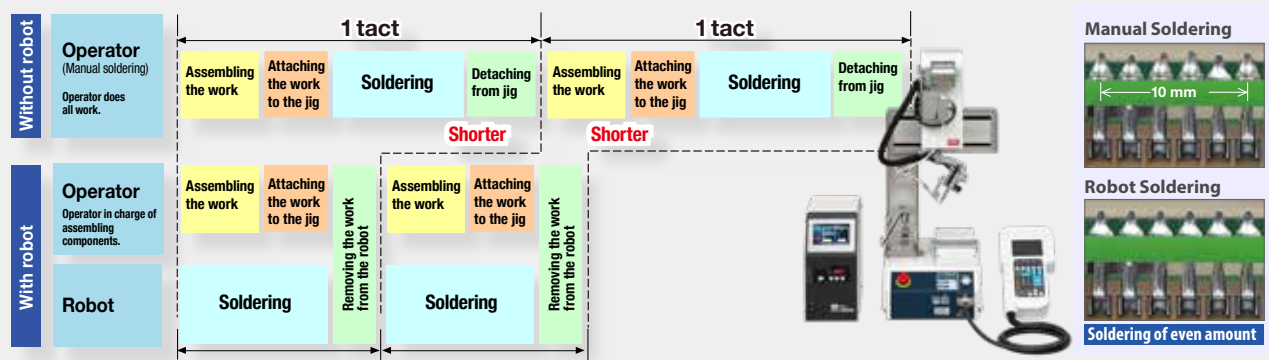
Structure prevents solder dust from coming out during cleaning. Dust catcher alone may be removed. Nozzle will not shift position after cleaning.

Setup Example



# BETTER & FASTER

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



Lower Costs, Higher Efficiency, Higher Quality



## Desktop Soldering System FA-1000 series

**HEAD**

- Soldering Unit FA-1000SD
- Solder Feeder Unit FA-1000FD
- Digital Driver FA-1000SL

**CONTROL UNIT** (Common to FA-1000 and FA-1100)

- Easy Touch Panel**  
English, Japanese, Chinese and Spanish.
- Memory Card Function (optional)**  
Multiple uses are easy and copiable by saving the data to the memory card.
- Up to 6 Tip Temperature Settings**  
Different tip temperatures can be set for each soldering.
- Tip Temperature Monitor (optional)**  
Shows analog voltage of 1-5 V of the tip temperature. Connecting to a data logger (on the market) helps to control the soldering temperature.

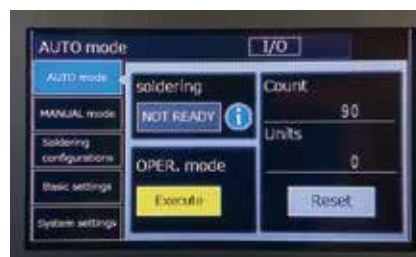
### Common features of FA-1100 and 1000 series

- 150W integrated heater gives both accurate tip temperatures and lower running costs.
- Compact sensor eliminates direct heat from heater.
- Tight heater coil and tip sensor slash rise and recovery times.
- We make our tips in-house. Japanese quality and we can meet your needs.
- N<sub>2</sub> soldering is available.

### Control Unit FA-1000

(Common to FA-1000 and FA-1100)

#### Touch Panel



- Large color touch-panel for better visibility and operability.
- Available in Japanese, English, Chinese, and Spanish.

## Sample Desktop Robot Configurations

### FA-1100 Unit Mounted Model

- Easy teaching by dedicated soldering program.
- Easy-to-operate Teaching Pendant.
- 999 programs can be registered.
- Data can be output via LAN or MEMORY port. (Optional PC software is required.)



FA-3204A (200 x 200 mm)

FA-3304A (300 x 320 mm)

FA-3404A (400 x 400 mm)

### FA-1100 Unit Mounted Model Specifications

MODEL		JANOME 4-axis		
		FA-3204A	FA-3304A	FA-3404A
Shape		Cantilever type	Gate type	Cantilever type
	X, Y-axis	200 mm × 200 mm	300 mm × 320 mm	400 mm × 400 mm
Operating Range	Z-axis	50 mm	100 mm	100 mm
	R-axis	(-)120-(+)120° (Initial value)		
	Height from tip to X Axis stage	101 mm	115 mm	
Maximum Speed	X, Y-axis	700 mm/s	900 mm/s	
	Z-axis	250 mm/s	400 mm/s	
	R-axis	600°/s	900°/s	
	Repeatability	X, Y, Z-axis	±0.01 mm	
	R-axis	±0.008°		
Teaching Method		Teaching Pendant or PC		
Program Capacity		999		
Maximum Soldering Points		32,000		

### Solder Feeder Unit FA-1100FD

Solder Diameter	φ0.5, φ0.6 (φ0.65), φ0.8, φ1.0, φ1.2 mm
-----------------	---

### Soldering Unit FA-1100SD

Length	135 mm (Soldering Unit only)
Weight	Approx. 370 g (Soldering Unit only)
Heater Voltage / Power	24 V / 150 W

### FA-1000 Unit Mounted Model

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



### FA-1000 Unit Mounted Model Specifications

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

### Solder Feeder Unit FA-1000FD

Solder Diameter	φ0.5, φ0.6 (φ0.65), φ0.8, φ1.0, φ1.2, φ1.6 mm
-----------------	---

### Soldering Unit FA-1000SD

Length	145 mm
Weight	Approx. 950 g (Solder Feeder Unit included)
Heater Voltage / Power	24 V / 150 W

### Specifications

Control Unit FA-1000 (Common to FA-1000 and FA-1100)	Rated Voltage	110–120 V, 220–240 V AC 50/60 Hz
	Power Consumption	170–200 W
	Dimensions	140 (W) x 280 (H) x 240 (D) mm
	Weight	8.6 kg
	Number of Soldering Programs	256 programs
	Tip Temperature Range	50–450°C
	Tip Temperature Preset	6 settings
	Input Air Pressure	0.4–0.5 MPa

**Example of customization**

**Dual Head Configuration**



You can use two different types of tips and solder in one program.

**Positioning Camera (Optional)**



Easy detection and correction of tip position.

**Other Available Robots**

**Collaborative Robot DENSO WAVE COBOTTA**



Take a spare robot, and Make a soldering robot!



**Collaborative Robot TECHMAN ROBOT**



Take an off-the shelf, single-axis robot, Make an automatic line!



Dual-Arm SCARA Robot Kawasaki DuAro

**REPLACEMENT TIPS**

FA-10HRT-1.6D	FA-10HRT-2.4D	FA-10HRT-3.2D	FA-10HRT-1.6SD	FA-10HRT-3.2SD	FA-10HRT-3.2DV

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]



500 W Ultra high power soldering station **RX-892AS**

p.14

Pictured tips not included.

## Solutions for high-capacity parts and sheet metal!

Iron Unit  
500W



RX-89GAS

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

## 150 W Excellent heat recovery station **RX-852AS**

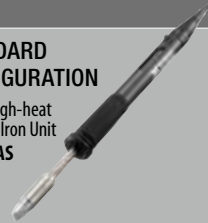
p.16



Pictured tips not included.

### STANDARD CONFIGURATION

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



Can support p.20  
36 W micro-soldering iron

**RX-81GAS**  
(Sold separately)



Can support p.18  
80 W standard iron unit

**RX-80GAS**  
(Sold separately)



Can support p.57  
hot tweezers

**XST-80G**  
(Sold separately)



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

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

p.18



Pictured tips not included.

### STANDARD CONFIGURATION

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



Can support p.20  
36 W micro-soldering iron

**RX-81GAS**  
(Sold separately)



Can support p.57  
hot tweezers

**XST-80G**  
(Sold separately)



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

## Soldering Tester / Tip Thermometer p.48



TM-100



TM-200

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

The sensor's structure makes for easy tip placing. It achieves stable & accurate measuring within seconds, regardless of shape, or angle of tip. Easily replaceable sensor.

## Automatic Solder Feeder FD series p.44



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

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

Solder feed method for reducing solder clogs.

## 150 W / 80 W Dual-port soldering station RX-822AS *2 soldering irons can be used.*

p.22



Pictured tips not included.

### STANDARD CONFIGURATION

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



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

Can support p.20  
36 W micro-soldering iron

**RX-81GAS**  
(Sold separately)



Can support p.18  
80 W standard iron unit

**RX-80GAS**  
(Sold separately)

Cannot support double 150 W irons.



Can support hot tweezers p.57

**XST-80G**  
(Sold separately)



Applicable tips (Standard Configuration)

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

## Solder or desolder small parts in small space RX-812AS p.20



Pictured tips not included.

### STANDARD CONFIGURATION

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



Can support p.18  
80 W standard iron unit

**RX-80GAS**  
(Sold separately)



Can support hot tweezers p.57

**XST-80G**  
(Sold separately)



Applicable tips (Standard Configuration)

**RX-80/81HRT series**

## Nitrogen improves solder wetting and fillet shape RX-802ASPH *A Nitrogen gas generator is required.*

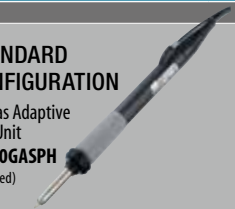
p.24



Pictured tips not included.

### STANDARD CONFIGURATION

N2 Gas Adaptive Iron Unit  
**RX-80GASPH**  
(included)



Can support p.20  
36 W micro-soldering iron

**RX-81GAS**  
(Sold separately)

cannot be used as a N2 soldering iron.



Can support p.18  
80 W standard iron unit

**RX-80GAS**  
(Sold separately)



Can support hot tweezers p.57

**XST-80G**  
(Sold separately)



cannot be used as a N2 soldering iron.

Applicable tips (Standard Configuration)

**RX-80HRTPH series**

### Handpiece Grip Rubber (Anti-static)



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

### Soldering Iron Stand Sponge/Cleaner

#### ST-53SP

Space-saving compact package



p.65

ST-40BW

### Soldering Tweezers Stand



p.65

ST-28

### N2 Station NC-100R

p.25



Maintains a stable output pressure (0.2 Mpa).

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

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]

Trouble with heavy-duty and high-capacity parts?

## ULTRA HIGH POWER TEMPERATURE CONTROLLED SOLDERING STATION RX-892AS



### World-Beating 500 W

World's only 500 W station with digital temperature control

\*Based on original research.

### 100 V - 240 V Applicable

Good for many voltages



Shielded boxes and cases

Thick cable parts

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.



Tip not included.

## Unprecedented Tip-Temperature Recovery Features

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

## Multi-Voltage

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

## Revolutionary Functions

Advanced intelligent features in standard installation.

### Time to Presolder 22 mm<sup>2</sup> Cable

**RX-852AS** (Our High Watt Station)

32s

**RX-892AS** (This Model)

16s



## Grip is Light and Nimble

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

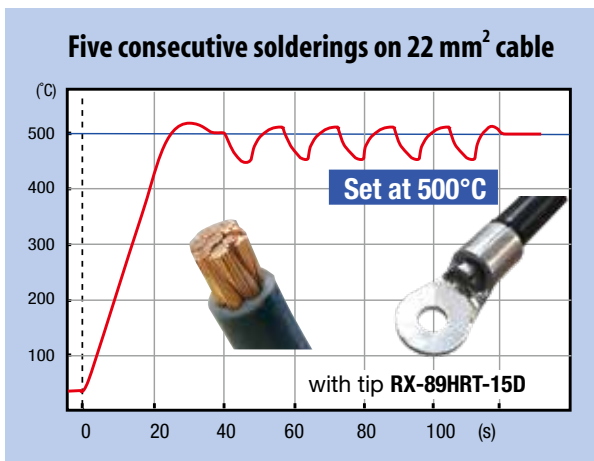


## INCLUDED



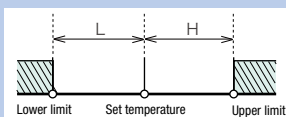
## PRODUCT SPECIFICATIONS / FUNCTIONS

### TIP-TEMPERATURE RECOVERY FEATURES



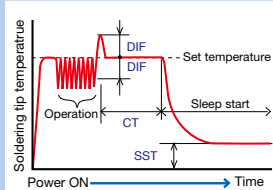
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

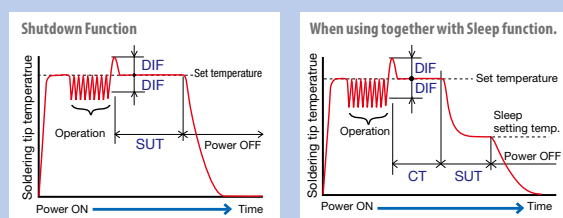


#### SLEEP FUNCTION RELEASE (PAT.)

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

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

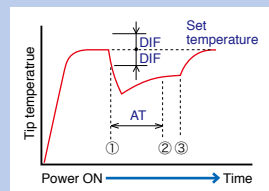
### SHUTDOWN FUNCTION



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

### SOLDERING ALARM FUNCTION (PAT.)

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



#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

### SPECIFICATIONS

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

### CONTROL UNIT

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

### IRON UNIT

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

\*The length does not include the cord bushing. The weight does not include the cord.  
 Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 28

## REPLACEMENT PARTS / OPTIONS

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

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



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



Tip not included.

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

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

### Excellent Heat Recovery (PAT.)



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

### Thick Tip Coating for Lead-free Soldering

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

### RX-80/81HRT Tips also Available

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



### Fastest in Its Class

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

### Light and Compact Handpiece

Same size as the RX-80GAS.

### Tip Replacement without Tools (PAT.)

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

### HOW TO CHANGE TIPS

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



### INCLUDED

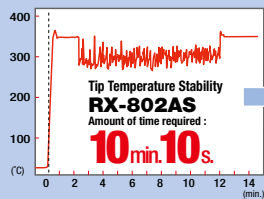
Control Unit	Iron Unit RX-85GAS	Soldering Iron Stand ST-22
	 Tip is not included	 Brass Wool & Sponges included



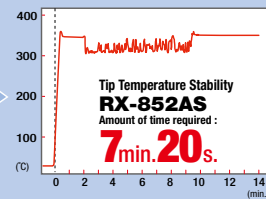
## PRODUCT SPECIFICATIONS / FUNCTIONS

### TIP-TEMPERATURE RECOVERY FEATURES

**Soldering efficiency increased by 39%!**



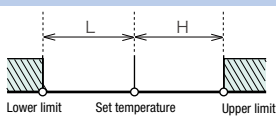
A generous amount of lead-free solder on a land of 20 mm dia. dissolving 35 points in succession at 350°C.



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

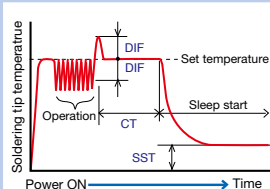
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

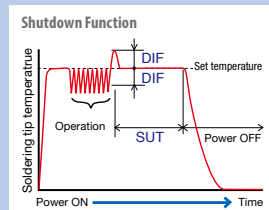


#### SLEEP FUNCTION RELEASE (PAT.)

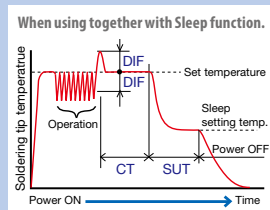
Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

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

### SHUTDOWN FUNCTION

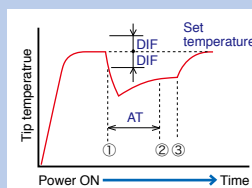


When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.



### SOLDERING ALARM FUNCTION (PAT.)

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



#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

#### NEW ERGONOMIC GRIP (PAT.)

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

### SPECIFICATIONS

MODEL	RX-852AS
Voltage	110-120 V, 220-240 V AC 50/60 Hz
Power Consumption	145-170 W
Power Cord Length	1.5 m inlet type
Temperature Setting Range	50-450°C
Ripple Temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	150 W High-heat-capacity Iron Unit <b>RX-85GAS</b> (included) 80 W Standard Iron Unit <b>RX-80GAS</b> (sold separately) Micro-Iron Unit <b>RX-81GAS</b> (sold separately) Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit ( <b>RX-85GAS</b> ) Soldering Iron Stand ( <b>ST-22</b> )

### CONTROL UNIT

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

### IRON UNIT

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

\*The length does not include the cord bushing. The weight does not include the cord.  
Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 28 & p. 29

For Soldering Tweezers XST-80G, refer to p. 57

## REPLACEMENT PARTS / OPTIONS

RX-852AS Iron Unit  
**RX-85GAS**



Tip is not included

RX-802AS Iron Unit  
**RX-80GAS**



Tip is not included

RX-812AS Iron Unit  
**RX-81GAS**



Tip is not included

Soldering Iron Stand Sponge  
**ST-53SP**



Soldering Iron Stand Cleaner  
**ST-40BW**



(2pcs/set)

Flux Guard Rubber  
**RX-80P**



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

For quick identification of soldering tasks or types.

**RX-80RB** : gray

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

**RX-80RB-BK** : black

**RX-80RB-OR** : orange



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



with RX-80P



with RX-80RB

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]

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



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



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

Tip not included.

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

### Excellent Heat Recovery (PAT.)

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

### Fastest in Its Class

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

### Tip Replacement without Tools (PAT.)

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

### Reduced Grip Heat (PAT.)

Patented thermal-insulation grip permits comfortable and safe work.

### Thick Tip Coating for Lead-free Soldering

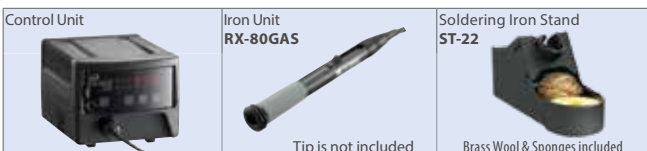
All tips have extra-thick iron plating, to resist erosion by lead-free solder.

### HOW TO CHANGE TIPS

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



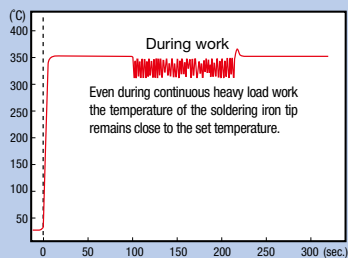
## INCLUDED



## PRODUCT SPECIFICATIONS / FUNCTIONS

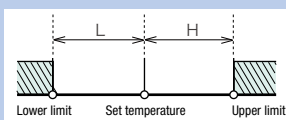
### TIP-TEMPERATURE RECOVERY FEATURES

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



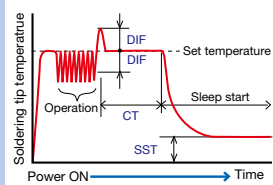
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

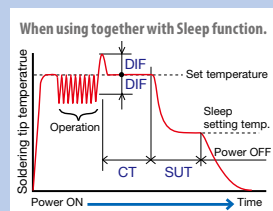
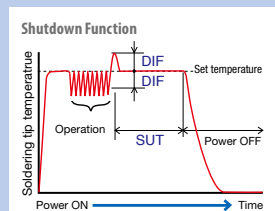


#### SLEEP FUNCTION RELEASE (PAT.)

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

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

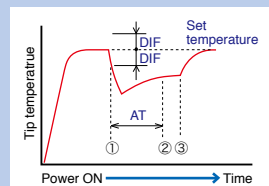
### SHUTDOWN FUNCTION



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

### SOLDERING ALARM FUNCTION (PAT.)

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



#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

#### NEW ERGONOMIC GRIP (PAT.)

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

### SPECIFICATIONS

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

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

\*The length does not include the cord bushing. The weight does not include the cord.  
 Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 28

For Soldering Tweezers XST-80G, refer to p. 57

## REPLACEMENT PARTS / OPTIONS

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

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

For quick identification of soldering tasks or types.

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



with RX-80P



with RX-80RB

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

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]

Solder or desolder small parts in small spaces.



## TEMPERATURE-CONTROLLED LEAD-FREE MICRO SOLDERING STATION RX-812AS

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



**VERY THIN GRIP**  
Improved handling and visibility.

Tip not included.

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

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

### Ergonomic Grip Design

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

### Fastest in Its Class

Reaches set temperature within 4 seconds after turning power on.

### Wide Variety of Replacement Tips

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

### Tip Replacement without Tools (PAT.)

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

### Thick Tip Coating for Lead-free Soldering

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



### HOW TO CHANGE TIPS

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



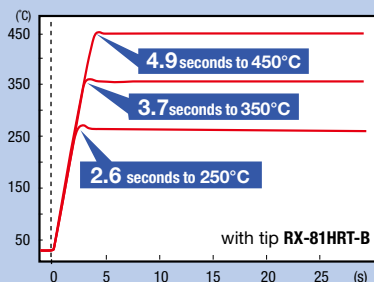
### INCLUDED



## PRODUCT SPECIFICATIONS / FUNCTIONS

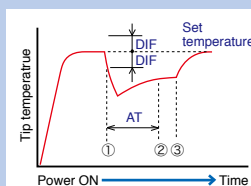
### HEATING

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



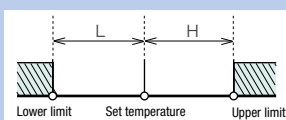
### SOLDERING ALARM FUNCTION (PAT.)

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



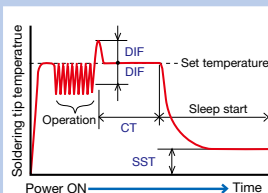
### HIGH/LOW TEMPERATURE ALARM

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.

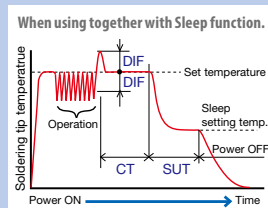
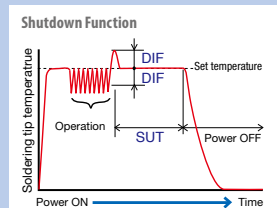


#### SLEEP FUNCTION RELEASE (PAT.)

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.

### SPECIFICATIONS

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

### CONTROL UNIT

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

### IRON UNIT

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

\*The length does not include the cord bushing. The weight does not include the cord.  
 Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 28

For Soldering Tweezers XST-80G, refer to p. 57

## REPLACEMENT PARTS / OPTIONS

Micro Iron Unit <b>RX-81GAS</b>  Tip is not included	80 W Iron Unit <b>RX-80GAS</b>  Tip is not included	Soldering Iron Stand Sponge <b>ST-53SP</b> 	Soldering Iron Stand Cleaner <b>ST-40BW</b>  (2pcs/set)
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### Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

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



with RX-80RB

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

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]

2 soldering irons can be used.



## TEMPERATURE-CONTROLLED, LEAD-FREE, DUAL-PORT SOLDERING STATION RX-822AS



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

Tips not included.

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

### 2 Soldering Irons can Be Used

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



### Individual Temperature Setting

Independent displays make settings clear.



### Enables Reworking of Chip Parts

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

### Advanced Functions (PAT.)

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

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

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

### Wide Variety of Tips





More than 50 tips are available.

### HOW TO CHANGE TIPS

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



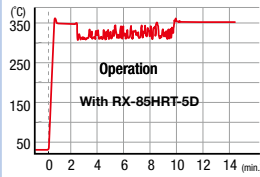
### INCLUDED

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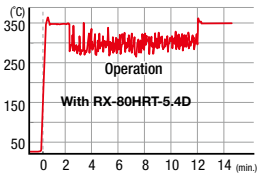
## PRODUCT SPECIFICATIONS / FUNCTIONS

### TIP-TEMPERATURE RECOVERY FEATURES

**TIP1**



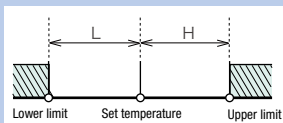
**TIP2**



A generous amount of lead-free solder on a land of 20x20 mm dissolving 35 points in succession at 350°C.

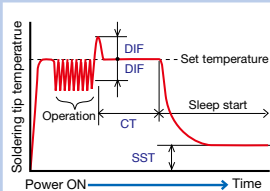
### HIGH/LOW TEMPERATURE ALARM

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



### INTELLIGENT SLEEP FUNCTION (PAT.)

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

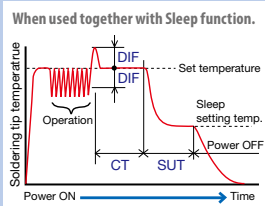
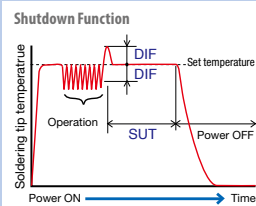


#### SLEEP FUNCTION RELEASE (PAT.)

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

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

### SHUTDOWN FUNCTION



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

#### KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

#### CALIBRATION (PAT.)

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

#### NEW ERGONOMIC GRIP (PAT.)

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

### SPECIFICATIONS

MODEL	RX-822AS
Voltage	110-120 V, 220-240 V AC 50/60 Hz
Power Consumption	220-260 W
Power Cord Length	1.5 m inlet type
Temperature Setting Range	50-450°C
Insulation Resistance	Over 100 MΩ (500 V DC)
Ripple Temperature	± 5°C (unloaded)
Applicable Iron Units	150 W High-heat-capacity Iron Unit <b>*RX-85GAS</b> (included)
	80 W Standard Iron Unit <b>RX-80GAS</b> (included)
	Micro-Iron Unit <b>RX-81GAS</b> (sold separately)
	Soldering Tweezers Unit <b>XST-80G</b> (sold separately)
Accessories	Iron Unit ( <b>RX-85GAS</b> , <b>RX-80GAS</b> ) Soldering Iron Stand ( <b>ST-22</b> ) × 2

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

#### CONTROL UNIT

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

#### IRON UNIT

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

\*The length does not include the cord bushing. The weight does not include the cord.  
 Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 28 & p. 29

For Soldering Tweezers XST-80G, refer to p. 57

## REPLACEMENT PARTS / OPTIONS

RX-852AS Iron Unit  
**RX-85GAS**



Tip is not included

RX-802AS Iron Unit  
**RX-80GAS**



Tip is not included

RX-812AS Iron Unit  
**RX-81GAS**



Tip is not included

Soldering Iron Stand Sponge  
**ST-53SP**



Soldering Iron Stand Cleaner  
**ST-40BW**



(2pcs/set)

Flux Guard Rubber  
**RX-80P**



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

For quick identification of soldering tasks or types.

**RX-80RB** : gray

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

**RX-80RB-BK** : black

**RX-80RB-OR** : orange



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



with RX-80P



with RX-80RB

# SOLDERING IRONS [LEAD-FREE TEMPERATURE-CONTROLLED]

Nitrogen improves solder wetting and fillet shape.

**NOTE** Preheat effect cannot be achieved by the RX-802ASPH alone. A Nitrogen gas generator is required. We recommend our NC-100R N<sub>2</sub> station.

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



Tip not included.

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

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

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

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



### Slim N2 Nozzles

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

### Light and Easy-to-use Handpiece

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

### Flexible N2 Induction Tube

Super-flexible. Allows free maneuvering of handpiece.

### Special Tool for Easy Tip Replacement

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

### IMPROVING LEAD-FREE SOLDERING

#### Advantages of the Preheat Effect

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

#### Advantages of Preheating with Nitrogen

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

#### Normal soldering iron







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

#### Nitrogen soldering iron



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

### INCLUDED

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

### SPECIFICATIONS

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

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

The Iron Unit RX-80GAS / RX-81GAS / XST-80G cannot be used as an N<sub>2</sub> 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	2 Ω or less
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Gas Supply Pressure	0.2 MPa (2 kgf/cm <sup>2</sup> )
Cord Length	1.2 m
Length	158 mm (with RX-80HRT-PHB)
Weight	33 g (with RX-80HRT-PHB)

\*The length does not include the cord bushing. The weight does not include the cord.  
Equivalent to IPC/EIA J-STD-001C

For replacement tips, refer to p. 29

For Soldering Tweezers XST-80G, refer to p. 57

## REPLACEMENT PARTS / OPTIONS

RX-802ASPH Iron Unit <b>RX-80GASPH</b> Tip is not included  N <sub>2</sub> O-ring is included	RX-802AS Iron Unit <b>RX-80GAS</b> Tip is not included  Non-N <sub>2</sub> , also supported	RX-812AS Iron Unit <b>RX-81GAS</b> Tip is not included  Non-N <sub>2</sub> , also supported	N <sub>2</sub> O-ring <b>RX-80PHB</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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## A compact N<sub>2</sub> station combining N<sub>2</sub> generator and controller.

### N<sub>2</sub> STATION NC-100R



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

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



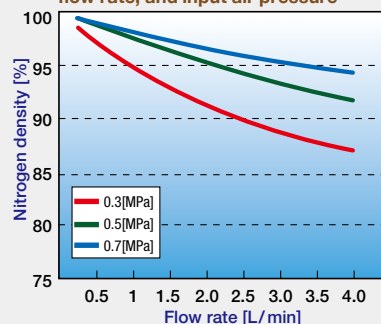
### SPECIFICATIONS

MODEL	NC-100R
Input Pressure	0.3–0.7 MPa
Input Temperature	5–50°C
Nitrogen Generation Density	99.5% or more (0.7 MPa, 0.5 L / min)
Recommended Nitrogen Generation Flow Rate	1.0 L / min
Flow Meter	0.5–4.0 L / min
Dimensions	118 (W) × 112 (H) × 185 (D) mm (not including protruding parts)
Weight	2 kg
Required Tube Dimension	Input: Outer diameter ø6 mm
	Output: Outer diameter ø4 mm

## NITROGEN GENERATION DENSITY

(According to in-house measuring method)

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



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

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



# SOLDERING IRONS [TEMPERATURE-CONTROLLED]

## TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS  
MINI SOLDERING 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.

RX-711AS



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

#### Comfortable Handpiece

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

#### Protective Cover

Prevents tampering.

#### INCLUDED



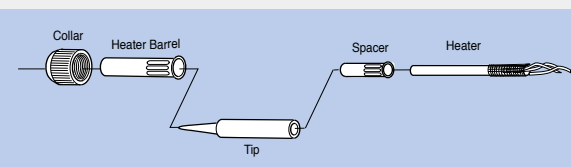
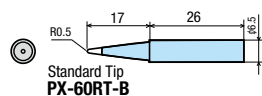
#### REPLACEMENT PARTS / OPTIONS

Heater <b>RX-72H</b>	Spacer <b>RX-72SS</b>
Heater Barrel <b>RX-72HP</b>	Iron Unit <b>RX-72GAS</b>
Collar <b>TQ-77NUT</b>	

#### REPLACEMENT TIPS

##### Wide Variety of Tips

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



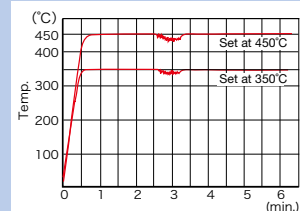
RX-711AS



RX-701AS

#### TIP-TEMPERATURE RECOVERY FEATURES

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



#### SPECIFICATIONS

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

#### CONTROL UNIT

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

#### IRON UNIT

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

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

Equivalent to IPC/EIA J-STD-001C

## High-performance soldering station.

### MINI SOLDERING STATIONS PX-501AS/PX-501



Temperature adjustable  
250-450°C

### Quick Start

Reaches set temperature fast with the Quick Start circuit.

### Temperature Calibration

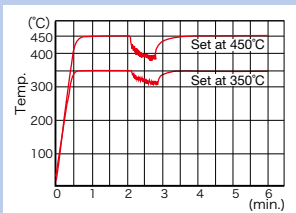
Accurate calibration.

### Leakage Current / Insulation-Resistance Measuring Terminal

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

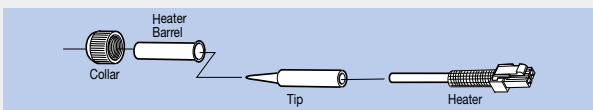
### TIP-TEMPERATURE RECOVERY FEATURES

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



### REPLACEMENT PARTS / OPTIONS

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



Recommended **ST-27** refer to page [p. 65](#)



ST-27

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

### MINI SOLDERING STATIONS PX-601AS/PX-601



Comes with  
protective cover

### 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 ( <b>PX-60RT-B</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	

### IRON UNIT

Voltage / Consumption	110 V, 220-240 V AC / 80 W		
Ground Resistance	2 Ω or less		
Leak Voltage	Less than 2 mV		
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> )		

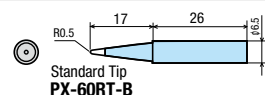
\*The length does not include the cord bushing. The weight does not include the cord.

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



### Wide Variety of Tips

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



# SOLDERING IRONS [REPLACEMENT TIPS]

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

Station	RX-892AS	RX-89HRT-15A	RX-89HRT-5BC	RX-89HRT-5D	RX-89HRT-10D	RX-89HRT-15D
Applicable Iron Unit	RX-89GAS					

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

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

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

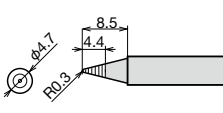
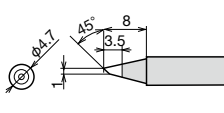
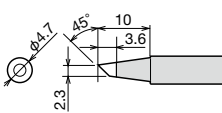
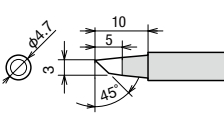
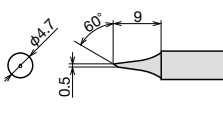
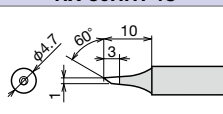
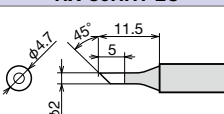
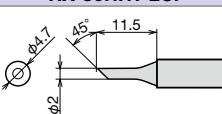
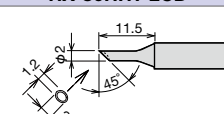
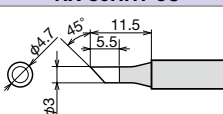
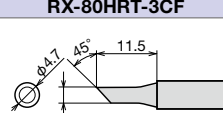
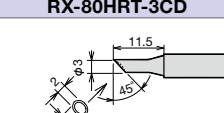
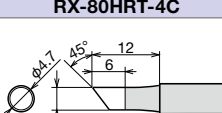
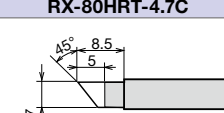
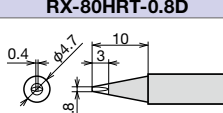
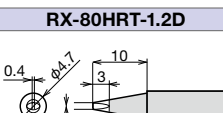
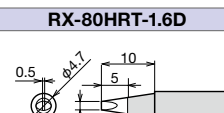
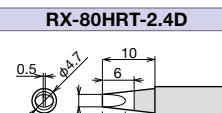
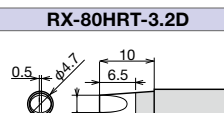
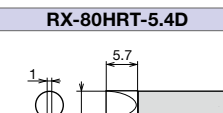
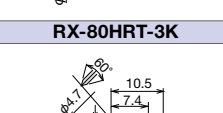
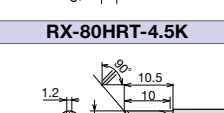
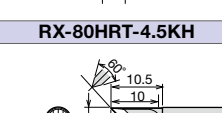
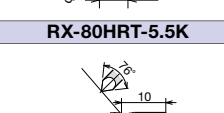
Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-85GAS	RX-85GAS	—	—	—

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

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

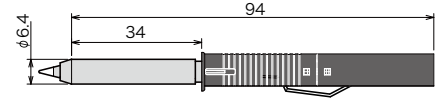
## RX-80HRT Series / Applicable Iron Unit (80 W Standard Iron Unit)

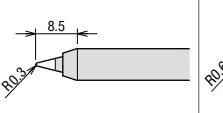
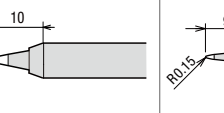
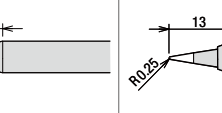
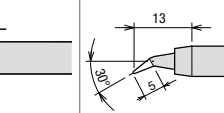
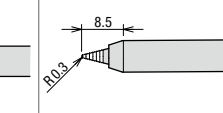

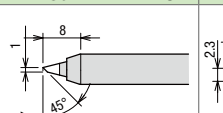
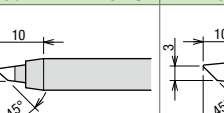
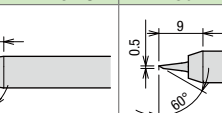
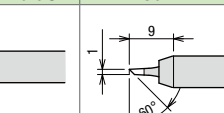
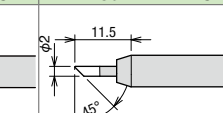

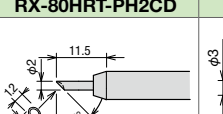
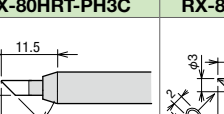
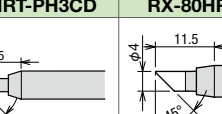
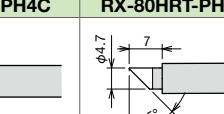
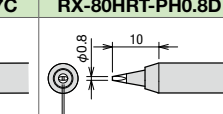

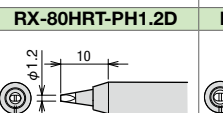
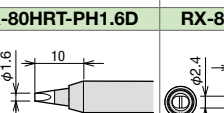
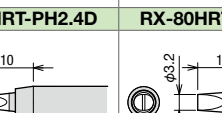
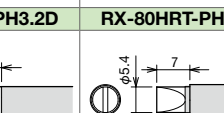
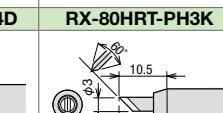

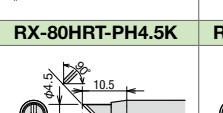
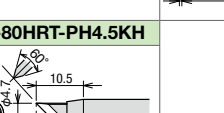
Station	RX-822AS	RX-852AS	RX-802AS	RX-802ASPH	RX-812AS
Applicable Iron Unit	RX-80GAS *RX-81GAS RX-85GAS (*Sold separately)	*RX-80GAS *RX-81GAS RX-85GAS	RX-80GAS *RX-81GAS	*RX-80GAS *RX-81GAS	*RX-80GAS RX-81GAS

<b>RX-80HRT-BM</b> 	<b>RX-80HRT-1BC</b> 	<b>RX-80HRT-2.3BC</b> 	<b>RX-80HRT-3BC</b> 	<b>RX-80HRT-0.5C</b> 
<b>RX-80HRT-1C</b> 	<b>RX-80HRT-2C</b> 	<b>RX-80HRT-2CF</b> 	<b>RX-80HRT-2CD</b> 	<b>RX-80HRT-3C</b> 
<b>RX-80HRT-3CF</b> 	<b>RX-80HRT-3CD</b> 	<b>RX-80HRT-4C</b> 	<b>RX-80HRT-4.7C</b> 	<b>RX-80HRT-0.8D</b> 
<b>RX-80HRT-1.2D</b> 	<b>RX-80HRT-1.6D</b> 	<b>RX-80HRT-2.4D</b> 	<b>RX-80HRT-3.2D</b> 	<b>RX-80HRT-5.4D</b> 
<b>RX-80HRT-3K</b> 	<b>RX-80HRT-4.5K</b> 	<b>RX-80HRT-4.5KH</b> 	<b>RX-80HRT-5.5K</b> 	

**RX-80HRT-PH Series / Applicable Iron Unit**

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

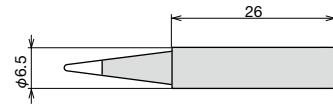


<b>RX-80HRT-PHB</b> 	<b>RX-80HRT-PH2B</b> 	<b>RX-80HRT-PHSB</b> 	<b>RX-80HRT-PHLB</b> 	<b>RX-80HRT-PHLBJ</b> 	<b>RX-80HRT-PHBM</b> 
<b>RX-80HRT-PH1BC</b> 	<b>RX-80HRT-PH2.3BC</b> 	<b>RX-80HRT-PH3BC</b> 	<b>RX-80HRT-PH0.5C</b> 	<b>RX-80HRT-PH1C</b> 	<b>RX-80HRT-PH2C</b> 
<b>RX-80HRT-PH2CD</b> 	<b>RX-80HRT-PH3C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

# SOLDERING IRONS [REPLACEMENT TIPS]

## PX-60RT Series

Applicable Model	RX-701AS RX-711AS	PX-501AS PX-501	PX-601AS PX-601	CXR-31 CXR-41
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<b>PX-60RT-B</b> 	<b>PX-60RT-SB</b> 	<b>PX-60RT-LB</b> 	<b>PX-60RT-1C</b> 	<b>PX-60RT-1.5C</b> 
<b>PX-60RT-2C</b> 	<b>PX-60RT-3C</b> 	<b>PX-60RT-4C</b> 	<b>PX-60RT-0.5CR</b> 	<b>PX-60RT-0.8CR</b> 
<b>PX-60RT-1CR</b> 	<b>PX-60RT-2CR</b> 	<b>PX-60RT-3CR</b> 	<b>PX-60RT-4CR</b> 	<b>PX-60RT-0.8D</b> 
<b>PX-60RT-1.2D</b> 	<b>PX-60RT-1.2LD</b> 	<b>PX-60RT-1.6D</b> 	<b>PX-60RT-2.4D</b> 	<b>PX-60RT-3.2D</b> 
<b>PX-60RT-3K</b> 	<b>PX-60RT-5K</b> 	<b>PX-60RT-1.8H</b> 	<b>PX-60RT-H</b> 	<b>PX-60RT-R</b> 
<b>PX-60RT-RT</b> 	<b>PX-60RT-S4</b> 	<b>PX-60RT-SB2</b> 	<b>PX-60RT-SI</b> 	

## FA Series

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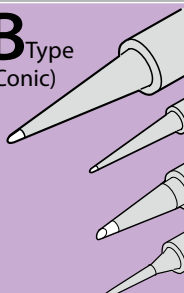
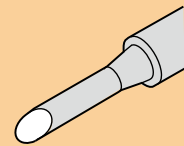
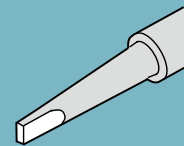
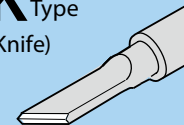
<b>FA-10HRT-1.6D</b> 	<b>FA-10HRT-2.4D</b> 	<b>FA-10HRT-3.2D</b> 	<b>FA-10HRT-1.6SD</b> 	<b>FA-10HRT-3.2SD</b> 	<b>FA-10HRT-3.2DV</b> 
<b>FA-10HRT-4C</b> 	<b>FA-10HRT-2PC</b> 	<b>FA-10HRT-3PC</b> 	<b>FA-10HRT-0.8W</b> 		
<b>FA-10HRT-1.2W</b> 					

# YOUR BEST TIP

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

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

◎ Best ○ Good △ OK × NO

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

# SOLDERING IRONS [TEMPERATURE-CONTROLLED]

## TEMPERATURE-CONTROLLED SOLDERING IRONS

- LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING IRON
- TEMPERATURE-CONTROLLED SOLDERING IRONS
- HIGH HEAT VOLUME TEMP-CONTROLLED SOLDERING IRON
- FIXED-TEMPERATURE SOLDERING IRONS



We put your station functions in your grip!  
Smart soldering iron with digital display.

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING IRON

**PX-280**     
**Smart Iron™**



LED HEAT lamp

### Quick Heat

Reaches temperature in time comparable to that of middle-class soldering stations. Gets to 350°C in just 30 seconds with a standard tip.

With a high-power heater and sensor, there is almost no temperature fluctuation during heavy-duty continuous operation.

Excellent heat recovery. Can be used for continuous soldering work at the manufacturing site.

### For many kinds of soldering

Set temperature is displayed digitally. Temperature can be set from 200°C to 500°C by 1°C increments.

### Sleep / Shutdown (PAT.P)

Sleep / Shutdown function with vibration sensor can be set. Tip life is longer with these functions.

### KEY LOCK

Temperature and other settings cannot be changed by unauthorized personnel.

### Calibration

You can calibrate the difference between tip temperature and displayed temperature.

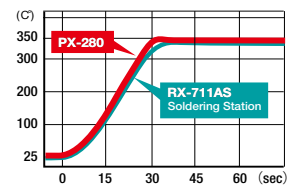
**Digital Display in 1°C Increments**  
Set temp. from 200°C to 500°C

**SLEEP / SHUTDOWN (PAT.P)**  
Tip Life Greatly Improved

**KEY LOCK**  
With Numerical Code

**Ergonomic Grip**  
New Design for Easy Grip

Compares Nicely with Station Iron RX-711AS



Easy-to-see LCD display




MODEL	PX-280	PX-280 (3-prong plug)
Voltage	110-120 V, 220-240 V AC 50/60 Hz	
Power Consumption	100-120 W (110-120 V), 19W (220-240 V)	
Temperature Setting Range	200-500°C	
Ripple Temperature	±5°C (unloaded)	
Ground Resistance	-	2Ω or less
Leak Voltage	-	Less than 2 mV
Insulation Resistance	100 MΩ or more (500 V DC)	
Heater	Ceramic heater	
Power Cord Length/Plug	1.5 m	
Length / Weight	219 mm / 70 g	
Accessories	Soldering Iron Tip (PX-28RT-S2C)	

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

### REPLACEMENT PARTS / OPTIONS

- PX-280 Heater
- PX-28H**
- PX-280 Spacer
- PX-28SS**
- PX-280 Barrel
- PX-60HP**
- PX-280 Collar
- TQ-77NUT**



### Insert Nut Tips

- PX-28T-NL
- PX-28T-NS
- PX-28T-NM3
- PX-28T-NM4





The heater is automatically controlled.

<b>POWER LAMP</b> Easy heater-on check	<b>LEAD-FREE APPLICABLE</b> High-power ceramic heater	<b>AUTOMATIC HEAT CONTROL</b> According to the heating load of the tip
<b>COMFORTABLE SOLDERING</b> Improved grip design	<b>COOLER GRIP</b> Thermal insulation & rubber grip	

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

PX-335 is optimized for general lead-free soldering, at a recommended temperature of 350°C.



PX-335

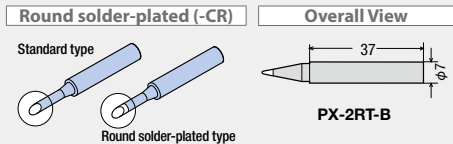
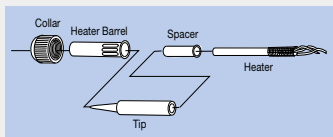


MODEL	PX-335	PX-338	PX-342
Voltage	110-120 V, 220-240 V AC 50/60 Hz		
Power	110-120 V model	90-130 W	
Consumption	220-240 V model	85-120 W	75-110 W
Temperature Setting Range	350°C	380°C	420°C
Ripple Temperature	±5°C (unloaded)		
Insulation Resistance	Over 100 MΩ (500 V DC)		
Heater	Ceramic Heater		
Power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

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


### REPLACEMENT PARTS / OPTIONS

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



## Wide-range iron with temperature adjuster.

### TEMPERATURE-CONTROLLED SOLDERING IRON **PX-201/PX-401**

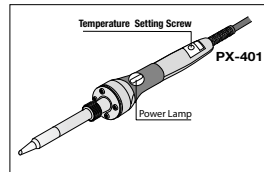
<b>TEMPERATURE ADJUSTABLE</b> 250-450°C (PX-201), 300-480°C (PX-401)	<b>ACCURATE TEMPERATURE CONTROL</b> Ceramic heater with internal sensor	<b>RoHS</b>	<b>LEAD FREE</b>
<b>ERGONOMIC GRIP</b> Prevents fatigue			

PX-201 Wide-range iron with temperature adjuster.



Heat Insulation Cap for Quick Storage Included.

PX-401 (High Heat Storage Model)  
Large tip for high thermal-storage effect.



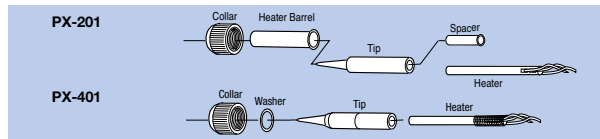
**!** Heat-resistant cap (TQ-CAP) is not available for the PX-401.

### REPLACEMENT PARTS / OPTIONS

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

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 m	
Length	210 mm	215 mm
Weight	90 g	92 g
Accessories	Soldering Iron Tip (PX-2RT-B)	Soldering Iron Tip (PX-40RT-5C)

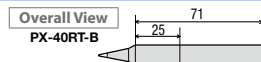
\*The length does not include the cord bushing. The weight does not include the cord.



### REPLACEMENT TIPS

**For PX-201** Replacement tips are interchangeable with PX-3 series. Refer to the above.

**For PX-401**




# SOLDERING IRONS [HIGH-EFFICIENCY]

## HIGH-EFFICIENCY SOLDERING IRONS

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



### Best for SMD soldering.

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



**COMPACT AND LIGHT**  
Easy use

**THICK-PLATED LONG-LIFE TIP**  
Hard chrome coated

**EASY HEATER REPLACEMENT**  
Connector-type heater



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



CXR-31

CXR-31/41

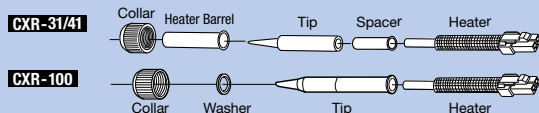
### SPECIFICATIONS

MODEL	CXR-31	CXR-41	CXR-100
Voltage	110 V, 120 V 220-230 V AC	120 V 220-230 V, 240 V	110-130 V, 220-240 V AC 50/60 Hz
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>		
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		88 g
Accessories	Soldering Iron Tip CXR-31/41: <b>PX-60RT-SB</b> CXR-100: <b>CXR-100RT-7C</b>		

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

### REPLACEMENT PARTS / OPTIONS

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



### High-powered quick thermal recovery.

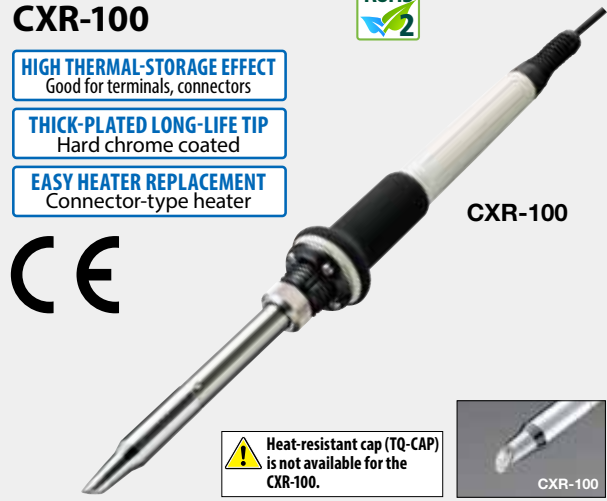
HIGH-POWER SOLDERING IRONS  
**CXR-100**



**HIGH THERMAL-STORAGE EFFECT**  
Good for terminals, connectors

**THICK-PLATED LONG-LIFE TIP**  
Hard chrome coated

**EASY HEATER REPLACEMENT**  
Connector-type heater



CXR-100

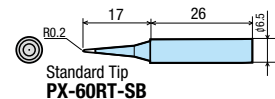
Heat-resistant cap (TQ-CAP) is not available for the CXR-100.

CXR-100

### REPLACEMENT TIPS

For CXR-31/41

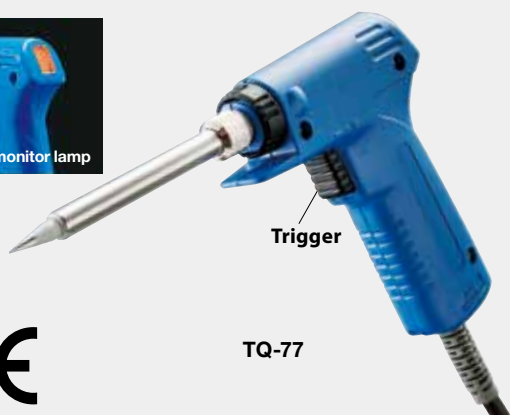
A wide variety of replacement tips for all types of work. Refer to [p.30](#) for further details.



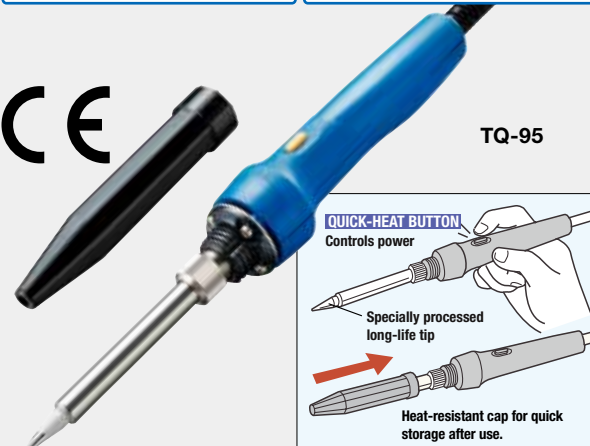
For CXR-100

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

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



- POWER LAMP (TQ-77 ONLY)**  
Easy heater-on check
- COMFORTABLE SOLDERING**  
High-power ceramic heater
- TWO-STAGE HEAT-SWITCH SYSTEM**  
10 times higher power than normal
- ERGONOMIC GRIP**  
Prevents fatigue



**SPECIFICATIONS**

MODEL	TQ-77	TQ-95
Voltage	110-130 V, 220-240 V AC 50/60 Hz	
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.6</a>	
Insulation Resistance	Over 100 MΩ (500 V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5 m	
Length	167 mm	210 mm
Weight	90 g	65 g
Accessories	Soldering Iron Tip (TQ-77RT-B)	Soldering Iron Tip (TQ-77RT-B) Cap for TQ-95 (TQ-CAP)

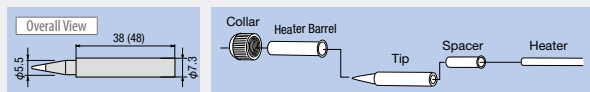
\*The length does not include the cord bushing. The weight does not include the cord.

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

**REPLACEMENT TIPS**

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

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



( ) Size for 220-240 V AC model

**REPLACEMENT PARTS / OPTIONS**

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

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



**CERAMIC-PIPE HEATER**  
Lower priced tips

**PERFECT FOR PRECISION SOLDERING**  
Slim and sharp tips

**SLIM GRIP**  
Easy to hold

**REPLACEMENT PARTS / OPTIONS**

CS-21 Heater <b>CS-21H</b>	Recommended Stand <b>ST-27</b>
CS-31 Heater <b>CS-31H</b>	

**SPECIFICATIONS**

MODEL	CS-21	CS-31
Voltage	110 V, 220 V AC 50/60 Hz	110V, 120V, 220V, 240V AC 50/60 Hz
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>	
Insulation Resistance	Over 100 MΩ (500 V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5 m	
Length	188 mm	
Weight	43 g	
Accessories	Soldering Iron Tip (CS-20/30RT-SB)	

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

**REPLACEMENT TIPS**

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

# SOLDERING IRONS [NICHROME HEATER]

## NICHROME HEATER SOLDERING IRONS

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

SHEET-METAL SOLDERING IRONS  
 RED / BLACK TIPS  
 COPPER TIPS



### Our best-selling soldering iron.

GENERAL ELECTRONICS  
 SOLDERING IRONS

## KS Series



**RED TIP**  
 Long-life tips

**LIGHT GRIP**  
 Easy to use



KS-30R

### New ergonomic design.

GENERAL ELECTRONICS  
 SOLDERING IRONS

## KX Series



**RED TIP**  
 Long-life tips

**ERGONOMIC HANDLE**  
 Reduces fatigue



KX-30R

### REPLACEMENT TIPS

R-48SB		R-48B		R-6B	
	75		75		80
R0.3	14	R0.5	9	R0.8	12
φ4		φ4		φ6	
RD-67BC		RD-68BC			
	83		88		
1.5	15	1.5	17		
φ6		φ6			

Model / Application											
	IC	P.C. Board	Transistors	Capacitors	Resistors	Switches	Printed Circuits	Connectors	Lead wires	Copper Cables	Metal Cases
KS-20R / KX-20R	○	○	○	○	○	○	○	○	○	○	○
KS-30R / KX-30R	○	○	○	○	○	○	○	○	○	○	○
KS-40R / KX-40R	○	○	○	○	○	○	○	○	○	○	○
KS-60R / KX-60R	○	○	○	○	○	○	○	○	○	○	○
KS-80R / KX-80R	○	○	○	○	○	○	○	○	○	○	○
KS-100R / KX-100R	○	○	○	○	○	○	○	○	○	○	○

○ The most suitable ○ Suitable — Not suitable

### SPECIFICATIONS

#### KS series

MODEL	KS-20R	KS-30R	KS-40R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz		
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>		
Heater	Nichrome Heater		
Length	205 mm		
Weight	45 g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

MODEL	KS-60R	KS-80R	KS-100R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz		
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>		
Heater	Nichrome Heater		
Length	230 mm	235 mm	240 mm
Weight	65 g	70 g	75 g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

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

#### KX series

MODEL	KX-20R	KX-30R	KX-40R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz		
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>		
Heater	Nichrome Heater		
Length	208 mm		
Weight	50 g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

MODEL	KX-60R	KX-80R	KX-100R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz		
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.4</a>		
Heater	Nichrome Heater		
Length	233 mm	238 mm	243 mm
Weight	70 g	75 g	80 g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

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

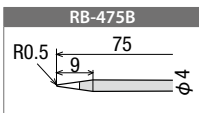
### REPLACEMENT PARTS / OPTIONS

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

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



High 60 W power when trigger is pulled.



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

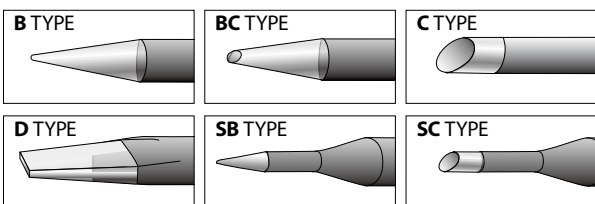
**SPECIFICATIONS**

MODEL	KYP-60	KYP-70
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz	
Power Consumption	Trigger ON 60 W equiv. / Trigger OFF 30 W equiv. Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.5</a>	
Heater	Nichrome Heater	
Length	175 mm	
Weight	160 g	
Accessories	TQ-CAP (KYP-70), Soldering Iron Tip : <b>RB-475B</b>	

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

**REPLACEMENT TIPS**

SPEC	MODEL	TYPE	DIA.	LENGTH
Black Tip	<b>RB-475B</b>	B	ø4 mm	75 mm
Red Tip	<b>R-48B</b>	B	ø4 mm	75 mm
	<b>R-48BC</b>	BC		
	<b>R-48C</b>	C		
	<b>R-48D</b>	D		
	<b>R-48SB</b>	SB		
	<b>R-48SC</b>	SC		



**REPLACEMENT PARTS / OPTIONS**

Heater	Heat Resistant Cap for KYP-70
<b>KYP-70H</b>	<b>TQ-CAP</b>
Recommended Stand	
<b>ST-11</b>	

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

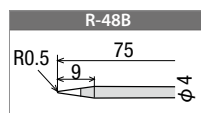


**CA-30R**

**SPECIFICATIONS**

MODEL	CA-30R	CA-40R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/60 Hz	
Power Consumption	Please see <a href="#">KS-30R, p.4</a> Please see <a href="#">KS-40R, p.4</a>	
Heater	Nichrome Heater	
Length	185 mm	
Weight	60 g	
Accessories	Soldering Iron Tip : <b>R-48B</b>	

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



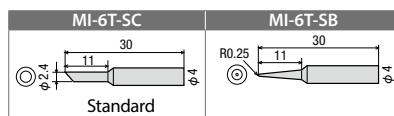
For other replacement tips, refer to [p. 39](#)



**REPLACEMENT PARTS / OPTIONS**

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

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



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

**SPECIFICATIONS**

MODEL	MI-6-6 V	MI-6-12 V
Voltage	6 V AC / DC 12 V AC / DC	
Power Consumption	Power consumption may vary according to location and item specs. Please see <a href="#">Products power consumption and safety standard p.5</a>	
Heater	Nichrome Heater	
Length	150 mm	
Weight	9 g	
Accessories	Soldering Iron Tip : <b>MI-6T-SC</b>	

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

**REPLACEMENT PARTS / OPTIONS**

MI-6-6 V Heater	MI-6-12 V Heater
<b>MI-6H-6 V</b>	<b>MI-6H-12 V</b>
Recommended Stand	
<b>ST-30</b>	

# SOLDERING IRONS [NICHROME HEATER]

High power. Suitable for sheet-metal work.



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

**WOODEN HANDLE**  
Has good insulation

**LARGE COPPER TIP**  
Can be shaped to suit your work purpose

### SPECIFICATIONS

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

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



### REPLACEMENT TIPS

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

### REPLACEMENT PARTS / OPTIONS

HP-150 Heater  
**HP-150H**

HP-300 Heater  
**HP-300H**

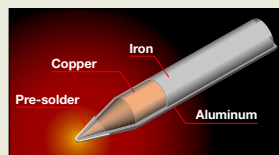
HP-200 Heater  
**HP-200H**

Recommended Stand  
**ST-70**

10 to 20 times longer life than normal copper tips.



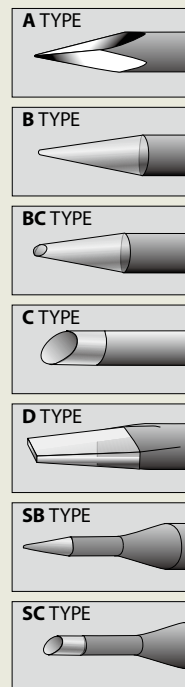
The **goot Red Tips** are genuine, long-life replacement tips. Made of iron-plated copper, coated with aluminum. 10 to 20 times longer life than normal copper tips. Hi-precision processed tips achieve extremely accurate soldering work. The **goot Black Tips** are made of copper, iron plated, and covered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



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

Tip Applicable Model List					
SPEC	MODEL	TYPE	DIA.	LENGTH	APPLICABLE MODEL
Black Tip	RB-475B	B	φ4 mm	75 mm	KYP-60, KYP-70
	RB-680B	B	φ6 mm	80 mm	KX-60R, KS-60R
Red Tip	R-48B	B	φ4 mm	75 mm	CA-30/40R KS-20R/30R/40R KYP-60, KYP-70 KX-20R, KX-30R, KX-40R
	R-48BC	BC			
	R-48C	C			
	R-48D	D			
	R-48SB	SB			
	R-48SC	SC			
	R-6B	B	φ6 mm	80 mm	KS-60R KX-60R
	R-6BC	BC			
	R-6C	C			
	R-6D	D			
	R-6SB	SB			
	R-6SC	SC			
	RD-67B	B	φ6-7 mm	83 mm	KS-80R KX-80R
	RD-67BC	BC			
	RD-67C	C			
	RD-67D	D			
	RD-68B	B	φ6-8 mm	88 mm	KS-100R KX-100R
	RD-68BC	BC			
RD-68C	C				
RD-68D	D				

### TIP SHAPES



File reshaping available.



## COPPER TIPS T series

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

### Tip Size Table

	TYPE		R-48	R-6	RD-67	RD-68
B		a	0.5	0.8	0.6	0.6
		b	9	12	15	17
		c	7	10	10	10
BC		a	1.2	1.6	1.5	1.5
		b	9	12	15	17
		c	45	45	45	45
C		a	4	6	7	8
		b	7	10	10	12
		c	45	45	45	45
D		a	1	1.2	1	1
		b	3.2	4.2	4	4
		c	13	25	26	27
SB		a	0.3	0.3	-	-
		b	14	18	-	-
		c	2	3	-	-
SC		a	2	3	-	-
		b	14	18	-	-
		c	45	45	-	-

### Tip Size Table

	TYPE		T-13	T-16	T-19
A		a	2	3	3
		b	20	25	30
		c	13	16	19

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

# SOLDERING IRONS [PORTABLE TYPE]

## PORTABLE SOLDERING IRONS

PORTASOL SUPER PRO  
PORTASOL PRO PIEZO  
PORTASOL PRO PIEZO SET



Take high power outdoors.



GAS-POWERED SOLDERING IRON

### GP-501 PORTASOL SUPER PRO

- 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.



NOTE: Fill with gas before use.



### SPECIFICATIONS

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

### REPLACEMENT TIPS

<p>GP-501RT-1C</p>	<p>GP-501RT-2.4C Standard</p>	<p>GP-501RT-3.2C</p>	<p>GP-501RT-4.8C</p>	<p>GP-501RT-1D</p>	<p>GP-501RT-2.4D</p>
<p>GP-501RT-3.2D</p>	<p>GP-501RT-4.8D</p>	<p>GP-501CU Hot Knife</p>	<p>GP-501HT Hot Air</p>		

Long-life iron-plated tips.



● Piezo ignition, compact type.



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



NOTE: Fill with gas before use.



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

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



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

- Controls equivalent power of 15-75 W with the temperature adjuster.
- Replacement tip converts it to a hot air tool. NOTE: Fill with gas before use.



Hot air



With 2.4C tip



With 1C tip

### 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
		Hot Knife

Long-life iron-plated tips.

Must be used with the GP-510HT.

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

#### INCLUDED ITEMS

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

<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.

GP-510RT-1C	GP-510RT-2.4C	GP-510HT

Long-life iron-plated tips.

Must be used with the GP-510HT.

# SOLDERING IRONS [PORTABLE TYPE]

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



## BATTERY-POWERED SOLDERING IRON MSD-40



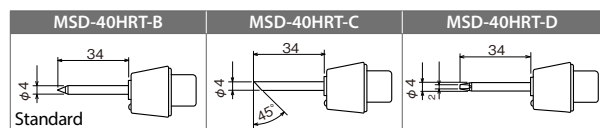
### Use Anywhere, Anytime!

LED light allows comfortable soldering in dark or compact places, e.g. car wiring, remote locations, etc. Attachment type tip can be replaced without tools. Low-battery lamp prevents sudden interruption of work from battery exhaustion. Protective cap prevents accidental switch-ons. Carry in bag or pocket safely. Hole to attach strap.



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

### REPLACEMENT TIPS



Easy! Convenient!!



## BATTERY-POWERED SOLDERING IRON MSD-20



Compact and portable  
180 mm with cap on



LED light for visibility

Locks OFF with safety cap

Double-action ON switch

Rechargeable batteries OK.

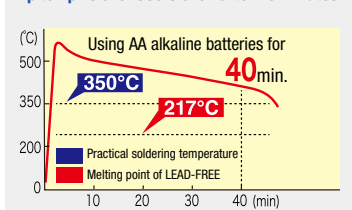
### USEFUL

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

### SAFE

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

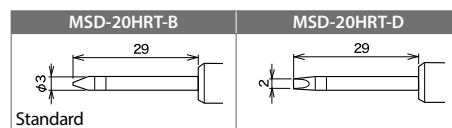
Tip temp. is over 350°C even after 40 minutes.



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

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

### REPLACEMENT TIPS



Mobile soldering iron powered by USB cable



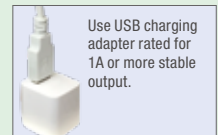
## BATTERY-POWERED SOLDERING IRON MSD-5



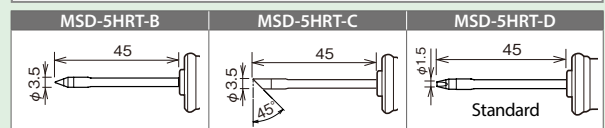
Powered by USB cable. Mobile battery so you can use it anywhere. Can be used as styrofoam cutter with our attachment (sold separately). **p.71 SC-5**

\*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.



### REPLACEMENT TIPS



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

## STAINED-GLASS SOLDERING IRON

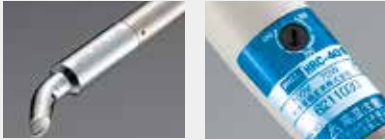
TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON  
STAINED-GLASS SOLDERING IRON

■ Best temperature adjustment.



### TEMPERATURE-CONTROLLED STAINED-GLASS SOLDERING IRON HRC-401

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



Power Lamp

HRC-401



■ Slim grip for easy handling.



### STAINED-GLASS SOLDERING IRON 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.



HRC-100



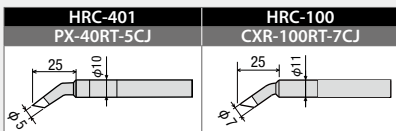
HRC-100

#### SPECIFICATIONS

MODEL	HRC-401	HRC-100
Voltage	110-130 V, 220-240 V AC 50/ 60 Hz	
Power Consumption	70 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
Weight	83 g	88 g
Accessories	Soldering Iron Tip	
	PX-40RT-5CJ	CXR-100RT-7CJ

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

#### REPLACEMENT TIPS



#### REPLACEMENT PARTS / OPTIONS

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

# AUTOMATIC SOLDER FEEDER

## AUTOMATIC SOLDER FEEDER



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



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



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

### V-GROOVE AUTOMATIC SOLDER FEEDER FD-180



**INPUT NUMBER BY TOUCH PANEL**  
Manage solder feed length and time digitally.

**SOLDER-SPLASH PREVENTION**  
V-groove function (Unit exchange type)

**EXTERNAL INPUT / OUTPUT TERMINALS**  
For interlocking with Poka-Yoke jig

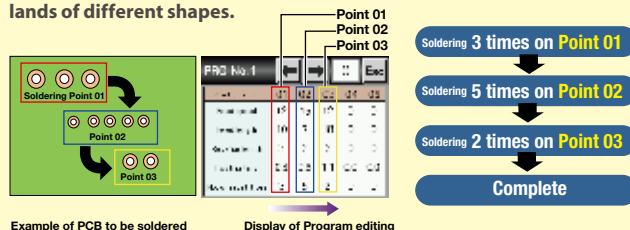
**SEPARABLE MAIN UNIT AND TOUCH-PANEL**  
Ideal for cell production and incorporation into automatic processes.

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

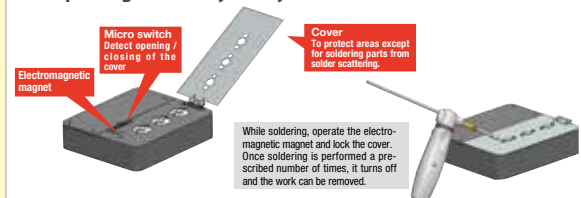
Solder in this image is also not included.

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

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



Example: Gig for Poka-yoke by Customer









# SAMPLE CONFIGURATION

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

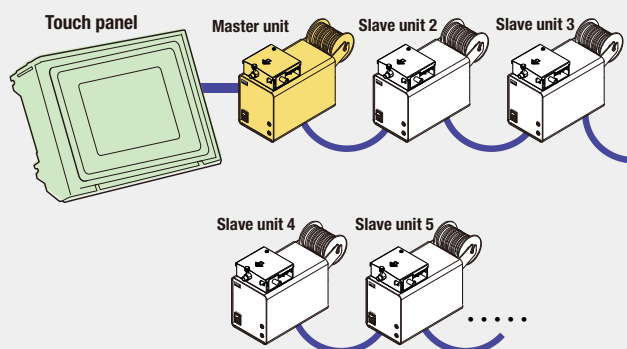
①	Temperature-Controlled Lead-Free Soldering Station	RX-802AS
②	Tip	RX-80HRT-B
③	Automatic Solder Feeder Unit	FD-180
④	V-groove unit	FD-180VU-1.0
⑤	Tube Assy (Solder Dia. $\phi$ 0.6-1.0)	FD-100TA-1.0
⑥	Guide Pipe (for RX-80GAS)	FD-100P-80
⑦	Nozzle (Solder Dia. $\phi$ 1.0)	FD-120N-1.0



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

Solder Dia.	0.6 / 0.65 mm	0.8 mm	1.0 mm	1.2 mm	1.6 mm
V-groove unit 	FD-180VU-0.6	FD-180VU-0.8	FD-180VU-1.0	FD-180VU-1.2	FD-180VU-1.6
Feeder Unit 	Feeder Grip 	FD-180G-1.0			FD-180G-1.6
	Tube Assy 	FD-100TA-1.0			FD-100TA-1.6
	Feeder Pen 	FD-100PN-1.0			FD-100PN-1.6
	Nozzle is required separately. Separate foot switch FD-100FS is required for use.				
Nozzle 	FD-120N-0.6	FD-120N-1.0		FD-120N-1.6	

## Manage multiple units with one touch panel (optional)



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

## SPECIFICATIONS

MODEL	FD-180	
Power Supply Voltage	100-240 V AC 50/60 Hz	
V-groove function	Available	
Applicable Solder Diameter	$\phi$ 0.6/0.8/1.0/1.2/1.6 mm Allowing Lead-free	
Solder Feed Amount	400 mm (Max.)	
Solder Feed Speed	1-50 mm/sec	
Reversed Solder Speed	1-50 mm/sec	
Reversed Solder Amount	30 mm (Max.)	
Program Capacity	Max. 30 programs	
Condition of Solder Feed	Max. 30 kinds per 1 program	
Languages	Japanese / English / Chinese	
Dimensions	Feeder Unit	100 (W) $\times$ 270 (H) $\times$ 163 (D) mm
	Touch Panel	153 (W) $\times$ 125 (H) $\times$ 72 (D) mm
Weight	Feeder Unit	2.8 kg (w/o cord)
	Touch Panel	1.0 kg (w/o cord)

# AUTOMATIC SOLDER FEEDER

■ V-groove prevents solder splash.

V-GROOVE AUTOMATIC SOLDER FEEDER

## FD-120

V-groove unit differs according to solder diameter used. Please let us know your solder diameter when purchasing FD-120.

*Easy to configure for other solder diameter with changeable V-groove Unit. Max  $\phi$ 1.6 mm Lead-free Solder Applicable.*



This image is with optional parts. Solder, soldering unit, and other optional parts are not included with this FD-120.

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

V-groove Unit

■ Stable quality at less cost! Fixed Solder Feed

## AUTOMATIC SOLDER FEEDER FD-100

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



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

### SOLDER-SPLASH PREVENTION

V-groove function

### MAX $\phi$ 1.6 LEAD-FREE SOLDER APPLICABLE\*

Wide tube

### INNOVATIVE DESIGN MEANS FEWER CLOGS

Handpiece shaped for smooth solder flow

### COMPATIBLE WITH YOUR SOLDERING UNIT

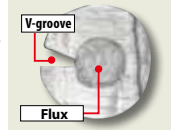
for **goot RX series** soldering stations

\*Please tell us your solder diameter when purchasing.

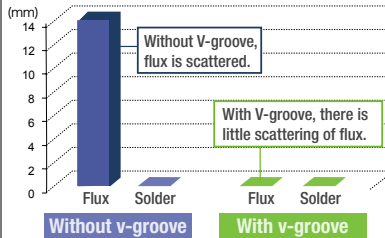
### V-groove function

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

#### Solder cross section



### ■ Solder splash



### MAX $\phi$ 1.6 LEAD-FREE SOLDER APPLICABLE

Wide tube

### INNOVATIVE DESIGN MEANS FEWER CLOGS

Handpiece shaped for smooth solder flow

### COMPATIBLE WITH YOUR SOLDERING UNIT

for **goot RX series** soldering stations

### SPECIFICATIONS

MODEL	FD-100	FD-120
Voltage	100-240V AC 50/60Hz inlet type	
Power Consumption	8W	
Power Cord Length	1.5 m	
Applicable Soldering Irons	RX-802AS (RX-80GAS)	
	RX-852AS (RX-85GAS)	
	RX-822AS (RX-80/85GAS)	
	RX-701/711AS (RX-72GAS)	
Applicable Solder Diameter	$\phi$ 0.6-1.6 (mm)	$\phi$ 0.6, $\phi$ 0.8, $\phi$ 1.0, $\phi$ 1.2, $\phi$ 1.6 (mm)
	LF solder applicable	
Solder Feed Speed unloaded	6-22 mm/s	$\phi$ 0.6, $\phi$ 0.8 : 4-22 mm/s
		$\phi$ 1.0, $\phi$ 1.2 : 3-20 mm/s
		$\phi$ 1.6 : 0-16 mm/s
Solder Feed Time	0-4s	
Returned Solder Amount	0-5 mm (fixed speed)	
Dimensions	FD-100 : 82 (W) $\times$ 140 (H) $\times$ 210 (D) mm	
	FD-120 : 82 (W) $\times$ 150 (H) $\times$ 210 (D) mm	
Weight	1.5 kg (w/o cord)	

### REPLACEMENT PARTS / OPTIONS

Tube Assy (Solder  $\phi$ 0.6-1.0)  
**FD-100TA-1.0**

Tube Assy (Solder  $\phi$ 1.2-1.6)  
**FD-100TA-1.6**

Guide Pipe for RX-80GAS  
**FD-100P-80**

Guide Pipe for RX-85GAS  
**FD-100P-85**

Guide Pipe for RX-72GAS  
**FD-100P-72**

Feeder Pen (Solder  $\phi$ 0.6-1.0)  
**FD-100PN-1.0**

Feeder Pen (Solder  $\phi$ 1.2-1.6)  
**FD-100PN-1.6**

Nozzle (Solder  $\phi$ 0.6/ 0.65)  
**FD-120N-0.6**

Nozzle (Solder  $\phi$ 0.8/ 1.0)  
**FD-120N-1.0**

Nozzle (Solder  $\phi$ 1.2/ 1.6)  
**FD-120N-1.6**

Foot Switch  
**FD-100FS**

**ST-21, ST-22** soldering iron stand for **RX-802AS/852AS/822AS**  
If you don't have it, please purchase one. (The old ST-20 is not applicable)



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



Foot Switch  
**FD-100FS**

# SAMPLE CONFIGURATION

Constant feed volume. Stable quality at lower cost. V-groove prevents solder ball and solder splash.



This image is with optional parts. Solder, soldering unit, and other optional parts are not included with this FD-120.

① Temperature-Controlled Lead-Free Soldering Station

③ Automatic Solder Feeder Unit FD-120

④ Tube Assy

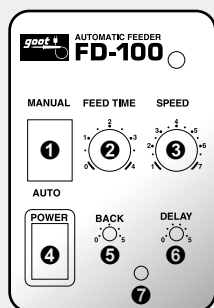
⑥ Guide Pipe

② Tip for RX-802AS

⑦ Nozzle

⑤ V-groove Unit

## FRONT PANEL (Common FD-100/120)



- ① Mode Changer
- ② Feed Time Adjuster
- ③ Feed Speed Adjuster
- ④ Main Power Switch
- ⑤ Return Amount Adjuster
- ⑥ Delay Time Adjuster
- ⑦ Switch Jack

## FD-120 Sample configuration

①	Temperature-Controlled Lead-Free Soldering Station	RX-802AS
②	Tip	RX-80HRT-B
③	Automatic Solder Feeder Unit	FD-120
④	Tube Assy (Solder Dia. $\phi$ 0.6-1.0)	FD-100TA-1.0
⑤	V-groove Unit	FD-180VU-1.0
⑥	Guide Pipe (for RX-80GAS)	FD-100P-80
⑦	Nozzle (Solder Dia. $\phi$ 1.0)	FD-120N-1.0

## FD-100 Sample configuration

①	Temperature-Controlled Lead-Free Soldering Station	RX-802AS
②	Tip	RX-80HRT-B
③	Automatic Solder Feeder Unit	FD-100
④	Tube Assy (Solder Dia. $\phi$ 0.6-1.0)	FD-100TA-1.0
⑥	Guide Pipe (for RX-80GAS)	FD-100P-80
⑦	Nozzle (Solder Dia. $\phi$ 1.0)	FD-120N-1.0

## CHOOSING OPTIONAL PARTS

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

Applicable Iron Unit	RX-80GAS RX-802AS RX-822AS	RX-85GAS RX-852AS RX-822AS		RX-72GAS RX-701AS RX-711AS
Soldering Iron Tip	RX-80HRT series	RX-80HRT series	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 / 0.65 mm	0.8 mm	1.0 mm	1.2 mm	1.6 mm
Tube Assy	FD-100TA-1.0			FD-100TA-1.6	
Nozzle	FD-120N-0.6	FD-120N-1.0		FD-120N-1.6	
Feeder Pen	FD-100PN-1.0			FD-100PN-1.6	
V-groove Unit for FD-120	Nozzle not included. Foot switch is required.				
	FD-180VU-0.6	FD-180VU-0.8	FD-180VU-1.0	FD-180VU-1.2	FD-180VU-1.6

# SOLDERING TESTER / TIP THERMOMETER

## SOLDERING TESTER / TIP THERMOMETER

SOLDERING TESTER  
TIP THERMOMETER



Quick measuring. Shorten your routine.



### TIP THERMOMETER TM-100

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

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



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

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

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

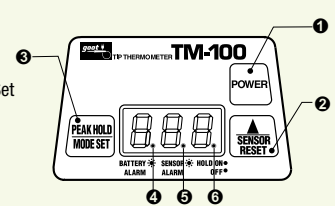
**PEAK-HOLD FUNCTION**  
Retains display of the temperature change

**SENSOR-LIFE COUNTER ALARM (PAT.P)**  
to estimate operating-life

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

#### Key Pad

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



#### SPECIFICATIONS

MODEL	TM-100	
Voltage	AA battery LR6 x 4 pcs : 6 V	
Dimensions	83 (W) x 140 (H) x 41 (D) mm	
Weight	150 g (w/o battery)	
Temperature	Resolution	1°C
	Measuring Range	Sensor TM-100S: 0-500°C (32-932°F) 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 4 pcs	

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

#### REPLACEMENT PARTS / OPTIONS

Sensor (3 pcs.)

**TM-100S**

Sensor Probe (1 pc.)

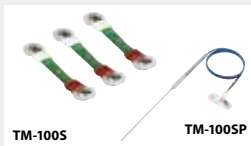
**TM-100SP**

TM-100 Calibration Services

**TM-100KOUSEI**

TM-100 JCSS Calibration Service (with Certificate)

**TM-100KOUSEI-JCSS**



Compact sensor for hard-to-reach places.

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

### SENSOR UNIT TM-100SU



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





Quick testing. Shorten your routine.



## SOLDERING TESTER TM-200

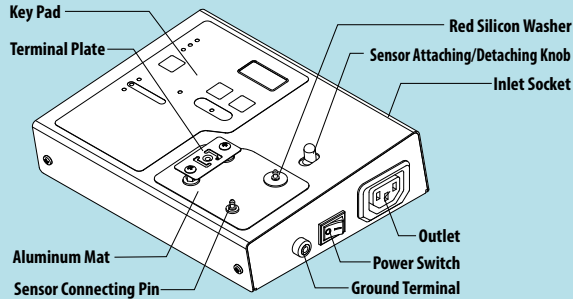
ONE Multi-Tester measures tip temperature, leak voltage, and tip-to-ground resistance of soldering irons.



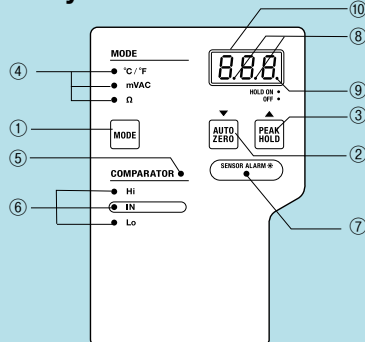
JCSS inspection calibration is available as an option (for fee) in addition to manufacturer calibration (for fee). JCSS Calibration Compliant Content: Complies with the requirements of ISO/IEC 17025, ISO 9000s, IATF 16949, etc. Can issue a calibration certificate with JCSS-certified symbol for international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

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

### Unit



### Key Pad



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

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

Good for over 200 uses

### PEAK-HOLD FUNCTION

Retains display of the temperature change

### SENSOR-LIFE COUNTER ALARM (PAT.P.)

to estimate operating-life

### COMPARATOR FUNCTION

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

### INDICATED VALUE HOLD FUNCTION

(Peak-Hold Function)

With one push, keeps the indicated value displayed.

### AUTO ZERO FUNCTION

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

### SENSOR-LIFE COUNTER ALARM

Estimates operating-life of the sensor.

### UNIVERSAL TESTER!

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

Corresponding to wide temperature range \*0-700°C (1292°F), as is needed for soldering work. The tolerance stays in the range of ±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		7 A
Dimensions		185 (W) × 58 (H) × 160 (D) mm (w/o cord)
Weight		Approx. 1 kg (w/o cord)
Temperature	Resolution	1°C
	Measuring Range	Sensor TM-100S: 0-500°C (32-932°F) Probe TM-100SP: 0-700°C (32-1292°F)
	Accuracy	0-500°C : ±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 AC only, 1 kHz or less
	Accuracy	±(5% of reading value + 1dgt)
Resistance	Resolution	0-99.9 Ω : 0.1 Ω 100-200 Ω : 1 Ω (auto range)
	Measuring Range	0-200 Ω
	Accuracy	± (5% of reading value + 1dgt)
Operating Environment		0-40°C, 20-85%RH (no condensation)
Accessories		Sensor 3 pcs, Earth connecting lead, Fuse, Power Cord, Plug Adapter

### REPLACEMENT PARTS / OPTIONS

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

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

# SOLDER POTS

## SOLDER POTS

SOLDER POTS  
SOLDER POTS [LEAD-FREE]



Temperature control knob for optimal dipping.

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



POT-23C  
POT-28C



Spatula included.



POT-21C



POT-23C



POT-28C

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

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

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

#### REPLACEMENT PARTS / OPTIONS

POT-21C/23C/28C Heater

**POT-21CH**

POT-23C Bath

**POT-23CP**

POT-21C Bath

**POT-21CP**

POT-28C Bath

**POT-28CP**

#### SPECIFICATIONS

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

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

Firmly holds the PCB.

### PCB DIPPING HOLDER PCB-1

Holds the PCB firmly for dipping into the solder pot.



#### SPECIFICATIONS

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

Economical and erosion-resistant cast-iron bath. SOLDER POT [cast-iron bath] **POT-50C**



**ACCURATE TEMPERATURE CONTROL**  
With PID control

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

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



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

#### SPECIFICATIONS

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

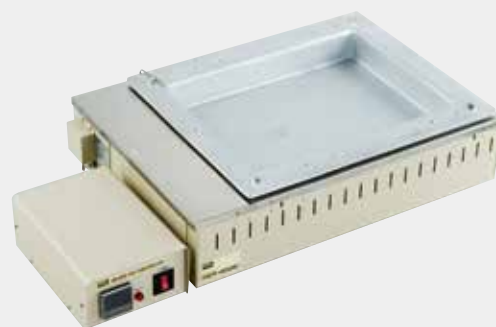
**NOTE:** The weight does not include the cord.

#### REPLACEMENT PARTS / OPTIONS

Heater  
**POT-50CH**

Bath  
**POT-50CP**

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



- LARGE BATH**  
For medium-sized PCBs
- CAST-IRON BATH**  
Lead-free solder applicable

- ACCURATE TEMPERATURE CONTROL**  
With PID control
- DUAL DIGITAL DISPLAY**  
Shows set-temperature & measured-temperature

■ Economical and erosion-resistant cast-iron bath.  
SOLDER POTS  
**POT-103C/203C**



■ Accurate temperature control with PID control.  
SOLDER POTS  
**POT-100C/200C**

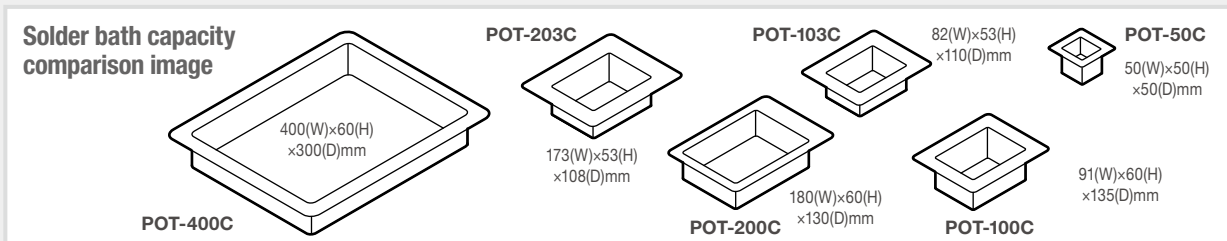


- ACCURATE TEMPERATURE CONTROL**  
With PID control
- CAST-IRON BATH**  
Lead-free solder applicable

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

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

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



**SPECIFICATIONS**

MODEL	POT-100C	POT-103C	POT-200C	POT-203C	POT-400C
Voltage (AC 50/60 Hz)	110 V, 120 V, 220 V, 240 V	110-120 V, 220-240 V	110 V, 120 V, 220 V, 240 V	110-120 V, 220-240 V	220-240 V
Power Consumption	440 W	900 W	720 W	1400 W	4 kW
Max. Temp.	350°C	450°C	400°C	450°C	400°C
Set Accuracy	±{(1.25% of display temperature)+1°C}				
Heater	Nichrome Heater	Sheath Heater	Nichrome Heater	Sheath Heater	Sheath Heater
Control System	PID Control				
Power Cord Length	1.3 m	1.5 m (3 core cord w/o plug)	1.3 m	1.5 m (3 core cord w/o plug)	3 m (3 core cord w/o plug)
Solder Bath Material	SUS316	Cast Iron	SUS316	Cast Iron	Cast Iron
Max. Solder Volume	Approx. 5.5 kg	Approx. 3.5 kg	Approx. 9.5 kg	Approx. 7 kg	50 kg
Dimensions (mm)	Bath Unit 360 (W) × 124 (H) × 220 (D)		450 (W) × 124 (H) × 220 (D)		602 (W) × 165 (H) × 427 (D)
	Control Unit -		-		175 (W) × 122 (H) × 260 (D)
	Solder Bath 91 (W) × 60 (H) × 135 (D)		82 (W) × 53 (H) × 110 (D)		180 (W) × 60 (H) × 130 (D)
Weight	5 kg	8 kg	7 kg	11 kg	43 kg

NOTE: The weight does not include the cord.

**REPLACEMENT PARTS / OPTIONS**

POT-100C Heater <b>POT-100CH</b>	POT-200C Heater <b>POT-200CH-S</b>	POT-100C Bath (Stainless) <b>POT-100CP</b>	POT-200C Bath (Stainless) <b>POT-200CP</b>	POT-400C Bath (Cast Iron) <b>POT-400CP</b>
POT-103C Heater <b>POT-103CHA</b> <b>POT-103CHB</b>	POT-203C Heater <b>POT-203CHA</b> <b>POT-203CHB</b>	POT-103C Bath (Cast Iron) <b>POT-103CP</b>	POT-203C Bath (Cast Iron) <b>POT-203CP</b>	POT-400C Heater <b>POT-400CHAH</b> (for Bottom) <b>POT-400CHBH</b> (for side)

# SURFACE-MOUNT / SMT PRODUCTS

## SURFACE-MOUNT / SMT PRODUCTS

- SMT REWORK REPAIR SYSTEM
- REBALL KIT
- HOT-AIR REWORK STATIONS
- HANDPIECE HOLDERS
- BOARD HOLDERS
- PREHEATERS
- SOLDERING TWEEZERS



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

SMT REWORK REPAIR SYSTEMS **RoHS**  
**GSR-302**



**PREHEATER** p.56  
**XPR-1000**

**HANDPIECE HOLDER**  
**XK-2**

p.56

**HOT-AIR REWORK STATIONS** p.54



**XFC-301**

**SYSTEM CONFIGURATION** Nozzles sold separately.

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


Handles BGAs, CSPs, QFPs and all SMDs using the preheater.

SMT REWORK REPAIR SYSTEMS **GSR-301/300** 



**SYSTEM CONFIGURATION** Nozzles sold separately.

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


Handles QFPs, SOL, DISCRETE SMT REWORK REPAIR SYSTEM **GSR-110** 



**SYSTEM CONFIGURATION** Nozzles sold separately.

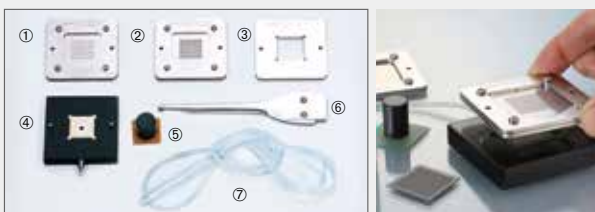
ITEM	GSR-110
Preheater	XPR-620
Hot-Air Rework Station	XFC-110
Handpiece Holder	XK-1
Board Holder	XU-1

Reball Kit allows replacement of solder balls on a BGA.

REBALL KIT  **XRБ series**



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



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



1. Remove the existing solder balls on the BGA chip with a soldering iron and a desoldering wick.
2. Set the Guide Plate on the base, and hold the BGA with the vacuum source.
3. Set the Metal Mask. Use the Spatula to apply the cream solder to all the holes.



4. Mount the Ball Guide. Pour the solder balls into the holes.
5. Press the solder balls into the cream solder with the Tamper.
6. Take out the BGA from the Base, and apply heat.

XRБ 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**



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



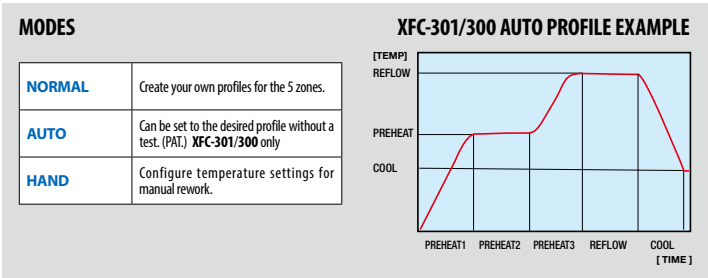
Nozzles sold separately.

**Auto-Lift Function**

**XFC-301**

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

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



Nozzles sold separately.

**XFC-300**

**Auto Cool-Down function to protect the heater. Handles QFPs, PLCCs, S0Ls.**



## HOT-AIR REWORK STATION **XFC-110**

● 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.

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



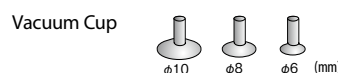
Nozzles sold separately.

## SPECIFICATIONS

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

### REPLACEMENT PARTS / OPTIONS

XFC series Heater	Vacuum Cup Set
<b>XFC-100H</b>	<b>XVCW-SET</b>
XRS-100 Heater	Vacuum Cup ø6 mm
<b>XRS-100H</b>	<b>XVCW-6</b>
XFC series Heater Pipe	Vacuum Cup ø8 mm
<b>XFC-100HP</b>	<b>XVCW-8</b>
	Vacuum Cup ø10 mm
	<b>XVCW-10</b>



### CONTROL UNIT

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

### HANDPIECE UNIT

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

## XFC series FEATURES TABLE

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

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

### XFC Series Optional Nozzles (PAT.)



#### XNSG series (for SO, SOL)

P / N	A		D		Applicable Package
	inch	mm	inch	mm	
XNSG 4.4 × 10	0.394	10	0.189	4.8	SO16
XNSG 5.6 × 13	0.591	15	0.224	5.7	SSOP8T
XNSG 7.6 × 15	0.630	16	0.283	8.2	SOL20/26, TSOP20/24
XNSG 7.6 × 18	0.748	19	0.283	8.2	TSOP24
XNSG 7.6 × 12.7	0.472	12	0.283	8.2	SOL20, TSOP28
XNSG 19 × 8	0.315	8	0.748	19.0	TSOP32
XNSG 8.6 × 18	0.748	19	0.343	8.7	TSOP28/32
XNSG 18.5 × 12	0.591	15	0.728	19.5	TSOP40/48
XNSG 13 × 28	1.142	29	0.531	13.5	PSOP44
XNSG 4.4 × 5	0.197	5	0.189	4.8	SO8

#### XNSG series (for SOJ)

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

#### XNPG series (for PLCC)

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

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

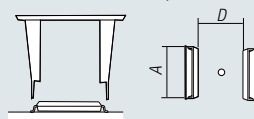
#### XNQG series (for QFP, BQFP)

P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNQG 12 × 12	0.472	12	0.551	14	0.472	12	0.551	14	QFP64, QFP48, QFP80, BQFP28
XNQG 14 × 14	0.591	15	0.677	17.2	0.591	15	0.677	17.2	SQFP100, TQF100
XNQG 14 × 20	0.591	15	0.665	16.9	0.827	21	0.906	23	SQFP12, QFP80, QFP100
XNQG 16 × 16	0.630	16	0.826	21	0.629	16	0.826	21	BQFP100T25, QFP163
XNQG 17.5×17.5	0.591	15	0.728	18.5	0.591	15	0.728	18.5	BQFP84
XNQG 24 × 24	0.827	21	0.953	24.2	0.827	21	0.953	24.2	BQFP132, FQFP176
XNQG 28 × 28	1.142	29	1.220	31	1.142	29	1.220	31	QFP128, SQFP208
XNQG 32 × 32	1.220	31	1.315	33.4	1.220	31	1.315	33.4	BFP184T, FQFP408
XNQG 37 × 37	1.220	31	1.457	37	1.220	31	1.457	37	BQFP196
XNQG 40 × 40	1.535	39	1.654	42	1.535	39	1.654	42	BQFP244

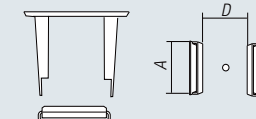
#### XNBG series (for BGA)

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

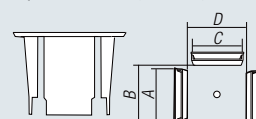
#### XNSG series SO, SOL



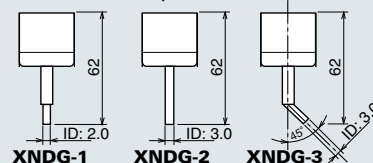
#### XNSG series SOJ



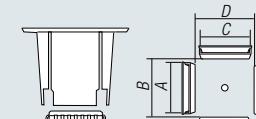
#### XNQG series QFP / BQFP



#### For Discrete Components



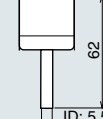
#### XNPG series PLCC



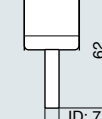
#### XNBG series BGA



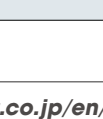
#### XNDG-1



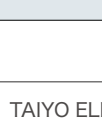
#### XNDG-2



#### XNDG-4



#### XNDG-5



# SURFACE-MOUNT / SMT PRODUCTS

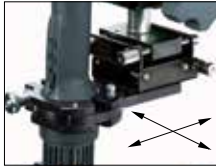
Fixes the XFC series handpiece securely.

## HANDPIECE HOLDERS XK-1/2



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

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



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

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

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



## PREHEATER XPR-610

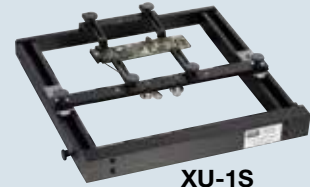
- Small preheater with a high-powered heater
- Heating area can be changed to fit the PCB size.
- Comes with simple board holder.
- Digital temperature display.
- PID for accurate temperature control.

Smooth motion. Easy mounting and removing.

## BOARD HOLDERS XU-1/XU-1S



XU-1



XU-1S



XU-1S handles irregularly-shaped PCBs. PCB mounting example.

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

Preheater with High-Powered Heater



## PREHEATER XPR-620

- Upgrade system by combining with Hot-Air Rework Station XFC series (With Optional Holder Post Fixing Screw Hole).
- Digital temperature display.
- PID for accurate temperature control.



Size of hot air vent can be adjusted by mounting the attached shutter.



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



## PREHEATER XPR-1000

- Large heating area quickly provides uniform heat on large multilayered PCBs.
- Comes with anti-warping tool.
- Upgrade system by combining with Hot-Air Rework Station XFC series (With Optional Holder Post Fixing Screw Hole).
- PID for accurate temperature control.



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



Speedy and accurate reworking of chip parts.

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



- MULTIFUNCTION TWEEZERS UNIT**  
Calibration, Sleep, Keylock, etc.
- TIP REPLACEMENT WITHOUT TOOLS**  
Easy to replace a hot tip without any other tools.
- GRIP WITH INTEGRATED TIP**  
Allows less deviation of both tips.
- ERGONOMIC GRIP DESIGN**  
Prevents fatigue

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



Tip (Tip cartridge) not included  
**CALIBRATION SERVICES**  
 We provide calibration and/or certification for a fee.



### Multifunction soldering tweezers unit

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

### Ergonomic grip design

Stroke adjustment for handling various sizes of parts.

### Grip with integrated tip

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



Soldering tweezers stand  
ST-28

### REPLACEMENT PARTS / OPTIONS

- Soldering Tweezers Unit  
**XST-80G**
- Soldering Iron Stand Sponge  
**ST-53SP**
- Soldering Iron Stand Cleaner  
**ST-40BW**
- Soldering Tweezers Stand  
**ST-28**



### 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)
Applicable Iron Unit	80 W standard iron unit, RX-80GAS (Sold separately) 36 W micro-soldering applicable iron unit, RX-81GAS (Sold separately)
Accessories	Soldering tweezers unit, XST-80G (included) 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)

### TWEEZERS UNIT

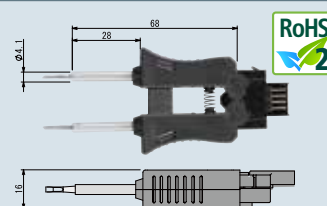
Voltage / Consumption	24 V AC / 72 W
Heater	Nichrome heater
Ground Resistance	2 Ω or less
Leak Voltage	Less than 2 mV
Cord Length	1.2 m
Length	120 mm ( w/o cord bushing, with tip cartridge)
Weight	48 g ( w/o cord, with tip cartridge)

Equivalent to IPC/EIA J-STD-001C

### REPLACEMENT PARTS / OPTIONS

Tips/heaters not sold apart from cartridges.

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



### SOLDERING TWEEZERS UNIT (Tweezers unit grip only)

## XST-80G

Tip (Tip cartridge) not included



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

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

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

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

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



### APPLICABLE MODELS - SAMPLE CONFIGURATION

2 soldering irons can be used.



# DESOLDERING PRODUCTS

## DESOLDERING PRODUCTS

SERVICE STATIONS  
 AUTOMATIC DESOLDERING STATION  
 PORTABLE DESOLDERING GUNS  
 DESOLDERING WICKS  
 DESOLDERING SUCKERS



**Omnifunctional machine for soldering, desoldering and reworking.**



### SERVICE STATION SVS-800AS

#### REWORK UNIT

The temperature can be set to max 550°C.

#### SOLDERING UNIT

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

#### DESOLDERING UNIT

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

#### INDIVIDUAL POWER SWITCHES

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



#### INDEPENDENT PUMPS

Desoldering and reworking operate simultaneously

#### 400% MORE SUCTION CAPACITY

With open-valve mechanism

#### CERAMIC HEATER WITH INTERNAL SENSOR

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

#### SUPERIOR TEMPERATURE-CONTROL CIRCUIT

To keep the temperature constant during desoldering

#### ZERO VOLT SWITCH CIRCUIT

Reduces noise during heater ON/OFF

#### REPLACEABLE CARTRIDGE FILTER

Makes changing the filter easy



Nozzles sold separately.

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



### SERVICE STATION SVS-580AS



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

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

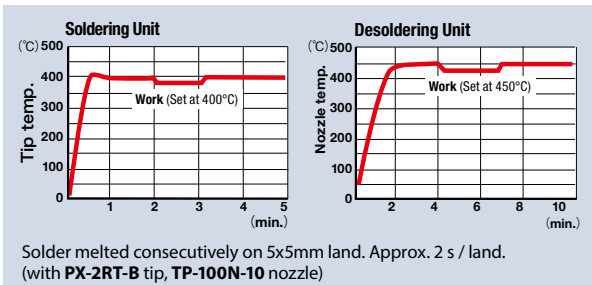
**SUPERIOR TEMPERATURE-CONTROL CIRCUIT**  
 To keep the temperature constant during desoldering

**ZERO VOLT SWITCH CIRCUIT**  
 Reduces noise during heater ON/OFF

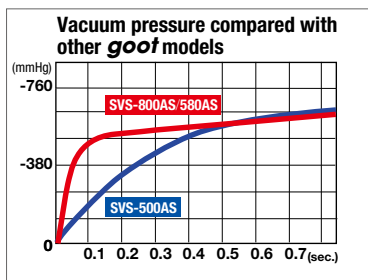
**REPLACEABLE CARTRIDGE FILTER**  
 Makes changing the filter easy

## PRODUCT SPECIFICATIONS / FUNCTIONS

### TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



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



### SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.



SVS-500AS

SVS-800AS/580AS

### OPEN-VALVE MECHANISM

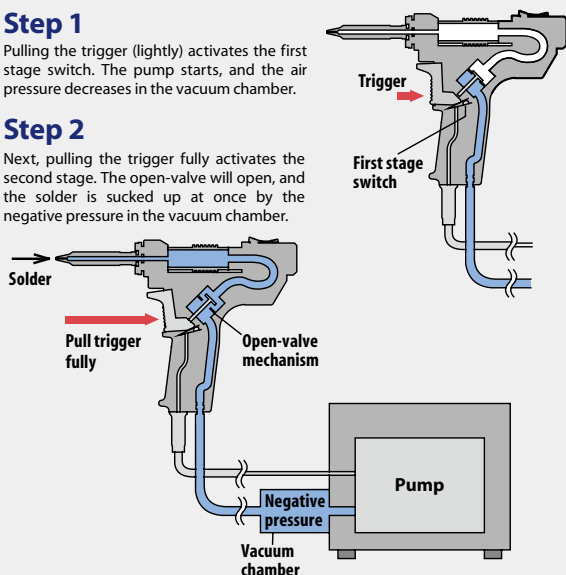
Two-stage trigger switch (PAT)

#### Step 1

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

#### Step 2

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



### SPECIFICATIONS

MODEL	SVS-800AS	SVS-580AS
Voltage	220-240 V AC 50/60 Hz	110 V, 120 V, 220-240 V AC 50/60 Hz
Power Consumption	670-760 W	200 W (110 V, 120 V)
	—	270-300 W (220-240 V)
Power Cord Length	1.5 m Inlet type	1.5 m
Temp.	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	
Vacuum	-0.08 MPa (-600 mmHg)	
Air Flow	5-25 L/min	—
Accessories	Cleaning pin TP-100CP-13 / Soldering iron stand ST-76	
Total Weight	9.3 kg	4.0 kg

### CONTROL UNIT

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

### SOLDERING UNIT

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

### DESOLDERING UNIT

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

### REWORK UNIT

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

This machine does not have vacuum pickup function.

For replacement tips, nozzles, and optional parts, refer to p.55 & p. 61



**ST-76**  
Soldering Iron Stand (included)

# DESOLDERING PRODUCTS

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

## AUTOMATIC DESOLDERING STATION TP-280AS



A wide range for terminals, connectors and flat ICs  
**Ceramic Heater with Internal Sensor**

To keep the temperature constant during desoldering  
**Superior Temperature-Control Circuit**

Reduces noise during heater ON/OFF  
**Zero Volt Switch Circuit**

Makes changing the filter easy  
**Replaceable Cartridge Filter**

**400% More Suction Capacity** (Compared with other *goot* models)

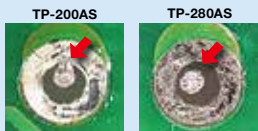
### NOZZLE TEMPERATURE-RECOVERY FEATURES

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

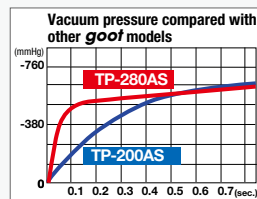
The open-valve allows the device to reach vacuum pressure of -0.06MP (approx. -450 mmHg) in only 0.1 second. (about 4 times faster than our **TP-200AS**).



### SUCTION CAPACITY COMPARISON



The arrow indicates solder residue.



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

## PORTABLE DESOLDERING GUNS TP-100/100AS



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

**ZERO VOLT SWITCH CIRCUIT**  
Reduces noise during heater ON/OFF

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

**REPLACEABLE CARTRIDGE FILTER**  
Makes changing the filter easy

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

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

## OPEN-VALVE MECHANISM

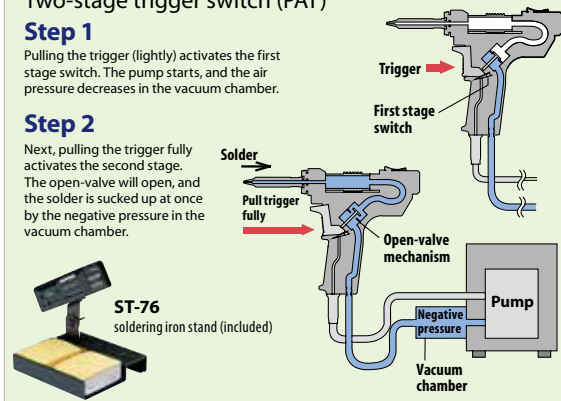
Two-stage trigger switch (PAT)

### 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.



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

## CONTROL UNIT

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

## DESOLDERING UNIT

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

For replacement tips, nozzles, and optional parts, refer to p. 61



For replacement tips, nozzles, and optional parts, refer to p. 61

## REPLACEMENT TIPS

### SVS-800AS/580AS

 PX-2RT-SB	 PX-2RT-B	 PX-2RT-BC
 PX-2RT-2BC	 PX-2RT-3BC	 PX-2RT-2C
 PX-2RT-3C	 PX-2RT-4C	 PX-2RT-5C
 PX-2RT-1.6D	 PX-2RT-2.4D	 PX-2RT-3.2D
 PX-2RT-4D	 PX-2RT-5D	 PX-2RT-5K
 PX-2RT-8S	 PX-2RT-6E	 PX-2RT-B

## ROUND SOLDER-PLATED TIP

 Standard type	 PX-2RT-2CR	 PX-2RT-3CR
 Round solder-plated type	 PX-2RT-4CR	 PX-2RT-5CR

## REPLACEMENT NOZZLES

### SVS-800AS/580AS/TP-280AS/TP-100(AS)

 TP-100N-08	 TP-100N-10*2	 TP-100N-15
 TP-100N-25	 TP-100N-S1	 TP-100N-S5*1
 TP-100N-S8	 Overall View (Standard)  Overall View (Slim)	

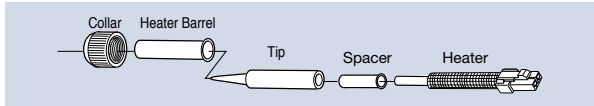
\*1 Model SVS-800AS, SVS-580AS, TP-280AS Standard Nozzle: TP-100N-S5  
 \*2 Model TP-100(AS) Standard Nozzle: TP-100N-10

## REPLACEMENT PARTS / OPTIONS

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

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

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



### REPLACEMENT PARTS FOR TP-280AS

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

### REPLACEMENT PARTS FOR TP-100/100AS

Heater TP-100H	Heater Barrel TP-100HP
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## COMMON PARTS

<b>Filter</b>	
Filter Set (3pcs) TP-100F	Steel Wool Only (3pcs) TP-100UL
Cartridge Set TP-100K	Felt B (10pcs) TP-100RF
Felt Set (3pcs) TP-100FT	
<b>Cleaning Pin Vice</b>	<b>Cleaning Pin</b>
Pin Vice Body (The drill bit is not included.) TP-100PV	ø0.7 mm (for ø0.8 & 1.0 mm nozzle) TP-100CP-07
Drill Bit ø0.7 mm TP-100DB-07	ø1.3 mm (for ø1.5 & 2.5 mm nozzle) TP-100CP-13
Drill Bit ø0.9 mm TP-100DB-09	
Drill Bit ø1.4 mm TP-100DB-14	
Drill Bit ø2.4 mm TP-100DB-24	

**Filter Set TP-100F**

Steel Wool, Felt A, Felt B (3pcs)

**Felt Set TP-100FT**

Felt A, Felt B (3pcs)

**Cartridge Set TP-100K**

Cartridge, Steel Wool, Felt A (1pc)

**Cleaning Pin Vice body**

Cleaning Pin, TP-100PV

# DESOLDERING PRODUCTS

## Conventional dispenser pack DESOLDERING WICKS



### CP series

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



Conventional dispenser pack

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

## ECONOMICAL PACKS OF 10PCS DESOLDERING WICKS

### CP series



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



Economical packs of 10pcs

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

## Dispenser pack with stainless steel mouth DESOLDERING WICKS



### CPY series

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



Dispenser pack with stainless steel mouth

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

## Bulk-length spool

### DESOLDERING WICKS CP-B series



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



Bulk-length spool

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

## HALOGEN-FREE DESOLDERING WICKS CPN SERIES

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

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



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

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

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

## DESOLDERING SUCKERS GS series



### GS-100

**SELF-CLEANING SHAFT**  
To prevent solder clogs

**PLUNGER LOCK FUNCTION**  
Portable, compact storage

**JUMBO SIZE** Large vacuum capacity



### GS-104

**SELF-CLEANING SHAFT**  
To prevent solder clogs

**PLUNGER LOCK FUNCTION**  
Portable, compact storage



### GS-108

**SELF-CLEANING SHAFT**  
To prevent solder clogs



### GS-150

**SELF-CLEANING SHAFT**  
To prevent solder clogs

**PLUNGER LOCK FUNCTION**  
Portable, compact storage

**JUMBO SIZE** Large vacuum capacity



### GS-154

**SELF-CLEANING SHAFT**  
To prevent solder clogs

**PLUNGER LOCK FUNCTION**  
Portable, compact storage



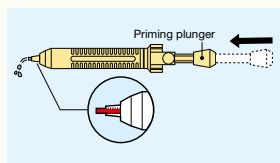
### GS-158

**SELF-CLEANING SHAFT**  
To prevent solder clogs



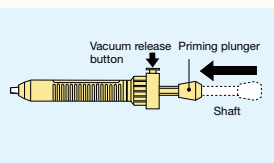
#### SELF-CLEANING SHAFT

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



#### PLUNGER LOCK FUNCTION

The plunger can be stored inside the shaft by pushing it in completely, and pressing the vacuum release button. Compact storage.



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



GS-108/158  
Hole for hook

## SPECIFICATIONS

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

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

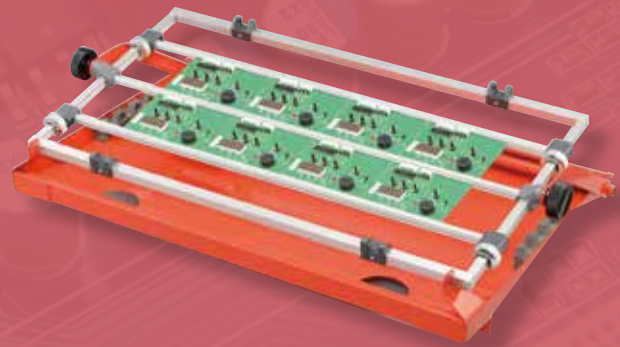
## REPLACEMENT NOZZLES

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

# SOLDERING ACCESSORIES

## SOLDERING ACCESSORIES

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



### Rub Tip Oxides Away

#### TIP RECOVERY ST-45

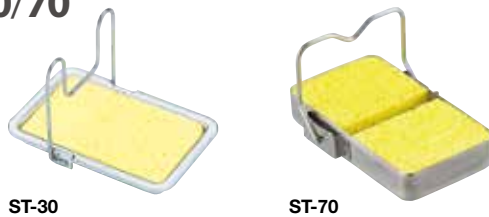
Rub tip oxides away, restore solder wetting capability.



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

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

#### TIP CLEANERS ST-30/70



ST-30

ST-70

ST-30 Sponge  
**ST-30SP**

ST-70 Sponge  
**ST-70/75SP**

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

### No water, so less heat loss.

#### TIP CLEANER ST-40

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



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

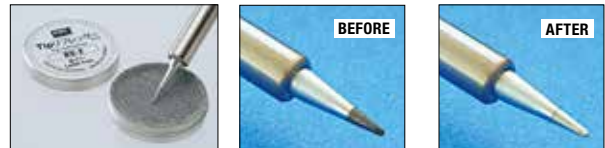
MODEL	Width	Height	Weight
ST-40	59 mm	60 mm	80 g

### Improves oxidized soldering tips.

#### TIP REFRESHER BS-2



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



#### HOW TO USE

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

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

### Value Package

#### STARTER KIT (ELECTRONICS)

#### SG-1 Recommended for Beginners

A great value set with tools and materials for soldering. With this set and corresponding soldering iron, you can start soldering soon. Use with a soldering iron, sold separately.

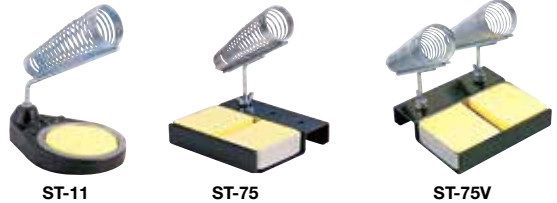


MODEL	SG-1
INCLUDED ITEMS	Solder for Electronics Desoldering Wick CP-2015 Tapered Reamer Tip Cleaner ST-30 Heat Clip H-1L





For any type of soldering iron:  
 nichrome or ceramic.  
**SOLDERING IRON STANDS**  
**ST-11/75/75V/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-75V	110 mm	125 mm	125 mm	480 g
ST-76	102 mm	110 mm	140 mm	490 g
ST-77	68 mm	160 mm	148 mm	400 g

Only for ceramic soldering iron. HRC series compatible  
**SOLDERING IRON STAND ST-27**



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

Just for XST-80 series.  
**SOLDERING TWEEZERS STAND ST-28**  
 Built especially for XST-80 series.



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

Superior stability



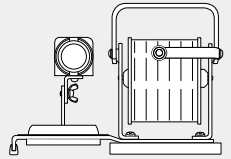
For ceramic-heater soldering iron only  
 Cannot be used for HRC series

**SOLDER REEL HOLDERS**  
**ST-51/52/53**

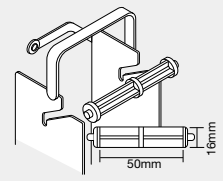
● Maximum load of 1 kg. Heavy base ensures extra stability. Guide spring prevents solder tangle. Comes with carrying handle. Solder is not included.



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



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



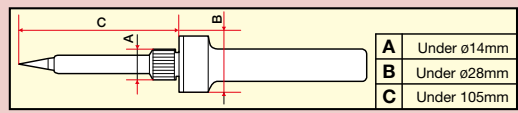
MODEL	Width	Depth	Height	Weight
ST-51	92 mm	120 mm	110 mm	620 g
ST-52			194 mm	870 g
ST-53	163 mm	150 mm	126 mm	1100 g

**REPLACEMENT PARTS / OPTIONS**

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



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



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

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

# SOLDERING ACCESSORIES

## ■ Holds large PCBs firmly PCB Holder (PCB Assembly Jig) ST-200

ANTI  
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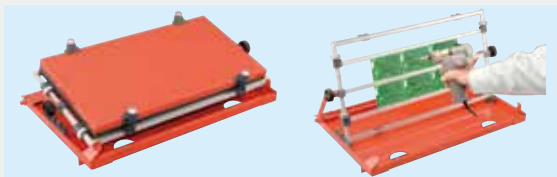
**Holds large PCBs firmly**  
Useful for mounting of components, cutting lead wire, soldering, etc.

**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.



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

ST-200 Sponge  
ST-200SP

## ■ Ideal for hobbyists Your trusty helper MINI WORKSTAND ST-94

RoHS  
2

- Approx. 2X, 60 mm lens is good for precision work.
- Covered clips hold your work firmly.
- Recommended range of arms (for best stability): 5-145 mm
- Maximum clip tip opening width: Approx. 12 mm



Convenient mini tray



## ■ Reverse-action tweezers hold firmly Your trusty helper TWEEZERS STAND ST-95

RoHS  
2

- Ideal for crafts. Four rotating joints.
- Reverse-action tweezers length: Approx. 120mm
- Maximum opening of tweezers: Approx. 10mm



Convenient mini tray



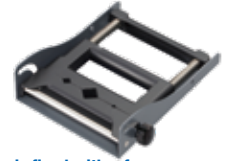
MODEL	Size	Weight
ST-94	110 (W) x 105 (H) x 130 (D) mm	460 g
ST-95	70 (W) x 140 (H) x 145 (D) mm	330 g

## ■ Round, square, or flat objects. Clamps in one action MULTI CLAMP ST-85

RoHS  
2

ANTI  
STATIC

- Clamps firmly with strong silicone rubber.
- Clamps firmly in one action. ● Easy to carry!
- Can be folded for storage. ● Angle fixing screw can be used on either side.



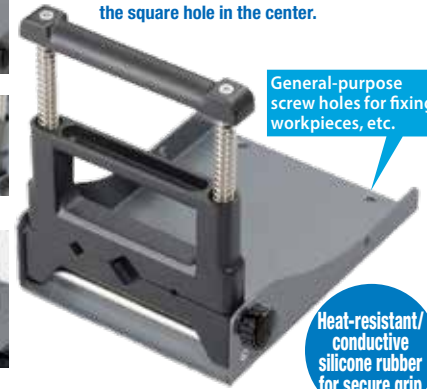
A  $\phi 18$  mm connector is fixed with a force of approximately 18N when clamped at the square hole in the center.



General-purpose screw holes for fixing workpieces, etc.



Heat-resistant/conductive silicone rubber for secure grip



MODEL	ST-85
Max. width for clamp	72 mm
Max. height for clamp	35 mm
Angle adjustment	0-100° approx.
Max. clamping force	Approx. 18N
Vise Heat Resistant Temperature	Polycarbonate: Approx. 130°C Conductive Silicone Rubber: Approx. 220°C
Dimensions	135 (L) x 115 (W) x 35 (H) mm, folded
Weight	Approx. 360 g

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

### MAGNIFIER ST-93

ST-93 has small & large flexible clips.



Stable base makes safe soldering work.

MODEL	Width of Clip	Width	Depth	Height	Weight
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

RoHS  
2

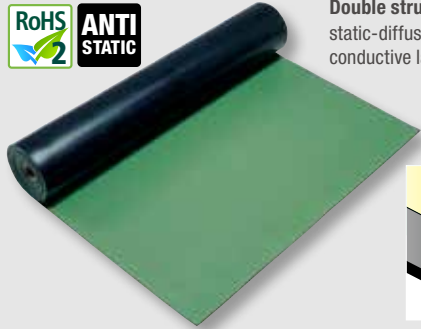
Makes soldering work easier by holding small components.



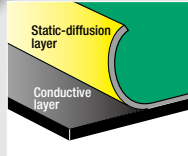
MODEL	Width of Clip	Width	Depth	Height	Weight
ST-80	35 mm	80 mm	90 mm	70 mm	110 g

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

## ANTI-STATIC MATS WD-130/WD-13



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



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

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

### OPTION

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



WD-1E

WD-3020

WD-1P

## Color LED measurement display. SURFACE RESISTIVITY METER WA-400

Compact and portable.

### CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

#### RTT Test Jack

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



#### RTG Test Jack

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



#### Surface Resistivity Electrodes

##### Surface Resistivity Testing

Place the meter on the test surface.

##### RTG Test

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

Range	Classification	LED Display
Less than $10^9 \Omega (\Omega/\text{sq})$	Conductive	Green
Between $10^9$ and $10^{11} \Omega (\Omega/\text{sq})$	Dispassive	Orange
More than $10^{12} \Omega (\Omega/\text{sq})$	Insulative	Red

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

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

Avoid electrostatic discharge and protect sensitive electronic devices.

## WRIST STRAPS WS-11/12



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

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

### REPLACEMENT PARTS / OPTIONS

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

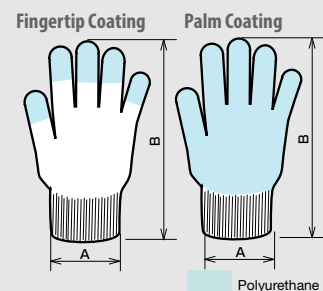
Low dust-shedding with wooly nylon.

## LOW-DUST GLOVES WG-1/2 series Uses wooly nylon that generates less dust from gloves.



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

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



Polyurethane

# SOLDERING ACCESSORIES

Collection efficiency to 99.97%

## AIR PURIFYING TYPE FUME VACUUM SS-80AS

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

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STATIC**



One self-standing duct nozzle is included as standard.

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



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



Easy to move and install because of 4 caster wheels.

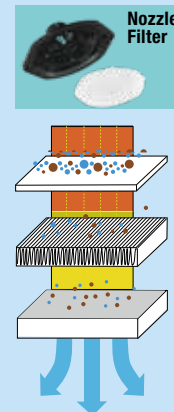
- Air volume has 10 levels. Fine adjustment and quiet operation.
- Self-standing duct hose can be shortened/lengthened.
- With HEPA filter, high-performance can be achieved.

### REPLACEMENT PARTS / OPTIONS

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

MODEL	SS-80AS
Voltage	110-120 V, 220-240 V AC 50/60 Hz
Power Consumption	170 W
Noise Level	53 dB (at 1m from the unit)
Smoke Exhaust	2 ducts (ø75 mm)
Collection Efficiency	95% 0.3 μm (Middle-class filter)
Duct Hose Length	1.35 m
Suction Capacity	150 m <sup>3</sup> /h with 2 duct hoses
Power Cord Length	1.5 m inlet type
Dimensions/ Weight	250 (W) x 490 (H) x 425 (D) mm / 14.5 kg
Accessories	Duct Hose <b>SS-80D</b> , Nozzle <b>SS-80N</b> , Nozzle Filter <b>SS-80NF</b> , Duct Cap <b>SS-80C</b> , Main Filter <b>SS-80MF</b> , Pre-Filter <b>SS-80PF</b> , Middle Filter, Dedicated Remote Control

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



#### 1. Nozzle Filter

It absorbs large dust particles and suspended matter in the air, and protects the lower layer filter. (Replacement: about 1 to 3 days)

#### 2. Pre-Filter

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

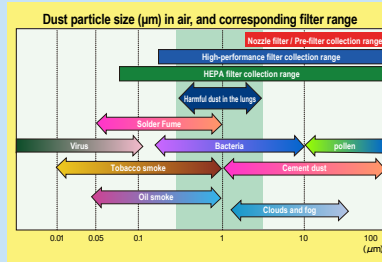
#### 3. Middle Filter

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

#### 4. Main Filter

You can choose from HEPA or high-performance type. Generous amount of high-performance activated carbon absorbs odors and some harmful gases. (Replacement: 6 to 12 months)

For the factory with a lot of soldering robots



# SOLDERING WORK MATERIALS

Provides improved soldering performance.

## SOLDERING PASTES BS-850

Good for PCB lead wires and electric components.



Improves wettability.

## SOLDERING PASTES (Hobby Use) BS-10/15

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



MODEL	BS-10	BS-15	BS-850
NET Content	10 g	50 g	500 g
Composition	Vaseline: 80-90 wt%		Rosin: 40-50 wt%
	Zinc chloride: 5 wt%		2-Methyl-2,4-Pentenediol: 40-50 wt%
	Water: 1-10 wt%		Organic acid: Less than 1 wt%
	Paraffin: 1-10 wt%		Thixotropic agent: 4-6 wt%
	Ammonium chloride: 1-5 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.



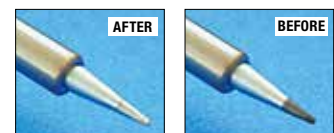
Cap with brush

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

Improves oxidized soldering tips. **TIP REFRESHER BS-2**



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



Industry-standard composition



## LEAD-FREE SOLDERS SF-A series

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



Low-silver



## LEAD-FREE SOLDERS <Low-silver> SF-B series

MODEL	Composition	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-B4006	99-0.3-0.7% (Sn-Ag-Cu)	216-227°C	ø0.6 mm	225 m	400 g	Rosin core
SF-B4008			ø0.8 mm	127 m		
SF-B4010			ø1.0 mm	81 m		
SF-B4012			ø1.2 mm	56 m		

Silver-free



## LEAD-FREE SOLDERS <Silver-free> SF-C series (Spoolless)



MODEL	Item	Sn	Cu	Ni	Ge	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-C7006	Solder for High-density Mounting	Other	0.7%	0.05%	≤0.01%	227°C	ø0.6 mm	42 m	70 g	Rosin core
SF-C7008	Solder for Precision PCBs						ø0.8 mm	22 m		
SF-C7010	Solder for Electronic Work						ø1.0 mm	14 m		
SF-C7012	Solder for Model Work						ø1.2 mm	10 m		
SF-C7016	Solder for Electrical Parts						ø1.6 mm	5.4 m		
*SF-C7016N	Solder for Metal Working*						ø1.6 mm	4.7 m		

\*SF-C7016N does not contain rosin. It requires sheet-metal flux.

## LEAD-FREE SOLDERS <Silver-free> SD-301/SD-7 series (Spoolless)

MODEL	Item	Sn	Cu	Ni	Ge	M.T.	Dia.	Length (reference)	Weight	Rosin
SD-301	Spiral Solder for PCBs	Other	0.7%	0.05%	≤0.01%	227°C	ø1.0 mm	0.8 m	3 g	Rosin core
SD-71	Solder for High-density Mounting						ø0.6 mm	5.2 m	9 g	
SD-72	Solder for Precision PCBs						ø0.8 mm	3.9 m	12 g	
SD-73	Solder for Electronic Work						ø1.0 mm	3.2 m	16 g	
SD-74	Solder for Model Work						ø1.2 mm	2.8 m	18 g	
SD-75	Solder for Electrical Parts						ø1.6 mm	2.2 m	25 g	
*SD-76	Solder for Metal Working*						ø1.6 mm	2.1 m	31 g	

\*SD-76 does not contain rosin. It requires sheet-metal flux.

Halogen-free



## LEAD-FREE SOLDERS <Halogen-free> SF-N series

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



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

Lead-based



## LEAD-BASED SOLDERS SE series



MODEL	Composition (Sn-Pb)	M.T.	Dia.	Length (reference)	Weight	Rosin
SE-55012	50-50%	183-215°C	ø1.2 mm	60 m	500 g	Rosin core
SE-55016			ø1.6 mm	35 m		
SE-56006			ø0.6 mm	240 m		
SE-56008	60-40%	183-190°C	ø0.8 mm	135 m	500 g	Rosin core
SE-56010			ø1.0 mm	85 m		
SE-56012			ø1.2 mm	60 m		

## LEAD-BASED SOLDERS SE-7 series (Spoolless)

MODEL	Item	Composition (Sn-Pb)	M.T.	Dia.	Length (reference)	Weight	Rosin
SE-75012	Solder for Model Work	50-50%	183-215°C	ø1.2 mm	8.0 m	70 g	Rosin core
SE-75016	Solder for Electric Parts			ø1.6 mm	5.0 m		
SE-76006	Solder for High-density Mounting	60-40%	183-190°C	ø0.6 mm	34.0 m	70 g	Rosin core
SE-76008	Solder for Precision PCBs			ø0.8 mm	19.0 m		
SE-76010	Solder for Electronic Work			ø1.0 mm	12.0 m		
SE-76012	Solder for Acoustic Components			ø1.2 mm	8.0 m		
SE-7AG08	Solder for Silver-plated Parts	60-37.5-2.5 (Ag)%	178-211°C	ø0.8 mm	19.0 m	Non-rosin core	
*SE-7ST16	Solder for Stainless*	63-37%	183-184°C	ø1.6 mm	5.0 m		
*SE-7BA16	Solder for Sheet Metal*	45-55%	183-277°C	ø1.6 mm	4.0 m		

\*SE-7ST16 & SE-7BA16 does not contain rosin. It requires sheet-metal flux.



## LEAD-BASED SOLDERS SD-101/SD-8 series (Spoolless)

MODEL	Item	Composition (Sn-Pb)	M.T.	Dia.	Length (reference)	Weight	Rosin
SD-101	Spiral Solder	50-50%	183-215°C	ø1.2 mm	0.7 m	5 g	Rosin core
SD-81	Solder for High-density Mounting	60-40%	183-190°C	ø0.6 mm	5.5 m	11 g	
SD-82	Solder for Precision PCBs			ø0.8 mm	4.1 m	14 g	
SD-83	Solder for Electronic Work			ø1.0 mm	3.0 m	18 g	
SD-84	Solder for Silver-plated Parts			60-37.5-2.5 (Ag)%	178-211°C	ø0.8 mm	
SD-85	Solder for Acoustic Components	60-40%	183-190°C	ø1.2 mm	2.6 m	22 g	
SD-86	Solder for Model Work	50-50%	183-215°C	ø1.2 mm	2.6 m	22 g	
SD-87	Solder for Electric Parts			ø1.6 mm	2.2 m	34 g	
*SD-88	Solder for Sheet Metal*			45-55%	183-227°C	ø1.6 mm	2.2 m
*SD-89	Solder for Stainless*	63-37%	183-184°C	ø1.6 mm	2.2 m	34 g	Non-rosin core

\*SD-88 and SD-89 does not contain rosin. It requires sheet-metal flux.



## HEATED TOOLS

HOT BONDS  
HOT STICKS  
HOT KNIVES

HOT SLICER  
FOAM CUTTER

### Glue things easily.

#### HOT BOND HB-80

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

**Built-in Safety Fuse**



MODEL	HB-80
Voltage	110-240 V AC 50 / 60 Hz
Power Consumption	14 W
Nozzle Temp.	160°C
Heater	PTC Heater
Power Cord Length	1.4 m
Dimensions	185 (W) x 155 (H) mm
Weight	220 g
Accessories	Hot Sticks 4pcs (Approx. $\phi$ 11 x 100 mm), Wire Stand

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

#### FEATURES

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

#### APPLICATIONS

Good for interior design, display, wrapping and packing, bookbinding, repair of cracks/shoes/bags, etc.

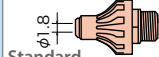
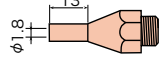
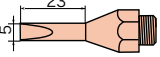



#### NOTE

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

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

#### NOZZLES

	HB-80N-B	HB-80N-SB	HB-80N-2D
			
Standard	$\phi$ 1.8	$\phi$ 1.8	$\phi$ 1.8
		13	23

### For hobby use

#### MINI HOT BOND HB-45

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



**Built-in Safety Fuse**

MODEL	HB-45
Voltage	110-240 V AC 50 / 60 Hz
Power Consumption	7 W
Nozzle Temp.	160°C
Heater	PTC Heater
Dimensions	130 (W) x 115 (H) mm
Weight	100 g
Accessories	Hot Sticks 3pcs (Approx. $\phi$ 7 x 100 mm), Wire Stand

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

#### Hot sticks (solid glue) for Hot Bond



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

Equivalent to Flame Retardant Standard UL94 V-0

MODEL	Color	Length/mm	Weight/g	Quantity
HB-150S-RS	white	Approx. $\phi$ 11x150	Approx. 150	10
HB-300S-5KRS		Approx. $\phi$ 11x3000	5k	Approx. 160

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



HB-300S-5KRS

HB-150S-RS

#### HB-40S Hot stick for HB-45

MODEL	Color	Length/mm	Weight/g	Quantity
HB-40S	TP	Approx. $\phi$ 7x100	Approx. 50	12
HB-40S-B1			300	Approx. 72
HB-40S-1K			1 k	Approx. 250
HB-40S-10K			10 k	Approx. 2,500



HB-40S-B1

HB-100S-B1

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

MODEL	Color	Length/mm	Weight/g	Quantity
HB-100S	TP	Approx. $\phi$ 11x100	Approx. 100	10
HB-100S-B1			Approx. 350	36
HB-100S-1K			1 k	Approx. 100
HB-100S-10K			10 k	Approx. 1000
HB-200S	Approx. $\phi$ 11x200	Approx. 230	Approx. 230	12
HB-200S-1K			1 k	Approx. 50
HB-200S-10K			10 k	Approx. 520



HB-200S

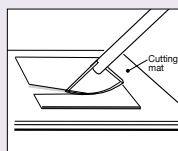
HB-100S-1K

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

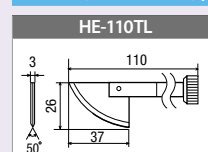


● Best for heat slicing of nylon garden nets, fish nets, promotional flags, etc. ● The sliced end does not fray.

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



#### REPLACEMENT PARTS / OPTIONS

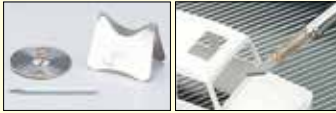


HE-110 Heater  
CXR-100H

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

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

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



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

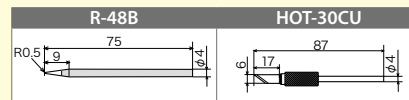
### Cutting ability within 5 seconds.

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

● Cross section view of sample material  
 <Round bar>  
 Diameter (mm)  
 <Board>  
 10mm  
 Thickness (mm)

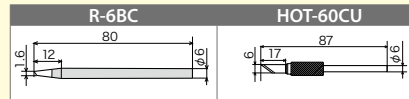
## REPLACEMENT PARTS / OPTIONS

### HOT-30R



HOT-30R Heater  
**KS-30H**

### HOT-60R



HOT-60R Heater  
**KS-60H**

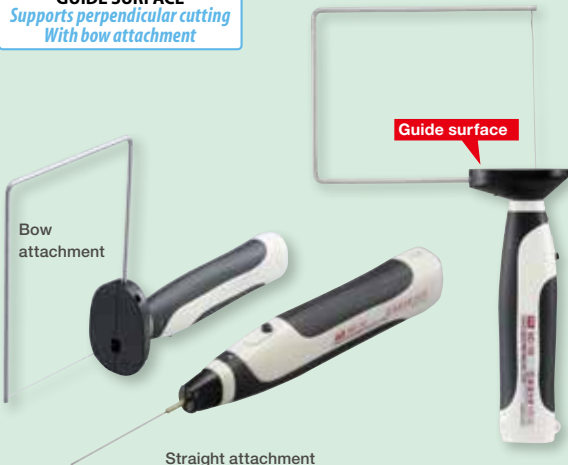
MODEL	HOT-30R	HOT-60R
Voltage	110 V, 120 V, 220 V, 240 V AC 50/ 60 Hz	
Power Consumption	Please see <b>KS-30R</b> , p.4	
Heater	Nichrome Heater	
Length	230 mm	250 mm
Weight	50 g	65 g

\*The length does not include the cord bushing. The weight does not include the cord.  
 This model does not come with 3-prong/3-wire power cord.

## For art & craft cutting of styrofoam 4-BATTERY FOAM CUTTER SC-10



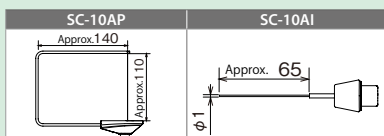
**GUIDE SURFACE**  
 Supports perpendicular cutting  
 With bow attachment



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



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

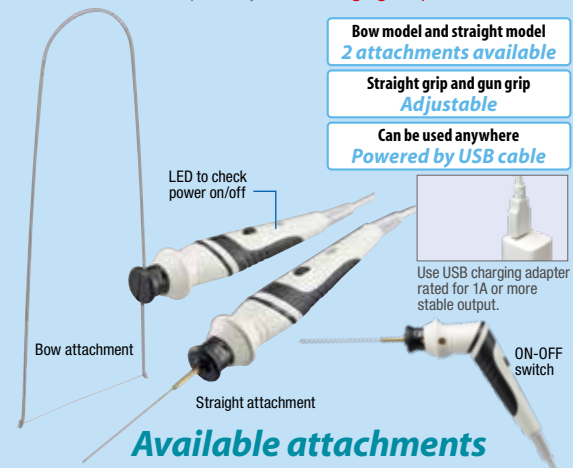


Nichrome wire (6 pcs)  
**SC-10APH**

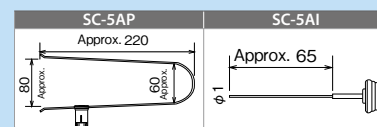
## For art & craft cutting of styrofoam USB-POWERED STYROFOAM CUTTER SC-5



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



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



Nichrome wire 1 m  
**SC-5APH**

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

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

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

# HAND TOOLS SUPER CUTTERS/HOBBY HAND TOOLS



## HAND TOOLS

- |                             |                          |
|-----------------------------|--------------------------|
| HEAT CLIPS                  | PRECISION NIPPERS        |
| SOLDER ASSIST               | 1.5 mm PLATFORM NIPPERS  |
| MAINTENANCE TOOL SETS       | PRECISION PLIERS         |
| PRECISION TWEEZERS          | MANUAL DEPANELING TOOLS  |
| SUPER CUTTERS               | CRIMPING PLIERS          |
| AIR-POWERED DEPANELING TOOL | WIRE STRIPPERS           |
| HOBBY NIPPERS               | PRECISION WIRE STRIPPERS |
| HOBBY PLIERS                | CABLE STRIPPERS          |

Protects components from excess heat from soldering iron.

### HEAT CLIPS [HEAT SINK] H-1S/1L/2SL



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

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



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

Convenient set of 6 tools for assembling and repairing PCBs.



### SOLDER ASSIST

#### SA-10

NOTE: Not sold individually.

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

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

### SUGGESTED USES

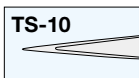
 <b>Lever</b> Removes ICs or condensers.	 <b>Chip Holder</b> Holds chips and micro components for soldering work.
 <b>Hook</b> Removes components such as resistors.	 <b>Knife</b> Removes PCB mask ink or rust, or cuts unnecessary circuits.
 <b>Brush</b> Removes solder scraps, PCB mask ink or rust.	 <b>Scraper</b> Removes PCB mask ink or rust, or strips lead wires.
 <b>Fork Shaft</b> Bends lead wires in required directions.	 <b>Reamer</b> Opens or enlarges holes.
 <b>Needle</b> Removes flat ICs.	



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

**PRECISION TWEEZERS [STANDARD]  
TS-10**

Anti-magnetic stainless steel 

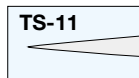


MODEL	Tip Shape	Length	Weight
TS-10	Standard	Approx. 120 mm	Approx. 19 g

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

**PRECISION TWEEZERS [LONG]  
TS-11**

Anti-magnetic stainless steel 

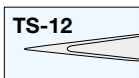


MODEL	Tip Shape	Length	Weight
TS-11	Long	Approx. 140 mm	Approx. 15 g

**Small-sized tweezers in standard model. Best with delicate work.**

**PRECISION TWEEZERS [SHORT]  
TS-12**

Anti-magnetic stainless steel 

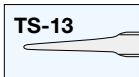


MODEL	Tip Shape	Length	Weight
TS-12	Standard	Approx. 115 mm	Approx. 15 g

**Round tip prevents damage to components.**

**PRECISION TWEEZERS [ROUND]  
TS-13**

Anti-magnetic stainless steel 

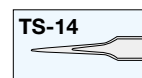


MODEL	Tip Shape	Length	Weight
TS-13	Round	Approx. 120 mm	Approx. 19 g

**Extra-fine tip with sharp and strong edges.**

**PRECISION TWEEZERS [ULTRAFINE]  
TS-14**

Anti-magnetic stainless steel 

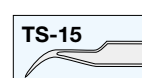


MODEL	Tip Shape	Length	Weight
TS-14	Ultrafine	Approx. 115 mm	Approx. 17 g

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

**PRECISION TWEEZERS [EAGLE BEAK]  
TS-15**

Anti-magnetic stainless steel 



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

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

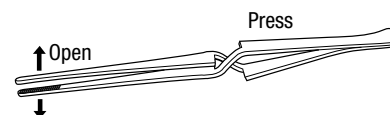
**PRECISION TWEEZERS [REVERSE ACTION]  
TS-16/17**

Stainless steel 

**TS-16**



**TS-17**



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

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

**TL-10**



**TL-20**



**TL-20 Set Contents**

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

**TL-10 Set Contents**

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

## Depaneling tool for cutting PCB tabs.

### AIR-POWERED DEPANELING TOOL YN-300



Blade not included.

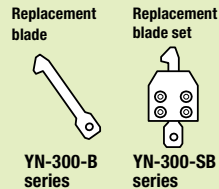


● Uses compressed air. ● Easy continuous operation with compressed air. ● Suitable for many kinds of PCBs in small lot production.

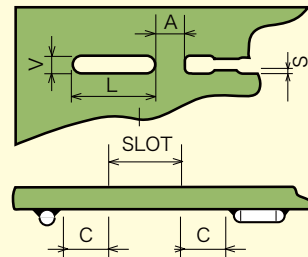
MODEL	YN-300
Compressed Air Pressure	6-7 Bar-Tube ø6
Consumption	3.5 NI/min
Blade Material	Tempered steel
Approximate Dimensions (not including the blade)	Approx. 210 x 35 mm
Weight	400 g



#### Replacement blade/ Replacement blade set



#### PCB Specifications



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

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

#### Replacement blade

Replacement blade 1.5 mm (LDPP15)
<b>YN-300-B15</b>
Replacement blade 1.8 mm (LDPP18)
<b>YN-300-B18</b>
Replacement blade 2.0 mm (LDPP20)
<b>YN-300-B20</b>

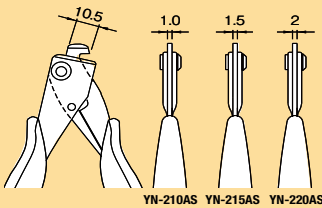
#### Replacement blade set

Replacement blade set 1.5 mm (LPDPP15)
<b>YN-300-SB15</b>
Replacement blade set 1.8 mm (LPDPP18)
<b>YN-300-SB18</b>
Replacement blade set 2.0 mm (LPDPP20)
<b>YN-300-SB20</b>

## For depaneling PCBs MANUAL DEPANELING TOOL YN-210AS/215AS/220AS



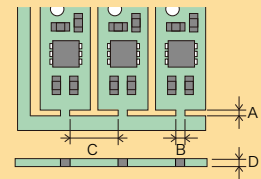
● For depaneling PCBs with slits, or perforations.  
● Only light force required. Less flex, and less stress. ● Applicable for CEM-3 PCBs



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

#### Specifications

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



## Light & Compact. Suitable for hobby work.

### HOBBY HAND TOOLS YN/YP series



#### MINI NIPPERS YN-1



#### MINI NIPPERS (FOR PLASTIC) YN-3



#### MINI PLIERS YP-1



#### MINI NIPPERS YN-4



#### MINI PLIERS YP-3



#### MINI PLIERS YP-4



#### MINI NIPPERS

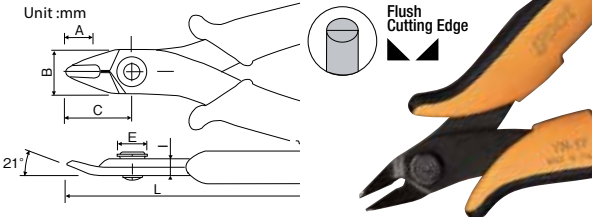
MODEL	Max. Cut Dia.	Length
YN-1	ø2.0 mm (copper wire)	118 mm
YN-3	ø2.0 mm (copper wire)	118 mm
YN-4	ø1.8 mm (copper wire)	125 mm

#### MINI PLIERS

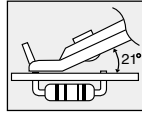
MODEL	Max. Cut Dia.	Length
YP-1	ø1.2 mm (soft iron wire)	124 mm
YP-3	ø1.6 mm (soft iron wire)	145 mm
YP-4	ø1.6 mm (soft iron wire)	160 mm

# HAND TOOLS PRECISION NIPPERS

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



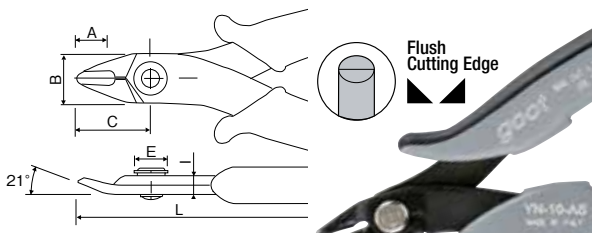
● Flat cutting edges that do not put any load on the body of the component. For cutting precision components, lead wires, etc. ● The YN-10 and 12 have a safety clip for holding wire scraps securely after cutting.



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

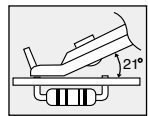
MODEL	Max. Cut Dia.	A	B	C	E	I	L
YN-10	ø1.3	8	13.5	20	9	6	140
YN-12	ø1.0	8	10	18	9	5	133
YN-13	ø0.8	8	9.5	18	9	4	133
YN-17	ø1.3 (Thin blade)	8	13.5	20	9	5	138
YN-20	ø1.6	8	13.5	20	9	6	139

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



Unit:mm

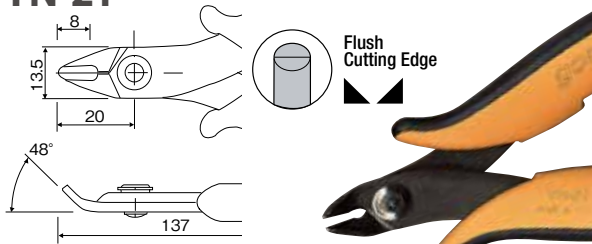
● Flat cutting edges that do not put any load on the body of the component. For cutting precision components, lead wires, etc. ● The YN-10AS has a safety clip for holding wire scraps securely after cutting.



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

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

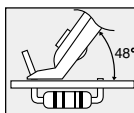
## For High-Density PCBs. PRECISION NIPPERS YN-21



Unit:mm

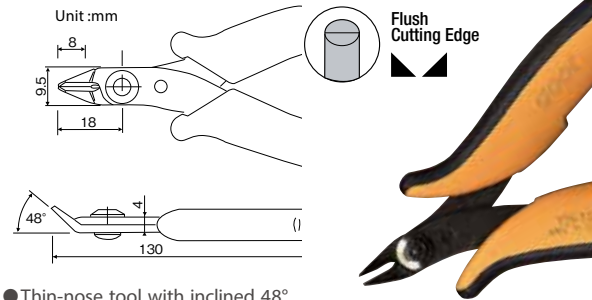
● Inclined 48° blades. For specific work such as the leads of surface-mounted components.

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



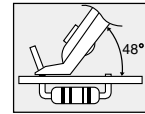
MODEL	Max. Cut Dia.	Length
YN-21	ø1.3 mm	137 mm

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



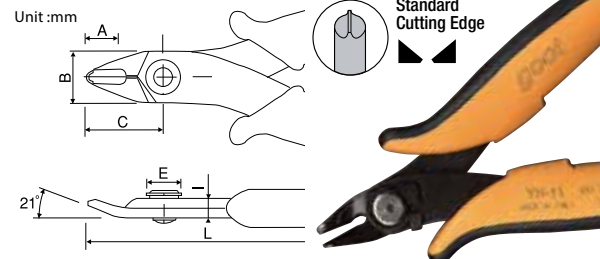
● Thin-nose tool with inclined 48° blades. Ideal for hard-to-reach areas. ● Clearly cuts flat IC leads by aligning the cutting edge with the circuit board.

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



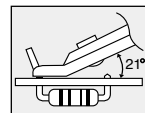
MODEL	Max. Cut Dia.	Length
YN-15	ø0.6 mm	130 mm

## Micro Nippers STANDARD CUTTING SURFACE YN-11/18



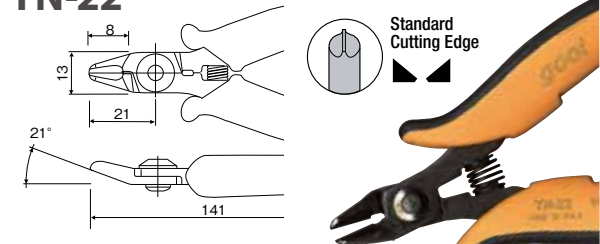
● Maximum cutting diameter of 1.6 and 2.0 mm. ● The YN-11 has a safety clip for holding wire scraps securely after cutting.

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



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

## Heavy Duty Nippers STANDARD CUT YN-22



Unit:mm

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

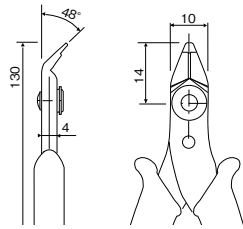
**NOTE:** Use only for cutting copper wire.



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

# HAND TOOLS PRECISION NIPPERS

## For integrated circuit pins. PRECISION NIPPERS YN-14



Flush Cutting Edge



Unit: mm

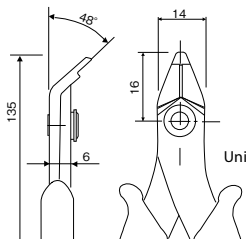
- Angled at 48° for the cutting of integrated circuit pins.
- Held in the reverse manner to standard nippers, the YN-14 cuts the flat IC leads that face away from the user.



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

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

## For integrated circuit pins. PRECISION NIPPERS YN-16



Flush Cutting Edge



Unit: mm

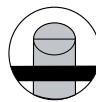
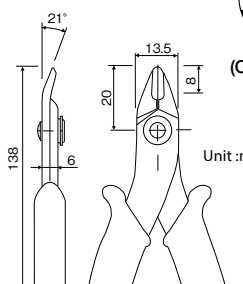
- Angled at 48° for the cutting of integrated circuit pins.
- Held in the reverse manner to standard nippers, the YN-16 cuts the flat IC leads that face away from the user.



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

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

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



Flush Cutting Edge

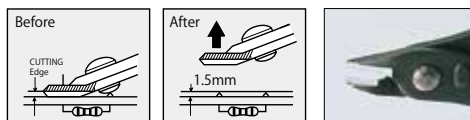


Unit: mm

(Cuts leads 1.5mm above PCB)

- Cuts wires 1.5 mm from the PCB surface.

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

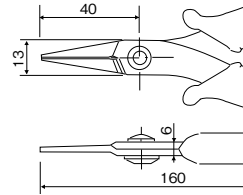


MODEL	Max. Cut Dia.	Length
YN-104	ø1.3 mm	138 mm

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



Unit: mm



Tip Shape

● YP-10



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

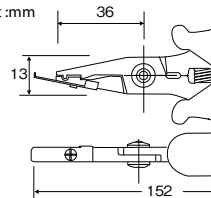


MODEL	Inner Surface	Length
YP-10	w/ notches	160 mm

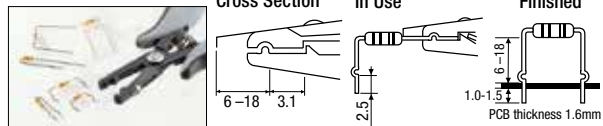
## Crimps and cuts. CRIMPING PLIERS YP-201AS



Unit: mm



- 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	ø0.8 mm	152 mm



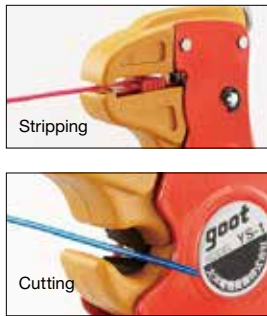
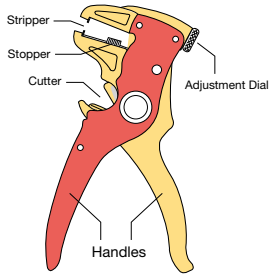
# HAND TOOLS WIRE STRIPPERS

## 2 in 1! Wire stripper and cutter. WIRE STRIPPER YS-1



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

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

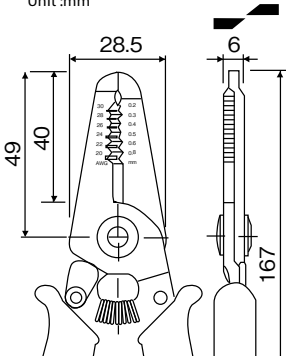


MODEL	Max. strip section	Length
YS-1	0.2–5.5 mm <sup>2</sup>	170 mm

## Three functions: Cutters, Wire stripper, Pliers. PRECISION WIRE STRIPPERS YS-2/3



Unit: mm



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

NOTE: Use only for cutting copper wire.

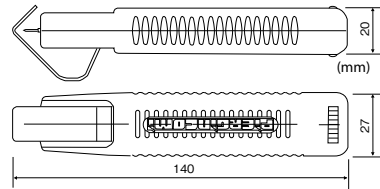
MODEL	Max. Strip Dia.	Length
YS-2	ø0.25, 0.3, 0.4, 0.5, 0.6, 0.8 mm	167 mm
YS-3	ø0.8, 1.0, 1.3, 1.6, 2.0, 2.6 mm	

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

### CABLE STRIPPERS YS-100/101

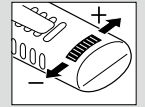


- Cuts cable jacket simply and accurately.
- Adjustable cutting depth to match the thickness of the cable jacket.
- Spare blades stored in the handle.
- Safe design with covered blade.
- The blade moves automatically in the cutting direction.



#### HOW TO ADJUST THE BLADE

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



NOTE: Cannot be used with oval-shaped cables.

#### HOW TO USE

- Push up the hook metal.
- Position A Cable Face

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

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

#### REPLACEMENT PARTS / OPTIONS

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



## B

BS-10/15/850	SOLDERING PASTES	68
BS-2	TIP REFRESHER	68
BS-H20B	ANTI-SEIZE	68

## C

CA-30R/40R	PORTABLE SOLDERING IRON WITH CAP	37
CP/CPY/CPN series	DESOLDERING WICKS	62
CS-21/31	PRECISION PCB SOLDERING IRONS	35
CXR-31/41	PRECISION-COMPONENT SOLDERING IRONS	34
CXR-100	HIGH-POWER SOLDERING IRONS	34

## F

FA-1000/1100	SOLDERING SYSTEM	8
FD series	AUTOMATIC SOLDER FEEDER	44

## G

GP-501	GAS-POWERED SOLDERING IRON	40
GP-510	GAS-POWERED SOLDERING IRON	41
GP-510SET	GAS-POWERED SOLDERING IRON SET	41
GS series	DESOLDERING SUCKERS	63
GSR series	SMT REWORK REPAIR SYSTEM	52

## H

H-1S/1L/2SL	HEAT CLIPS [HEAT SINK]	72
HB-100S/200S	HOT STICKS	70
HB-150S-RS	HOT STICKS	70
HB-300S-5KRS	HOT STICKS	70
HB-45	MINI HOT BOND	70
HB-40S	HOT STICKS	70
HB-80	HOT-BOND	70
HE-110	HOT SLICER	70
HOT-30R/60R	HOT KNIVES	71
HP-150/200/300	SHEET-METAL SOLDERING IRONS	38
HRC-100	STAINED-GLASS SOLDERING IRON	43
HRC-401	TEMP-CONTROLLED STAINED-GLASS SOLDERING IRON	43

## K

KS series	GENERAL ELECTRONICS SOLDERING IRONS	36
KX series	GENERAL ELECTRONICS SOLDERING IRONS	36
KYP-60/70	DUAL-POWER SOLDERING IRONS	37

## M

MI-6-6V/MI-6-12V	LOW-VOLTAGE SOLDERING IRONS	37
MSD-20	BATTERY-POWERED SOLDERING IRON	42
MSD-40	BATTERY-POWERED SOLDERING IRON	42
MSD-5	USB-POWERED SOLDERING IRON	42

## N

NC-100R	N <sub>2</sub> STATION	25
---------	------------------------	----

## P

PCB-1	PCB DIPPING HOLDER	50
POT-100C	SOLDER POT [stainless bath]	51
POT-103C	SOLDER POT [cast-iron bath]	51
POT-200C	SOLDER POT [stainless bath]	51
POT-203C	SOLDER POT [cast-iron bath]	51
POT-21C	SOLDER POT [stainless bath]	50
POT-23C	SOLDER POT [ceramic bath]	50
POT-28C	SOLDER POT [cast-iron bath]	50
POT-400C	SOLDER POT [cast-iron bath]	51
POT-50C	SOLDER POT [cast-iron bath]	50
PX-201	TEMP-CONTROLLED SOLDERING IRON	33
PX-280	TEMP-CONTROLLED SOLDERING IRON	32
PX-335/338/342	FIXED-TEMPERATURE SOLDERING IRONS	33
PX-401	TEMP-CONTROLLED SOLDERING IRON	33
PX-501AS/501	MINI SOLDERING STATIONS	27
PX-601AS/601	MINI SOLDERING STATIONS	27

R		
R/RD/RB series	RED TIPS / BLACK TIPS .....	39
RX-701AS/711AS	SOLDERING STATIONS .....	26
RX-802AS	SOLDERING STATION .....	18
RX-802ASPH	NITROGEN SOLDERING STATION .....	24
RX-812AS	MICRO SOLDERING STATION .....	20
RX-822AS	DUAL-PORT SOLDERING STATION .....	22
RX-852AS	HIGH-POWER SOLDERING STATION .....	16
RX-892AS	ULTRA HIGH POWER SOLDERING STATION .....	14

S		
SA-10	SOLDER ASSIST .....	72
SC-5	USB-POWERED STYROFOAM CUTTER ...	71
SC-10	BATTERY-POWERED STYROFOAM CUTTER ...	71
SD series	SOLDERS BY USE .....	69
SE series	LEAD-BASED SOLDERS .....	69
SF series	LEAD-FREE SOLDERS .....	69
SG series	STARTER KIT (ELECTRONICS) .....	64
SS-80AS	AIR PURIFYING FUME VACUUM .....	68
ST series	SOLDERING IRON STANDS .....	65
ST-200	PCB HOLDER .....	66
ST-30/70	TIP CLEANERS .....	64
ST-40	TIP CLEANER .....	64
ST-51/52/53	SOLDER REEL HOLDERS .....	65
ST-85	MULTI CLAMP .....	66
ST-80	MINI VISE .....	66
ST-93	MAGNIFIER .....	66
ST-94	MINI WORKSTAND .....	66
ST-95	TWEEZERS STAND .....	66
SVS-580AS	SERVICE STATION .....	58
SVS-800AS	SERVICE STATION .....	58

T		
T series	COPPER TIPS .....	39
TL-10/20	MAINTENANCE TOOL SETS .....	73
TM-100	TIP THERMOMETER .....	48
TM-100SU	SENSOR UNIT .....	48
TM-200	SOLDERING TESTER .....	49
TP-100AS/100	PORTABLE DESOLDERING GUNS .....	60
TP-280AS	AUTOMATIC DESOLDERING STATION .....	60
TQ-77/95	QUICK-HEAT SOLDERING IRONS .....	35
TS series	PRECISION TWEEZERS .....	73

W		
WA-400	SURFACE RESISTIVITY METER .....	67
WD-130/13	ANTI-STATIC MATS .....	67
WG-1/2 series	LOW-DUST GLOVES .....	67
WS-11/12	WRIST STRAPS .....	67

X		
XFC-110	HOT-AIR REWORK STATION .....	54
XFC-300/301	HOT-AIR REWORK STATIONS .....	54
XK-1/2	HANDPIECE HOLDERS .....	56
XPR-1000	PREHEATER .....	56
XPR-610	PREHEATER .....	56
XPR-620	PREHEATER .....	56
XRB series	REBALL KIT .....	53
XST-80	SOLDERING TWEEZERS .....	57
XST-80G	SOLDERING TWEEZERS UNIT .....	57
XU-1/1S	BOARD HOLDERS .....	56

Y		
YN-1/3/4	HOBBY HAND TOOLS .....	74
YN-10-22	PRECISION NIPPERS .....	75
YN-104	1.5 mm PLATFORM NIPPERS .....	76
YN-10AS/13AS	PRECISION NIPPERS .....	75
YN-210AS/215AS/220AS	MANUAL DEPANELING TOOLS .....	74
YN-300	AIR-POWERED DEPANELING TOOL .....	74
YP-1/3/4	HOBBY HAND TOOLS .....	74
YP-10	PRECISION NIPPERS .....	76
YP-201AS	CRIMPING PLIERS .....	76
YS-1	WIRE STRIPPER .....	77
YS-100/101	CABLE STRIPPER .....	77
YS-2/3	PRECISION WIRE STRIPPER .....	77



® SOLDERING IRONS, EQUIPMENT & ACCESSORIES

## **TAIYO ELECTRIC IND.CO.,LTD.**

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