

# 21-10125

SMD REWORK STATION

User's Manual



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Thank you for choosing Tenma products. Please read this manual carefully before opperation

# SPECIFICATION

Power Voltage	110V~ 60Hz
Power Consumption	560W (Max)
Pump	Diaphragm Pump
Capacity	23L/min (Max)
Hot Air Temperature	100°C ~ 480°C
	(212°F ~ 896°F)
Outer Dimensions	187 x 135 x 245mm
(W x H x D)	(7.4" x 5.3"x 9.6")
Weight	4.5Kg (9.9 lbs)

## USAGE

Suitable for desoldering and reworking most types of SMD.

TEMF	PERATURE	CHARI

Position	1	2	3	4	5	6	7	8
Temp (°C)	100	130	190	250	310	380	440	480
Temp (°F)	212	266	374	482	590	716	824	896

The flickering indicator indicates that the element is heating up. When the indicator is off, the element has reached the setting temperature.

All temperatures are approximate.

# **BEFORE OPERATION**

· Select the nozzle that meets your job needs

Attach the nozzle only when both the handpiece and nozzle are cool

 Loosen the screw on the nozzle, attach it to the handpiece, and retighten the screw

Do not force the nozzle and do not overtighten the screw.

# OPERATING INSTRUCTIONS

### **Desoldering Instructions**

• Plug the power cord into the power supply

After connection, the air pump will power on, but the heating element will remain cool until powered on

### • Turn the power switch on

This will turn on the heating element and unit will begin to get hot

### • Adjust air flow and temperature

After adjusting the air flow and temperature controls, wait until the temperature stabilizes (usually 15-45 seconds)

### • Melt the solder

Hold the iron so that the nozzle is positioned over the soldered area of the IC (do not touch the IC or the solder joints with the nozzle)

### •Remove the IC

Once the solder has melted, carefully remove the IC using a chip lifter or tweezers

### • Turn the power switch off

After the power switch is off, the pump will continue air to the nozzle to help cool the heating elements. This increases the life and safety of the nozzle. Do not unplug the power during this time; the unit will shut down after the cooling process (usually 5~15 minutes). If the unit will not be used for an extended period of time, disconnect the power after the unit shuts down.

### Remove any remaining solder

After removing the IC, use a soldering iron and braid, or a desoldering tool to remove any remaining solder

### Soldering Instructions

The simplest way to solder SMD's with a hot -air rework tool is with the use of solder paste.

### Apply the solder paste

Apple the proper amount of solder paste at the location where the SMD will be installed to the PCB tracks. Place the SMD on the PCB on top of the solder paste.

### • Turn the power switch on

This will turn on the heating element and unit will being to get hot

### • Adjust air flow and temperature

After adjusting the air flow and temperature controls, wait until the temperature stabilizes (usually 15-45 seconds)

### Soldering

Carefully and evenly head the solder paste around the SMD component. The solder and flux in the paste will separate, and the solder joints will form. Be very careful not to overheat the component. Inspect the soldering joints to make sure there are no solder bridges, balls or whiskers.

### • Turn the power switch off

After the power switch is off, the unit will continue to pump air through the nozzle to help cool the heating elements to increase the life and safety of the unit

• Cleaning

After soldering is finished and board has cooled, use the appropriate flux wash to clean the PCB.

### **Precautions**

Unit reaches very high temperatures. Do not use the unit near flammable gases or other materials. Both the nozzle and the heated air are extremely hot and can cause injury or damage.

This unit was designed to be used by anyone who is experienced with this type of equipment. If you not familiar with how to correctly and safely use the unit, seek professional instruction before attempting use.

This unit is not a toy; keep away from children.

Before you change the nozzle, make sure the nozzle and the handpiece are completely cooled.

The iron may emit white smoke on first use. This small residue from the manufacturing process and will soon go away.

Never drop or abuse unit or handpiece.

Be sure to allow the unit to cool before you store or leave the unit.

Do not disassemble the pump.

Disconnect the power cord when the unit will not be used for a period of time.

Keep unit away from water and excessive moisture.