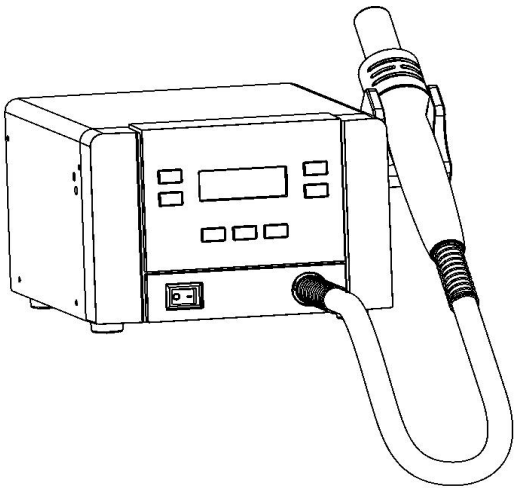
862DA+/862DW+

SMD REWORK STATION

Instruction Manual



Thank you for purchasing our products. Please keep the Instruction manual properly for future reference.

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1. Safety Instruction

CAUTION

- During the installation and use of the product, you need to observe the electrical safety regulation of location.
- Please power off the product during disassembly.
- If the product is not working properly, please contact the supplier or manufacture, do not disassemble or modify without notice. We will not be liable for any problems caused by unauthorized maintenance or modification of the product.

WARNING

- Products should be used away from magnetic field.
- Do not place the product where the surface is vibrated or subject to shocks.
- Do not install the product where it maybe wet.
- Do not use the product near flammable materials.
- The product should be keep ventilation during operation. Turn off the product when resting or after completion..
- Do not use the product when it is damaged, inspection and maintenance regularly.
- The handle is placed on the holder, the system will sleep automatically when the temperature is less than 100 ℃.
- Please unplug the power cable when the product is not used for a long time.

2. Product Overview

This product is suitable for desoldering and soldering of various components, such as SMD, SOP, SOG, etc. It can be used in many occasions, such as heat shrinkage, drying, paint removal, adhesive removal, thawing, preheating, disinfection, glue welding, etc. Adjustable air volume, suitable for small air volume and large air volume heating occasions.

3. Product Features

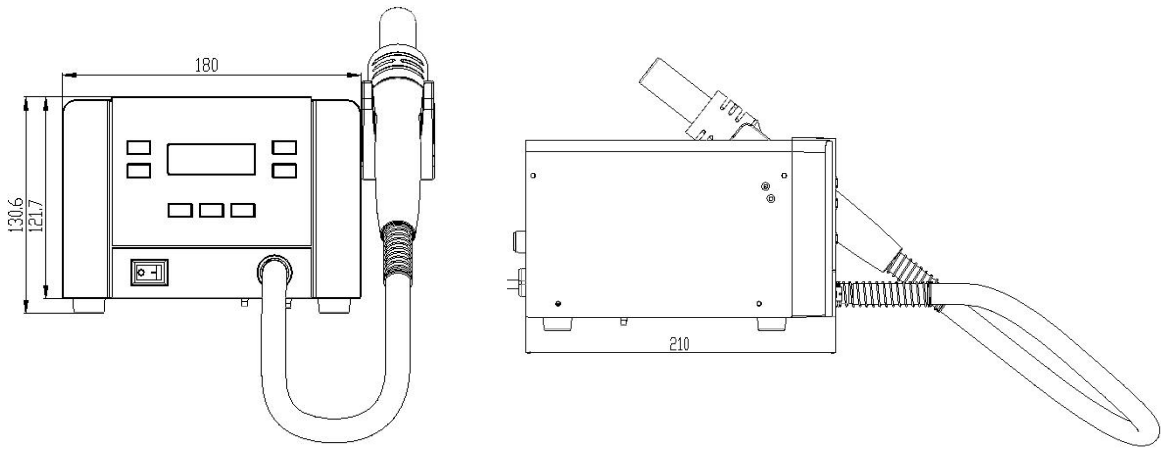
- CH1, CH2, CH3 three working channel selectable, and can set the air volume and temperature of each channel.
- Password protection and key locking.
- Magnetic switch control, convenient and real-time operation.
- Auto sleeping, parameters can be set while sleeping.
- Closed loop sensor, the microcomputer triggers the temperature control by zero crossing, large power, the temperature rises quickly, and the temperature is regulated, convenient, precise and stable.
- Brushless vortex fan, adjustable and large range of air flow.
- Automatic large-air cooling to extend the heater life and protect the hot air handle.

4. Product Specifications

Product model	862DA+	862DW+
Display	LCD	
Power	1000W	
Working voltage	AC 110V/220V/230V	
Steel tube	Direct wind	Cyclone
Temperature range	100℃～500℃/ 212℉ ～932 ℉	
Range of air volume	1～120 Class	
Airflow	50L/min（Max）	
Dimensions(L×W×H)	180*210*130.6mm	
Weight	About 2.6Kg	

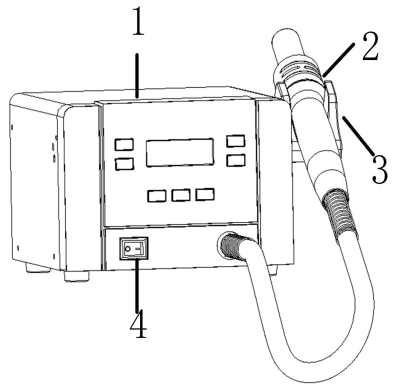
5. Display and Function Descriptions

5.1Dimensions



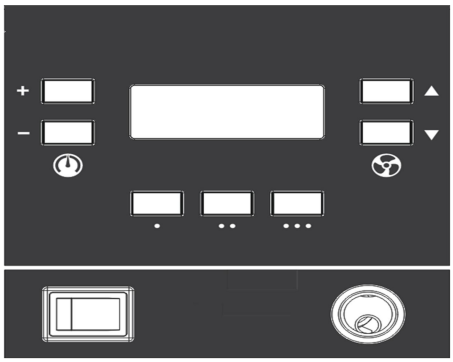
Unit: mm

5.2 Part Descriptions



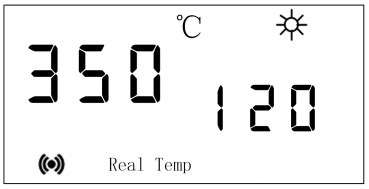
Serial Number	Part Names
1	Main unit
2	Hot air handle
3	Handle holder
4	Power switch

5.3 Button Descriptions



Button	Functions
• •• •••	1. Press •to ••• to switch to channels 1 to 3. 2. Press • and ••at the same time to set the prompt tone. 3. Press • and ••• at the same time to enter the temperature calibration mode. 4. Press ••and C•••at the same time to switch between Fahrenheit and Celsius.4.
+/-	Temperature control
▲/▼	Air volume regulation

5.4 Main Menu



Symbol	Function
☼	Heating state
(•)	Display: button tone and alarm prompt tone are enabled No display: button tone and alarm tone are disabled
Real Temp	Real-time temperature

6. Installation and Connection

6.1 Hot Air Section

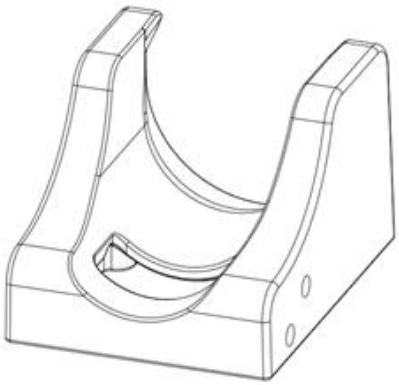
The handle holder must be installed when the machine is used for the first time, as shown in the picture on the right.

1) Remove the two screws securing the handle holder on the right side of the machine as shown.

2) Align the mounting hole of the handle holder with the two screw holes on the machine and tighten the two screws removed.

3) Install the handle holder, place the air handle, and check whether it is suitable.

Note: the handle holder can be installed on the left or right side of the machine according to actual needs.



6.2 Connection

Connect the external power supply, turn on the station, and it starts to work.

7. Temperature and Air Volume and Channel Setup

7.1 Temperature Setup

Press + or - to increase or decrease the temperature by 1 ° C, and hold down + or - to rapidly increase or decrease the temperature.

7.2 Air Volume

Short press "▲" or "▼" key, air volume goes up or down 1, long press "▲" or "▼" key, the air volume goes up or down quickly.

7.3 Channel

Press •, ••, or •••to select channels 1 to 3. Long press CH1 to CH3ave temperature and air volume parameters.

8. Operation

If the initial password is 000, the system is unlocked, and you can set parameters and select channels.

1) Place the hot air rework station on the table, select an appropriate air nozzle, and try to use a large diameter air nozzle (refer to "14.1 Installation and Removal of air nozzle"), then place the handle on the holder.

2) Connect the power cord and turn on the station.

3) Remove the handle from the holder and the station enters the normal working state. When the temperature is stable, the temperature window will display "Real Temp".

4) If the password is not locked, you can modify the temperature and air volume parameters. See 8. Temperature, air volume and channel setting

5) If the password is locked, "No" will be displayed in the window after startup. Temperature and air volume parameters cannot be modified under operating conditions.

6) After the work is finished, the handle must be placed on the holder and the station will automatically enter the cold air cooling stage. When the temperature drops to 100℃, it enters sleep mode.

9. Password Setup

In the initial state (the password is 000) and the password setting steps as follows.

1. Turn off the station, and then press the key "••" and turn on it. Not loosely the "••" key until the window displays "C". After that, the window displays "password" and "SET", which means the station comes into the password setting state.

2. Hundreds digit blink, enter the first password input interface. Press "+" or "-" to select the password value, press "▲" and "▼" to select the digits, enter the digits in sequence, and press "••" to confirm.

Note:

1) Enter the password twice

2) If the next password is not the same, the setting of password is not successful and the window displays “no”. After that, the station comes into work state and the password is still the former one.

3) If the next password is the same, the setting of password is successful and the unit displays “SAV_ _ _” and has sound (run sound function). After that, the system comes into work state.

3. After the password is changed, you must enter the correct password to enter the password setting. The setting procedure is as follows:

1) Enter the correct password.

2) If the password is not correct: the display shows “no” and then comes into the work state.

3) If the password is correct, SET will be displayed for about 20 seconds.

- When "SET" is displayed in the window, press "• •" to enter the new password setting (refer to the initial password setting).
- If "SET" is displayed in the window, press "•" or "• • •" to exit the password setting and directly enter the working state (the key is locked and cannot be changed).
- When the window displays "SET", do not do any operation, the station directly into the working state (the key is locked, can not be modified).

4. After setting new password and turn on the station, the display will show “no” and then comes into the working mode or sleeping mode.

Note:

In the initial state, it can change the password directly and without input the correct password “000” first. After setting a new password in the initial state, it must turn off the station and then turn on it, and then the locking function of the parameter setting comes to run. Or else, it can change the parameter after changing the password.

10. Sound Setup

1) Press the "•" and "••" for three seconds at the same time in the working mode or in the sleeping mode. It can switch on or off the sound.

2) When the LCD displays " ", the station has key sound and alarm sound. When not displaying " ", the station hasn't key sound and alarm sound.

11. Sleeping

11.1 How to enter the sleeping mode

1) Put the handle on the handle holder, the station will enter the sleeping mode automatically.

2) During the sleeping mode, the window will display "Off". and then when the temperature cooling down to 100℃, the unit comes into the sleeping mode. In the sleeping mode, the LCD will display "Sleep".

11.2 Wake up sleeping

When the handle is removed from the holder, the station immediately enters the working mode.

12. Temperature Calibration

It is better to calibrate the temperature after changing the heater-The method of calibrating the temperature is as：

1) In the working mode, set the calibration temperature 300℃ and 500℃ calibrate.

When the temperature is stable and the window displays "Real Temp", test the outlet temperature of the handle with thermometer and write down it.

2) **Enter the calibration mode:** When the temperature is stable, press the keys "•" and "•••" at the same time for 7seconds, and then the LCD will display "cal" about two seconds and the station will enter the temperature calibrating mode.

Input the testing temperature after the hundreds digit twinkling.

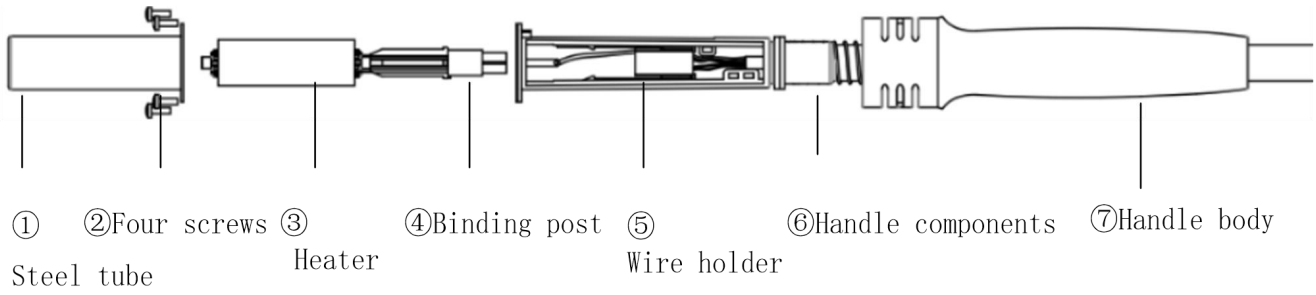
3) Press "TEMP ▲"or "TEMP ▼" key to set the data and press "AIR ▲"or "AIR▼" key to move the cursor. After inputting the testing result, click the "••" key.

4) If calibration is successful, the LCD respectively displays "C-L/C-H"**,** if not successful, the LCD displays "no".

5) If the temperature still has some differences, you can repeat calibration according to the above steps.

*Note: * Suggest using 191 or 192 thermometer to measure the temperature.*

13. Replacement of the Heater



13.1 Steps of removing the Heater

1) Unscrew②four screws;

2) Push the ⑥ Handle components out of the ⑦ Handle body;

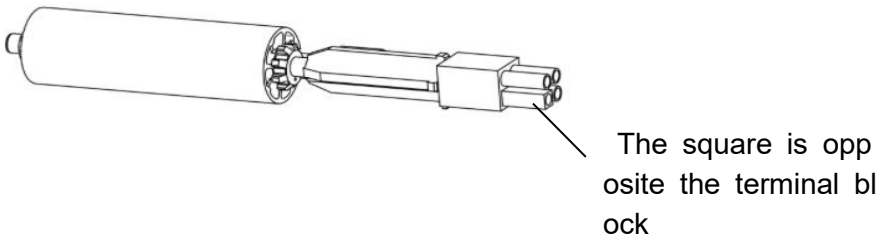
3) Pull out the Steel tube①;

4) Remove and replace the Heater③;

Note: All operation steps are carried out under the condition of power cut off and cool handle.

13.2 Steps of replacing the Heater

1) Install the heater on the ⑥ Handle components, and the square column on the heating body is facing the square hole on the wiring seat;

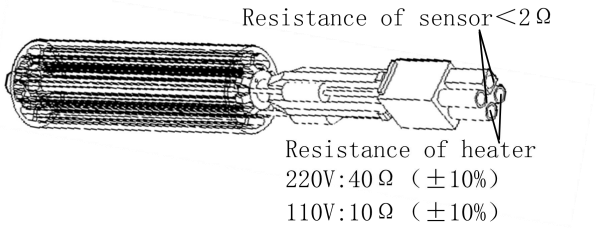


2) Cover ① Steel tube to ③ Heater;

3) Install the ⑥ Handle components into the ⑦ Handle body, pay attention to the alignment of the four holes;

4) Turn Four screws②;

5) After replacing the heater, you are advised to perform the following measurements

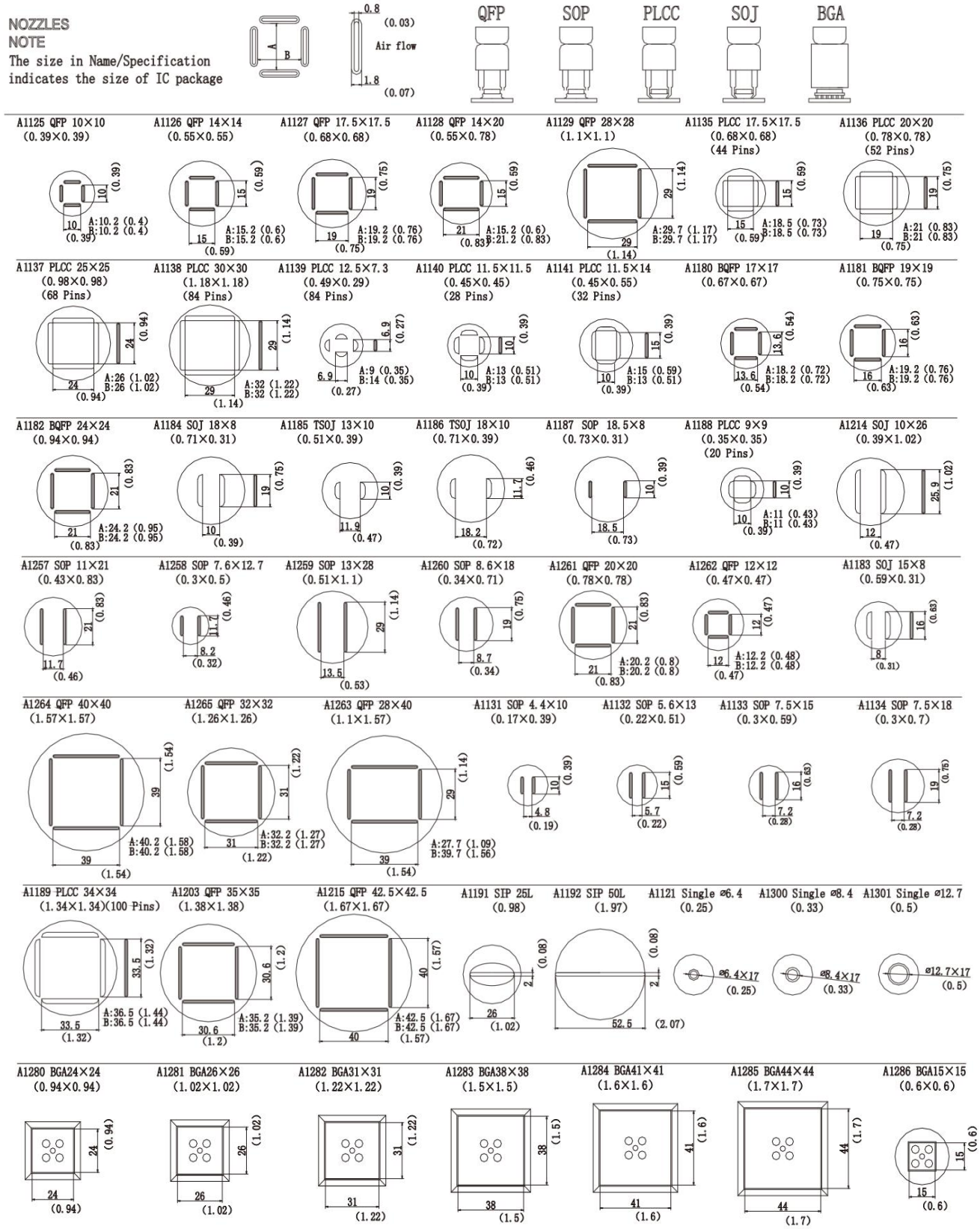


6) Calibrate the temperature, refer to Soldering temperature calibration.

14. Troubleshooting

NO.	Display Fault	Fault Descriptions
1	H-E	Indicates that there is a problem with the heater and the heater needs to be checked or replaced.
2	S-E	Indicates that there is a problem with the sensor and the sensor needs to be checked or replaced.
3	ERR	Indicates that the fan is faulty and needs to be checked or replaced.

15. Nozzles


NOZZLES
NOTE
The size in Name/Specification indicates the size of IC package
A
B
0.8 (0.03)
Air flow
1.8 (0.07)
QFP
SOP
PLCC
SOJ
BGA
A1125 QFP 10×10 (0.39×0.39)
A1126 QFP 14×14 (0.55×0.55)
A1127 QFP 17.5×17.5 (0.68×0.68)
A1128 QFP 14×20 (0.55×0.78)
A1129 QFP 28×28 (1.1×1.1)
A1135 PLCC 17.5×17.5 (0.68×0.68) (44 Pins)
A1136 PLCC 20×20 (0.78×0.78) (52 Pins)
A1137 PLCC 25×25 (0.98×0.98) (68 Pins)
A1138 PLCC 30×30 (1.18×1.18) (84 Pins)
A1139 PLCC 12.5×7.3 (0.49×0.29) (84 Pins)
A1140 PLCC 11.5×11.5 (0.45×0.45) (28 Pins)
A1141 PLCC 11.5×14 (0.45×0.55) (32 Pins)
A1180 BQFP 17×17 (0.67×0.67)
A1181 BQFP 19×19 (0.75×0.75)
A1182 BQFP 24×24 (0.94×0.94)
A1184 SOJ 18×8 (0.71×0.31)
A1185 TSOJ 13×10 (0.51×0.39)
A1186 TSOJ 18×10 (0.71×0.39)
A1187 SOP 18.5×8 (0.73×0.31)
A1188 PLCC 9×9 (0.35×0.35) (20 Pins)
A1214 SOJ 10×26 (0.39×1.02)
A1257 SOP 11×21 (0.43×0.83)
A1258 SOP 7.6×12.7 (0.3×0.5)
A1259 SOP 13×28 (0.51×1.1)
A1260 SOP 8.6×18 (0.34×0.71)
A1261 QFP 20×20 (0.78×0.78)
A1262 QFP 12×12 (0.47×0.47)
A1183 SOJ 15×8 (0.59×0.31)
A1264 QFP 40×40 (1.57×1.57)
A1265 QFP 32×32 (1.26×1.26)
A1263 QFP 28×40 (1.1×1.57)
A1131 SOP 4.4×10 (0.17×0.39)
A1132 SOP 5.6×13 (0.22×0.51)
A1133 SOP 7.5×15 (0.3×0.59)
A1134 SOP 7.5×18 (0.3×0.7)
A1189 PLCC 34×34 (1.34×1.34)(100 Pins)
A1203 QFP 35×35 (1.38×1.38)
A1215 QFP 42.5×42.5 (1.67×1.67)
A1191 SIP 25L (0.98)
A1192 SIP 50L (1.97)
A1121 Single ⌀6.4 (0.25)
A1300 Single ⌀8.4 (0.33)
A1301 Single ⌀12.7 (0.5)
A1280 BGA24×24 (0.94×0.94)
A1281 BGA26×26 (1.02×1.02)
A1282 BGA31×31 (1.22×1.22)
A1283 BGA38×38 (1.5×1.5)
A1284 BGA41×41 (1.6×1.6)
A1285 BGA44×44 (1.7×1.7)
A1286 BGA15×15 (0.6×0.6)

16. Consumable List

Product model	862DA+	862DW+
Nozzle	A1124	A1124
	A1130	A1130
	A1300	A1300
Heater	TR3-H-ZZ-01-220V	TR3-H-ZZ-01 -220V
Steel pipe	TR3-P-09H	TR3-P-08H
Mica paper	/	/
ceramic packing	/	/
Handle	863DA+	TR3-P
Holder	TR3	TR3
The handle sheath	/	/
Pump components	/	/
Fan module	863DW+	863DW+
Sucking pad	862DA+	862DW+