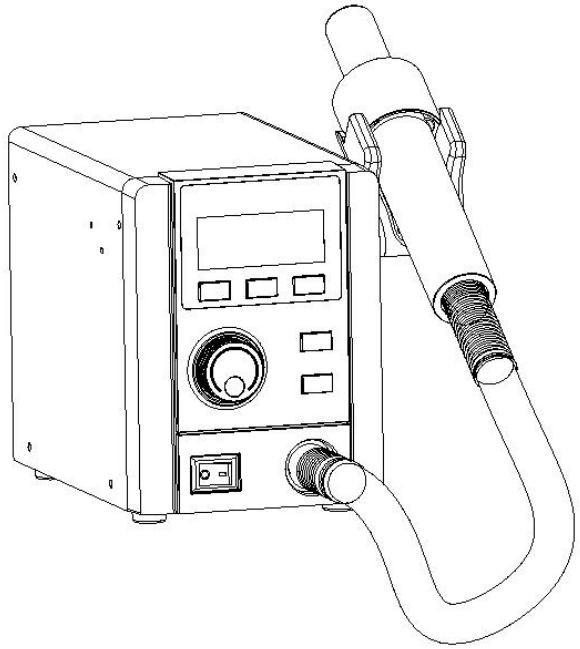
QUICK 959D+

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 Introduction

This product is suitable for de-soldering and soldering, such as SMD, SOP, SOG. Heat shrinkage, drying, paint removal, adhesive removal, thawing, preheating & disinfection are available. Adjustable air volume is suitable for small or large air volume heater.

3. Product Features

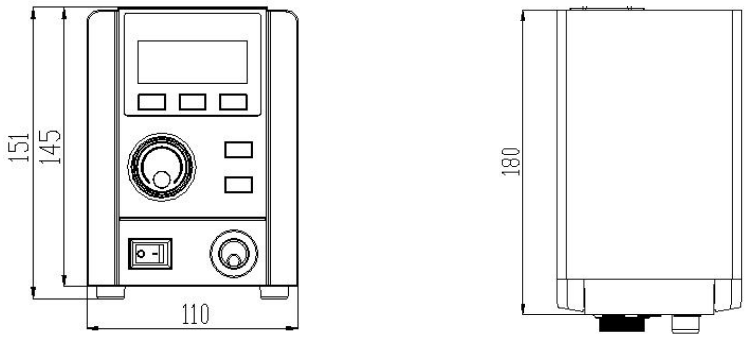
- Closed loop sensor, microcomputer control temperature, with high power and rapid temperature heat.
- Air volume adjustable, digital display and easy to adjust temperature.
- There is a magnetic sensor in handle. The handle is placed on the holder, the system will sleep automatically. And when picked up from holder, it will enter work mode quickly.
- Cooling fan extends heater lifetime.
- Compact design.

4. Product Specifications

Product type	959D+	
Display	LCD	
Power	500W(Max）	580W（Max）
Input voltage	110V AC	220V AC
Temperature range	100～500℃	
Air volume	1～100 Level (Adjustable）	
Airflow	40L/min（Max）	
Dimensions(L*W*H）	110*180*151mm	
Weight	About 1.6 Kg	

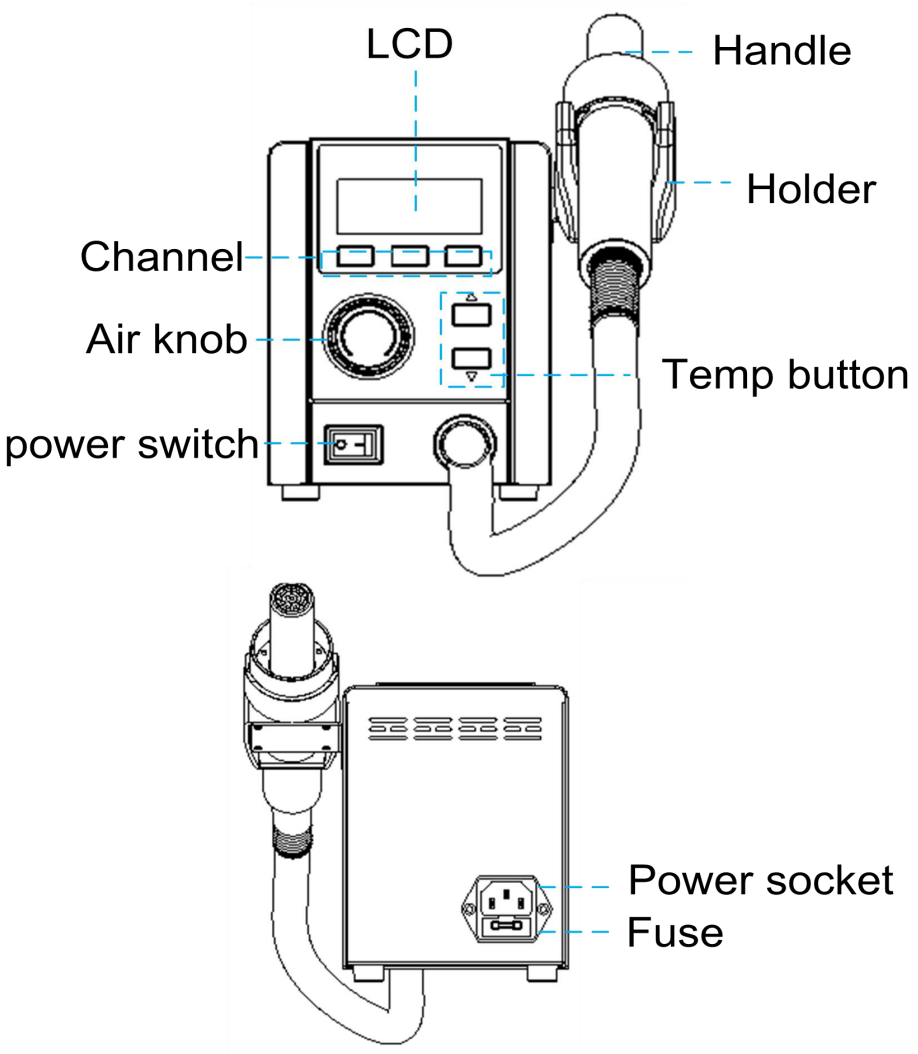
5. Function Descriptions

5.1 Dimensions



Unit: mm

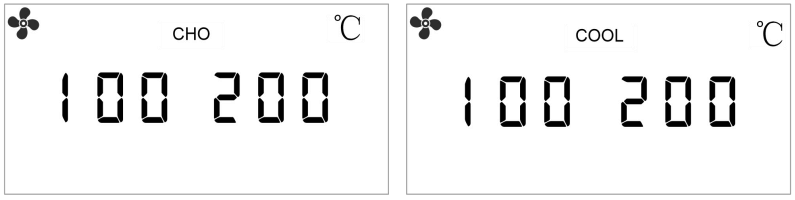
5.2 Part Descriptions



5.3 Button Descriptions

Button	Function Descriptions
CH1~CH3	1.Click coordinate button to select Channel numbers. 2.Press and hold the Channel button to store the airflow and temperature of the current Channel.
▲/▼	1.Temperature regulation 2.Press and hold ▲&▼ buttons simultaneously to enter the temperature calibration menu.

5.4 Main Menu



Icon	Descriptions
	Air volume
CH0	Temporary channel
COOL	Cooling status

6. Installation and Connection

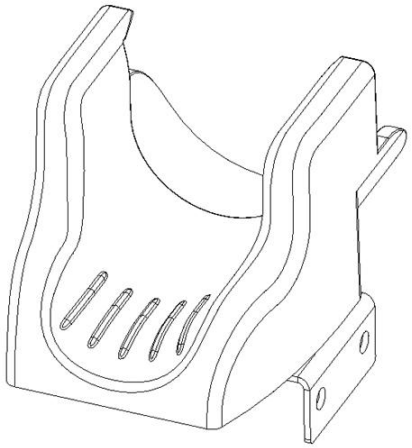
6.1 Installation

The handle holder must be installed when the product is used for the first time, as shown below.

1) Remove two screws on the left side of the holder.

2) Place the mounting hole of the handle holder on the two screw holes on the product and install two screws and tighten them.

3) Install the handle holder and put the handle on the holder, then check whether they are well fit.



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

6.2 Connection

Connect the AC power supply, and power on it to start work.

7. Operation

Air volume

Adjust the knob clockwise to increase air volume, and otherwise to decrease; do reverse operations and the air volume will be decreased. Adjust the knob for a large scope and the air volume can be quickly increased or decreased.

Temperature

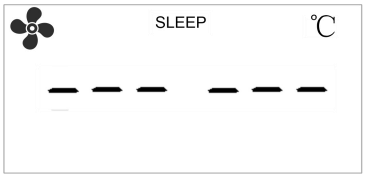
Click the "▲" or "▼" button to increase or decrease the temperature by 1℃, and hold down the "▲" or "▼" button to rapidly increase or decrease the temperature.

Channel

Click CH1, CH2, CH3 to select Channel 1, Channel 2, Channel 3 respectively. Long press the Channel button to store the parameters of the current Channel.

Sleeping

Place the handle on the holder to cool. The station will enter the sleeping mode when the temperature is less than 100℃.



8. Password Setup

The initial password is “000”. The temperature can be set under this state. If you want to limit temperature adjustment, the password must be changed.

Enter password setting mode

1) Turn off the station press the “▲” and “▼” keys at the same time, and then turn on the station

2) Press the “▲” and “▼” keys, and you will hear a sound “Di” before C is displayed, then a symbol “--” appears.

3) Enter the right password to enter the parameter setting menu.

Enter the initial password

1) The window displays "--" and the left hundred-digit flashes. At this time, the hundred-digit number can be adjusted (you can enter the initial password）.

2) Input the initial password: Adjust the middle knob to change the hundred-digit number; press "▲" key to move the digits and then ten-digit number began to flash, indicating that it can be set in the same way as before. After the single-digit number is set, hold down the "▲" and "▼" keys at the same time to confirm it.

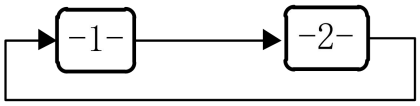
3) **If the first password is wrong:** then directly enter the second password, and the input method is same as the first time. (There are two chances of password input. If the first password input is wrong, you can directly enter the second input.）

4) **If the password entered twice is wrong**: the window will show "ERR", and then directly enter the main interface.

5) **If the first or the second password is correct**: then directly enter the parameter settings, and the window shows "-1-".

9. Parameter Setup

1) The password is entered correctly to access the parameter menu, and the sequence of changes is shown in the following figure.



2) Click "▲" or "▼" button, select parameter menu-1, and return to the main interface directly; after selecting parameter menu-2, press "▲" and "▼" buttons at the same time to enter the new password setting.

10. New Password Setup

1) After entering the new password setting, the window displays “---” and the hundreds’ digit blinks.

2) Then adjust the middle knob to change the hundreds’ digit, press the “▲” button to move the digit, and then the tens’ digit starts flashing to be set. When the digit is set, press and hold the “▲” and “▼” button at the same time to confirm. The second setting method of password is the same as the first setting method of password.

Note: If the numbers of the password entered twice before and after are not the same, the window shows “ERR”, indicating that the password setting is not successful. Return to the parameter setting, and the password remains unchanged.

If the same number is entered twice, the window will show “OK”, which means the password is set successfully and return to the parameter setting. Turn off and restart the product, and the password will take effect.

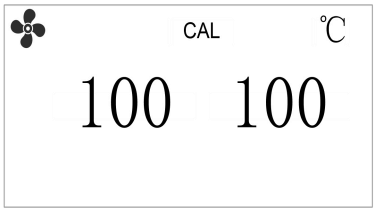
11. Temperature Calibration

1) Set the product temperature to 300℃. Use QUICK196 to test the temperature of the air outlet and write down the readings.

2) Press and hold the “▲”and “▼” button about 2s, the display will show “CAL” and enter the temperature calibration mode.

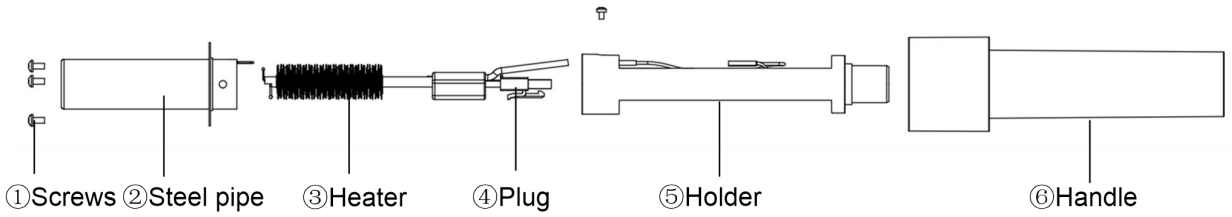
3) Press “▲” or “▼” to adjust the temperature to the measured value.

4) Press and hold the “▲” and “▼” button about 2s, and return to the main interface with a beep. That is, the temperature calibration is successful.



Note: If there is no QUICK196, it is recommended that the temperature measuring head of the external sensor of the thermometer be placed 3～5mm away from the nozzle for temperature test.

12. Replacement of the Heater



12.1 Steps of removing the Heater

1) Remove the spring.

2) Unscrew the three ①Screws .

3) Pull out ②Steel pipe & ⑤Holder from ⑥Handle.

4) Remove the orange and yellow cables connected in the ③Heater.

5) Remove a screw of ②Steel pipe, plug the grounding cable and remove the ②Steel pipe.Check whether the quartz tube is damaged or not.

6) Remove the ③Heater from ④Plug.

7) Remove the heater.

⚠ NOTE: :The steps need to be operated in the OFF status, and the handle should be cooled in the room temperature.

12.2 Steps of replacing the Heater

1) Insert the ③Heater, and connect it into green plug.

2) Connect the yellow cable into the heater of the yellow cable , and the orange into the red.

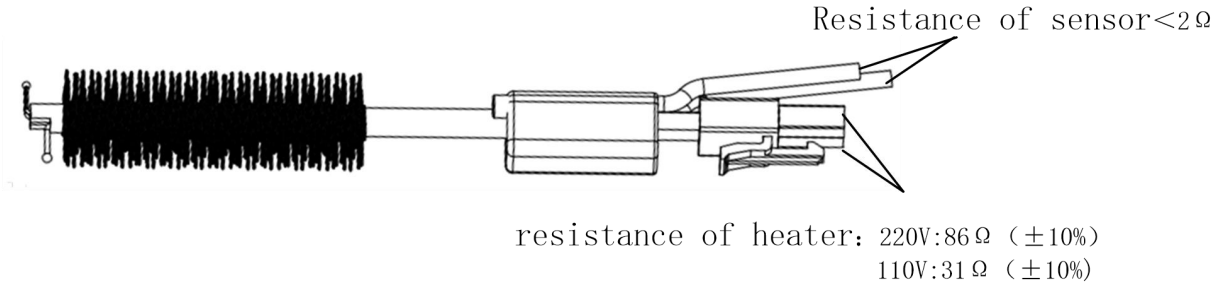
3) Connect the ④Plug into ⑤Holder, then cover the ③Heater with the ②Steel pipe and lock it.

4) Connect grounding cable and tighten it.

5) Install the replaced ③Heater into the ⑥ Handle, lock the three ①Screws.

6) Turn the spring counterclockwise until the handle is installed.

7) After replacing the heater, test the following parameters:

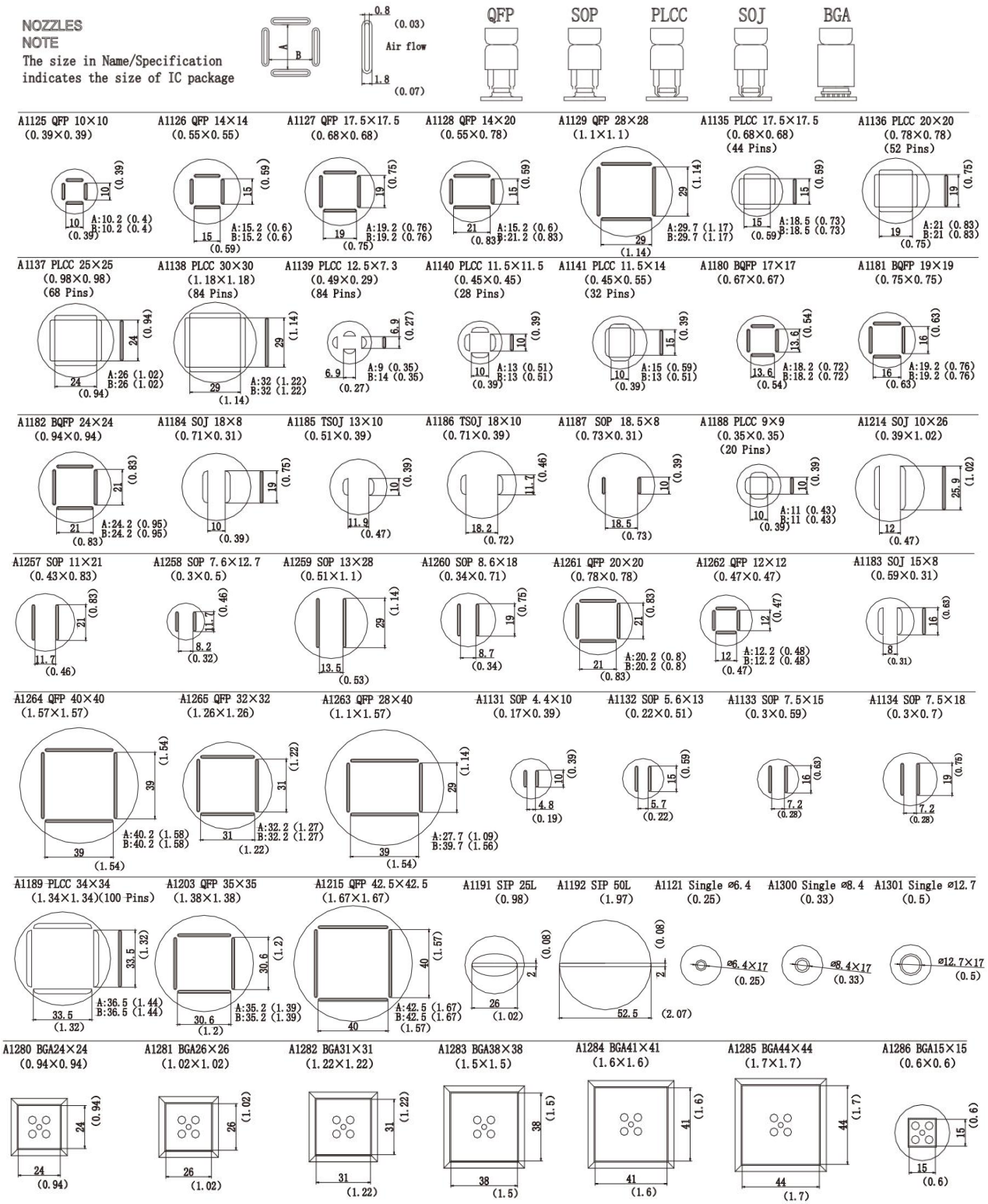


8) Calibrate the temperature, refer to Soldering temperature calibration.

13. Troubleshooting

No.	Error Message	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.

14. 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 ø6.4 (0.25)
A1300 Single ø8.4 (0.33)
A1301 Single ø12.7 (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)

15. Consumable List

Nozzle	A1124
	A1130
	A1300
Heater	A1147-（220V）
Steel pipe	857
Mica paper	857/74x18mm
ceramic packing	/
Handle	857
Holder	957D+
The handle sheath	/
Fuse	3A/5x20mm/40003228
Pump components	/
Fan module	959D+
Sucking pad	/