



## Dinghua Technology BGA rework station DH-5880

### Specification



#### I . Features

1. Touch screen operation, pre-set temperature profiles, it can be used proficiently without professional technical training, let chips be repaired very easy ;
2. Air-flow adjusting function: it can adjust different air-flow according to the size of the chip, high efficient rework, and when soldering small chips will not be blown off ;
3. Imported heating parts, durable and precise temperature control, no bad welding and empty welding ;
4. Extensive heating area, suitable for PCBs with various sizes repairing;
5. With universal fixtures, which can be used for any shapes of motherboard;
6. Equipped with 4 external temperature measurement interfaces, which can detect the temperatures of the PCB or chip surface at multiple points at any time, and the heating temperature is more accurate;
7. Equipped with vacuum suction pen, it is more convenient to disassemble and take the chip;



8. With an external USB interface, various repair data can be imported into a computer for analysis and storage.

## II . Parameters

Total Power	5200W
Top heater	1200W
Bottom heater	The second temperature zone is 1200W, the third temperature zone is 2700W (Extensive IR preheating area to adapt to all kinds of PCBa)
Power supply	AC100~220V $\pm$ 10% 50/60Hz
Dimensions	L500 $\times$ W600 $\times$ H700 mm
Positioning	Laser positing and V-groove, with universal fixtures
Temperature control	K Sensor Closed loop
Temp accuracy	$\pm$ 2 $^{\circ}$ C
PCB size	Max 500 $\times$ 400 mm Min 20 $\times$ 20mm
BGA chip	2X2-80X80mm
Minimum chip spacing	0.15mm
External Temperature Sensor	4pcs, which can be equipped more (optional)
Net weight	48kg

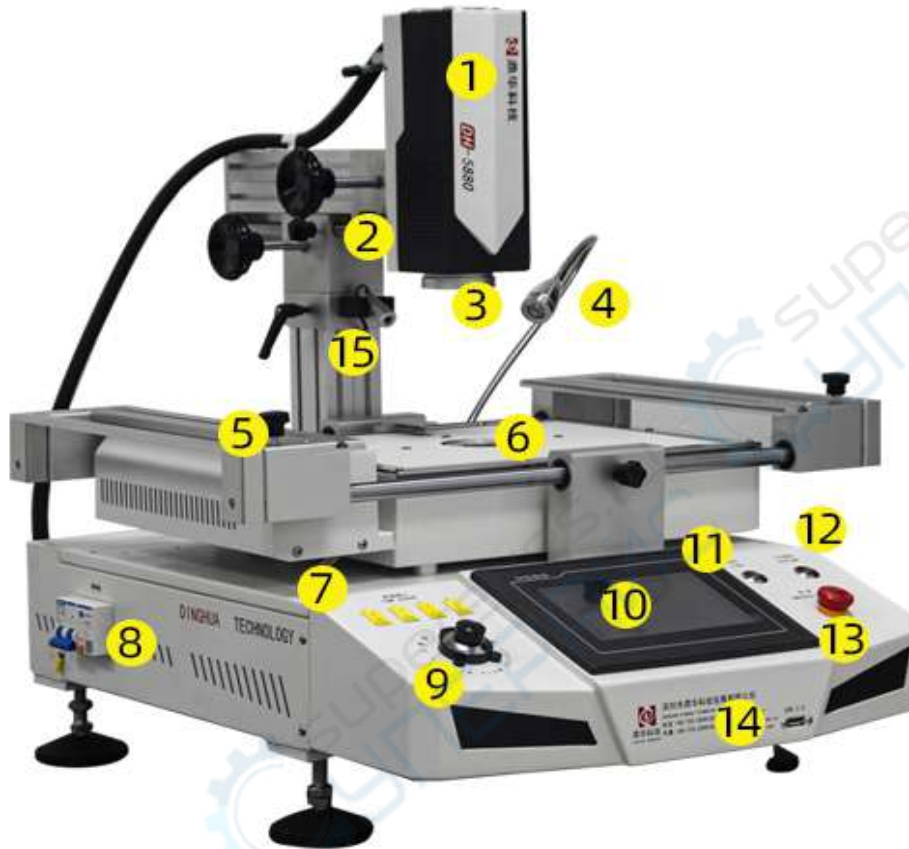
## III .Function:

1. Embedded industrial computer, high-definition touch screen man-machine interface, CPU central processing unit control, and has the function of instantaneous curve analysis. Real-time display setting and measured temperature curve, and can analyze and correct the curve;
2. High-precision K-type thermocouple closed-loop control and temperature automatic compensation system, combined with CPU central processing unit and temperature module to achieve precise temperature control, keeping the temperature deviation at  $\pm$ 2 degrees. At the same time, 4 external temperature measurement interfaces are installed to achieve Precise detection of temperature, and accurate analysis and proofreading of the measured temperature curve;



3. PCB board positioning adopts laser positioning and V-shaped groove, positioning is fast, convenient and accurate, and meets different PCB board layout methods and PCB board positioning of different sizes;
4. Equipped with a breeze adjustment function, suitable for any size chip; the preheating temperature zone is covered with a protective steel mesh to prevent components and foreign objects from falling into the machine and causing equipment damage.
4. The flexible and convenient movable universal fixture protects the PCB board, prevents damage to the edge of the PCB and PCB deformation, and can adapt to the rework of various BGA package sizes;
5. Equipped with a variety of alloy nozzles, which can be rotated and positioned at 360 degrees, easy to install and replace;
6. A total of three temperature zones up and down are heated independently, and the three temperature zones can be controlled by multiple groups and sections at the same time to ensure that different temperature zones can achieve the best welding effect simultaneously. Heating temperature, time, slope, cooling, and vacuum can all be set on the man-machine interface;
7. The upper and lower temperature zones can be set to 8 sections of temperature control, mass storage of temperature curves can be called at any time according to different BGAs, curve analysis, setting and correction can also be performed on the touch screen; Three heating zones adopt independent PID algorithms to control heating. During the process, the temperature rise is more uniform and the temperature control is more accurate;
8. Use a high-power cross-flow fan to quickly cool the PCB board to prevent deformation of the PCB board; at the same time, it has a built-in vacuum pump and an external vacuum suction pen, which is convenient and quick to pick up the BGA chip;
9. Equipped with voice-activated "early alarm" function. 5-10 seconds before the completion of disassembly and welding, the operator will be warned by voice to make relevant preparations. After the upper and lower hot air stops heating, the cooling system starts and automatically stops cooling when the temperature drops to normal temperature. Ensure that the machine will not age after the heat rises;
10. With a USB interface, it is convenient to download the current graph to the U disk and save it, and you can plug in the mouse and use the touch screen to set the time;
11. CE certified, equipped with emergency stop switch and automatic power-off protection device for sudden accidents.

#### IV. External structure:



#### V Function instruction

1. Upper head
2. Height of upper head adjusting
3. Upper nozzle
4. Working light
5. Fan of cross-flow
6. Lower nozzle
7. Temperature interface
8. Switch of power
9. Knob of hot air-flow
10. Touchscreen



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11. Switch of light
12. Switch of laser point
13. Key of emergency
14. USB port
15. Laser light source

