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BGA REWORK STATION DH- A2 WITH VISION

Structure

(B.)Functions

Name	Usage	How to use
Top heater	The upper automatic heating structure	
Angle fine tune	Fine tune the BGA angle	Rotate the micrometer
Laser	Positioning the BGA chip	
Top heater hot air nozzle	Control the hot air more evenly	
LED lamp	Lighting when working	
Bottom heater hot air nozzle	Control the hot air more evenly	
IR preheating zone	Preheating the PCB board	
IR preheater controller	Control the IR heating area according the	Turn on/off the switch

	PCB board	
Workbench X axis fine tune	Adjust X axis of workbench	Rotate micrometer
WorkbenchY axis fine tune	Adjust Y axis of workbench	Rotate micrometer
Bottom heater height controller	Control the distance between the bottom heater and PCB board	Rotate the knob
Emergency stop	Stop the machine immediately	Press the button
Laser	Turn on/off the laser	Press the button
Start	Heat automatically	Press the button
LED lamp switch	LED switch	Press the button
Optical positioning structure	Transmit the image to the displayer	Pull it out
Cross flow fan	Cooling the PCB board after complete the work	
Clip controller	Adjusting the clip	Hold by hand
Fastener	Fasten the supporter in X axis	Rotate the handle
USB connector	Transfer files	
Outer temp sensor connector	Connect the outer temper sensor to measure the actually temperature	
CCD light adjuster	Control the brightness of the LED light on the lens	Rotate the knob
Touch screen	Operating the machine	

(C.) Main parameters

Total Power	5200W
Top heater	1200W
Bottom heater	2 nd:1200W 3 rd:2700W (Plus large fever area to adapt to all kinds of P board)
power	AC220V±10% 50/60Hz
Dimensions	L600×W700×H850 mm
Positioning	V-groove, PCB support can be adjusted in X direction with external universal fixture
Temperature control	K thermocouple （K Sensor）Closed loop
Temp accuracy	±2 degree
PCB size	Max440×380 mm Min 22×22 mm
BGA chip	2X2-80X80mm
Minimum chip spacing	0.15mm
External Temperature Sensor	1 (optional)
Net weight	70kg

Specification

1. Embedded industrial PC, high definition touch screen, make the operation humanity, CPU control, and instant curve analysis function. Real-time display settings and actual temperature curve, which can also be used to analyze and correct the curve if necessary.
2. It uses high precise k-type thermocouple closed-loop control and automatic temperature compensation system, with CPU and temperature module to enable precise temperature deviation to add and subtract 2 degrees. Meanwhile, external temperature measurement connector enables temperature diction and accurate analysis of real time temperature curve.
3. V-groove PCB works for rapid, convenient and accurate positioning, which can meet all kinds of PCB board of positioning.
4. Flexible and convenient removable fixture on the PCB board can protect the PCB fringe devices from damaging and transmuting. It can also adapt to various BGA 's reworking.
5. Various sizes of BGA alloy nozzles, which can be adjusted 360 degree for easily installation and replacement.
6. Three temperature areas can independently heat and they are multiple temperature control, which can ensure best integration of different temperature areas. Heating temperature, time, slope, cooling and vacuum can all be set in the human-machine interface.
7. There are 8 stage temperature controls up and down. Massive storage of temperature curves which are accessible at any time according to different BGA. Curve analysis, setting and adjustment are also accessible via touch screen. Three heating areas adopt independent PID calculation to control heating process to enable more accurate temperature.
8. It uses high power cross-flow fan to enable fast cooling of PCB board and prevent PCB from deformation. There are also internal vacuum pump and external vacuum chuck, which can help to fetch the BGA chip;

9. Collocating with sound control "early warning" function. It can warn workers to make some relative preparation 5-10 seconds before the completion of uninstalling or welding. Cooling system will start after vertical wind stopped heating. When the temperature drops to normal temperature, the cooling process will stop automatically, so that the machine will not be aging after temperature heated up.
10. It use rocker controller for controlling the upper heater go up and down freely, and it also has the function for zooming the picture.