



## WDS650 User-Friendly Semi Automatic BGA Rework Station with Independent Temperature Zones

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: WDS
- Certification: CE
- Model Number: WDS-650
- Minimum Order Quantity: 1 UNIT
- Packaging Details: Wooden case
- Delivery Time: 8-15 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 150 UNITS PER MONTH



#### Product Specification

- Model: WDS-650
- Power Supply Ac: Ac 220v  $\pm$  10% 50/60hz
- Total Power Supply: 5200W
- Upper Hot Air Heater: Max 1200W
- Down Hot Air Heater: Max 1200W
- Highlight: Infrared Laptop BGA Machine,  
WDS 650 Laptop BGA Machine,  
Gold Plated Light Tube BGA Machine

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## Product Description

### WDS-650 Automatic Optical BGA Rework Station Infrared gold-plated light tube heating

Independent 3 heating zones temperature control system

1.The upper and lower hot air heating, IR preheating zone adopts imported infrared gold-plated light tube to heat up quickly,which can heat up at the same time from the top of the component to the bottom of the PCB, to make the PCB board heated averagely,ensure welding effect;bottom IR heating,temperature precision control within  $\pm 1^{\circ}\text{C}$ .8 segment temperature control independently.Infrared gold-plated light tube control heating independently.

2.Hot air district heating for BGA and PCB at the same time,and large area IR heater preheating up for the bottom of PCB to avoid completely PCB deformation during reworking,the upper or lower temperature zones could be used alone and combine freely the energy of up and lower heating element.

3.Adopted high precision K-type thermocouple close-loop control and PID parameter self-setting system;

4 temperature curves can be displayed with instant curve analysis function and multi-group user data can be saved;temperature can be tested precisely through external measurement interface,curves can be analysed,set and correct on the touch screen at any time.

Precision optical alignment system

Using high definition and adjustable CCD color optical alignment system,beam split,amplification,lessening,fine adjustment and auto focus with the function that automatic color aberration resolution and brightness adjustment,adjustable image contrast;equipped with 15 " high definition LCD monitor.

Multi-functional and humanized operation system

1.Adopting the HD touch human-machine interface;upper heating head and mounting head designed 2 in 1;providing many kinds of titanium alloy BGA tuyere can be rotated in 360 degree for easy installation and replacement.

2.X,Y and R angle adopted micrometer fine-tuning,accuracy locating,precision can reach  $\pm 0.01\text{mm}$ .

Superior safety protection function

With the alarm function, after the BGA welding the machine can alarm by itself.In the case of temperature abuse, the circuit can power off automatically with the double over-temperature protection.Temperature parameter having password protection to prevent any modification.

#### Technology parameter

1	Power supply	AC 110V/220V $\pm 10$ 50/60Hz
2	Total power	Max 6400W
3	Heater power	Upper temp.zone 1200W,second temp.zone 1200W,IR temp.zone 4000W
4	Locating way	V shape slot,PCB support jigs can adjust,laser light do fast centering and position
5	Temperature controlling	(high precision K-sensor)(Closed Loop),independent temp.controller,the precision can reach $\pm 1^{\circ}\text{C}$
6	Electrical material	Driving motor+ smart temp.controller+color touch screen
7	PCB size	Max 410 $\times$ 380mm Min 10 $\times$ 10 mm
8	Applicable chips	Max 70 $\times$ 70mm Min 1 $\times$ 1 mm
9	Applicable pcb thickness	0.3-5mm
10	Alignment system	Optical lens + HD industrial camera
11	Mounting accuracy	$\pm 0.01\text{mm}$
12	Temperature Interface	3 pcs
13	Tin spot monitoring	Optional external camera to monitor solder ball melting process during welding
14	Camera in and out	Auto out & in
15	Overall dimension	L600 $\times$ W640 $\times$ H850mm
16	Weight of machine	60KG
17	Other function	5 working modes. Auto/ manual mode switch freely



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