Wisdomshow Factory Directly Supply WDS580 Infrared BGA Rework Station BGA Rework Equipment

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: WDS
- Certification: CE
- Model Number: WDS-580
- Minimum Order Quantity: 1 UNIT
- Packaging Details: Wooden case
- Delivery Time: 8-15 working days
- Payment Terms: T/T,Western Union,
- Supply Ability: 150 UNITS PER MONTH



Product Specification

- Total Power: 4800W
- Upper Heating Power: 800W
- Lower Heating Power: 1200W
- Infrared Heating Power: 2700W (1200W Controlled)
- Temperature Precision: ±3°C
- Max PCB Size: 400×370mm

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Product Description

Product Overview

The Wisdomshow WDS580 is a factory-direct BGA rework station engineered for precise, reliable PCB chip rework on telephone and mobile boards. Combining a linear slider system, touch-panel PLC control, and three independent heating zones, it delivers stable, repeatable results for professional repair and production environments.

Key Features

1. Precision Linear Slider

All three axes (X, Y, and Z) support fine tuning and quick orientation, delivering excellent positioning accuracy with fast, maneuverable operation.

2. Touch Panel & PLC Control

A touch-panel interface with PLC control ensures stable, reliable operation. Multiple user temperature profiles can be stored, with password protection and modification functions available at power-on. Temperature profiles are displayed directly on the touch screen.

3. Three Independent Heating Zones

Hot air heats between the upper and lower zones, while IR heat is applied at the bottom, with temperature precision controlled to ±3 . The upper zone moves freely as needed, and the second zone is adjustable up and down. Top and bottom heaters support simultaneous multi-segment control, and the IR heating zone output power can be adjusted to suit operating requirements.

4. 360° Rotating Nozzle & Uniform IR Heating

The hot air nozzle rotates a full 360 degrees, while the bottom IR heater warms the PCB board evenly.

5. High-Accuracy Closed-Loop Control

A K-type thermocouple closed-loop system enables accurate temperature testing through the external measurement interface. The PCB is positioned by a closed V-shape slot, and flexible universal jigs prevent damage or deformation while accommodating all BGA package sizes.

6. Rapid Cooling & Chip Removal

A large-power fan cools the PCB quickly, and the built-in vacuum pump with external vacuum nozzle makes BGA chip removal easy.

7. Alarm & Early Warning

An alarm prompt signals when welding is complete, with an added early warning function for convenient operation.

8. CE Certified Safety

Equipped with an emergency stop switch and protective equipment that powers off automatically in the event of an abnormal accident. If temperature goes out of control, the circuit cuts power automatically, backed by double over-temperature protection.

Technical Specifications

Total Power	4800W
Upper Heating Power	800W
Lower Heating Power	1200W
Infrared Heating Power	2700W (1200W is controlled)
Power Supply	(Single Phase) AC 220V ±10, 50Hz
Location Way	V-shape card slot + Universal jigs
Temperature Controlling	K-type thermocouple closed-loop control, independent temperature control, precision up to ±3
Electrical Material	Touch screen + Temperature control module + PLC control
Max PCB Size	400 * 370mm
Min PCB Size	10 * 10mm
Sensor	1 unit
PCB Thickness	0.3–5mm
Suitable Chip Size	1 * 1mm – 60 * 60mm
Machine Size	650 * 590 * 600mm
Weight	Net 40kg

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