Thermocouple Ports 5 Pcs WDS-800A BGA rework station offering closed loop K type thermocouple temperature control enabling component reflow

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-800A
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200Sets / Month



Product Specification

- Power Supply: AC220V±10%, 50/60Hz
- Total Power: 8400W
- Placement Accuracy: ±0.02mm
- Max PCB Size: 610×480mm
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Chip Magnification: 2-50X
- Applicable Chip Size: 0.8×0.8mm-80×80mm
- Thermocouple Ports: 5 Pcs



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Product Description

Product Description:

The Semi Automatic BGA Rework Station is a highly advanced and reliable tool designed to meet the demanding needs of electronic repair professionals and enthusiasts alike. With its robust build and precise engineering, this rework station is ideal for motherboard repair, enabling the efficient and accurate reflow and replacement of surface-mounted components, especially Ball Grid Array (BGA) chips. Its versatility and precision make it an essential piece of equipment in any electronics workshop.

One of the standout features of this BGA rework station is its capacity to handle a maximum PCB size of 610*480mm. This generous working area allows technicians to work on large motherboards and complex circuit boards with ease, without the need to remove the PCB from its fixture. This capability significantly enhances workflow efficiency and reduces the risk of damage during handling.

Precision is paramount when dealing with delicate electronic components, and this rework station excels with a placement accuracy of ±0.02mm. Such high accuracy ensures that chips are positioned perfectly on the PCB, reducing the risk of misalignment and improving the reliability of the repair. This level of precision is particularly crucial when dealing with fine-pitch BGA packages, where even the slightest misplacement can cause significant functional issues.

To facilitate detailed inspection and precise manipulation, the station is equipped with a chip magnification system offering a range of 2 to 50 times magnification. This allows technicians to closely examine the components and solder joints during the rework process, ensuring that repairs are performed to the highest standards. This magnification capability enhances accuracy and confidence during delicate operations.

Temperature control is a critical aspect of any rework station, and this model incorporates a sophisticated closed-loop K-type thermocouple system. This system monitors the temperature continuously and adjusts the heating elements to maintain precise thermal conditions. The station features upper and lower independent heating zones, allowing for targeted and controlled heat application. The temperature accuracy is maintained within ±1°C, preventing thermal damage to sensitive components and ensuring optimal solder reflow.

The Semi Automatic BGA Rework Station employs three heating zones, which include upper, lower, and hot air heating elements. This three heating zone setup provides uniform and efficient heat distribution across the PCB and components, reducing thermal stress and improving the quality of the solder joints. The hot air heating function is particularly effective in softening solder paste and removing components without damaging the PCB or adjacent parts.

This rework station supports a wide range of chip sizes, from as small as 0.8*0.8mm to as large as 80*80mm, making it versatile enough to handle various BGA packages and other surface-mounted devices. This broad compatibility ensures that it can be used for a diverse array of repair tasks, from tiny mobile phone chips to larger motherboard components.

In summary, the Semi Automatic BGA Rework Station is an indispensable tool for anyone involved in motherboard repair and electronic component rework. Its large PCB size capacity, exceptional placement accuracy, powerful chip magnification, and precise temperature control with independent upper and lower heating make it a top-tier choice for professionals. The incorporation of three heating zones, including hot air heating, ensures even and efficient thermal management, ultimately leading to higher repair success rates and longer-lasting electronic devices.

Features:

Product Name: Semi Automatic BGA Rework Station

Max PCB Size: 610*480mm, suitable for various motherboard repair tasks

Total Power: 8400W for efficient hot air heating

Temperature Control: Closed-loop K-type Thermocouple with upper & lower independent heating and ±1°C accuracy

Chip Magnification: 2-50X for precise alignment during motherboard repair

Applicable Chip Size: 0.8*0.8mm to 80*80mm, accommodating a wide range of chip sizes

High precision hot air heating system ensures effective and safe component rework

Technical Parameters:

Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
Total Power	8400W
Max PCB Size	610*480mm
Applicable Chip Size	0.8*0.8mm-80*80mm
Placement Accuracy	±0.02mm
Thermocouple Ports	5 Pcs
Chip Magnification	2-50X
Power Supply	AC220V±10%, 50/60Hz

Applications:

The Wisdomshow WDS-800A Semi Automatic BGA Rework Station is an advanced tool designed specifically for precision motherboard repair and BGA component rework. Originating from Shenzhen, China, and certified with CE standards, this high-performance equipment is ideal for electronics repair professionals and manufacturing facilities that require reliable and accurate rework solutions. With a supply ability of 200 sets per month and a minimum order quantity of just one unit, the WDS-800A is readily available for quick procurement, packaged securely in a wooden case to ensure safe delivery within 3-5 days.

This BGA rework station supports a maximum PCB size of 610*480mm, making it suitable for handling a wide variety of circuit boards, from small gadgets to more complex motherboards. The device offers exceptional placement accuracy of ±0.02mm, ensuring precise alignment of BGA chips ranging from 0.8*0.8mm up to 80*80mm in size. This level of precision is critical during motherboard repair processes where every micrometer counts to maintain the functionality and integrity of electronic devices.

Equipped with five thermocouple ports, the Wisdomshow WDS-800A allows for accurate temperature monitoring and control during rework, minimizing the risk of thermal damage. The semi-automatic operation streamlines the reballing, soldering, and desoldering procedures, reducing manual error and improving efficiency in repairing motherboards and BGA components. Additionally, the integrated chip magnification system ranging from 2X to 50X facilitates enhanced visual inspection and precise positioning, which is essential for intricate motherboard repair tasks.

This BGA rework station is perfect for various application scenarios including mobile phone motherboard repair, laptop motherboard refurbishment, and the maintenance of other electronic devices that utilize BGA chips. It is widely used in repair shops, electronic manufacturing services (EMS), quality control labs, and research and development centers. The WDS-800A's reliable performance combined with its user-friendly semi-automatic features make it an indispensable tool for technicians aiming to deliver high-quality motherboard repair and BGA rework services.

In summary, the Wisdomshow WDS-800A Semi Automatic BGA Rework Station offers a comprehensive solution for precision motherboard repair and BGA rework. Its robust design, accurate placement capability, and versatile application range make it a must-have for professionals seeking efficiency and reliability in the electronics repair industry.

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