Placement Accuracy ±0.02mm Semi Automatic WDS-800A BGA Rework Station Featuring Chip Magnification 2-50X Power Supply 5060Hz Ideal for PCB Rework

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

- Max PCB Size: 610×480mm
- Chip Magnification: 2-50X
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Total Power: 8400W
- Placement Accuracy: ±0.02mm
- Power Supply: AC220V±10%, 50/60Hz
- 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 reliable and efficient tool designed for precise and professional repair and rework of Ball Grid Array (BGA) components. Equipped with advanced features and state-of-the-art technology, this rework station ensures accurate heating control and superior performance, making it an essential device for electronics repair professionals and technicians. One of the standout features of this BGA rework station is its infrared preheating table, which provides uniform and consistent preheating of circuit boards, minimizing the risk of thermal damage and improving solder joint quality.

This semi automatic BGA rework station is engineered with 5 thermocouple ports, allowing for multiple temperature measurements simultaneously. This multi-point temperature sensing capability enhances the precision of the heating process by monitoring various critical points on the PCB and the chip itself. The result is a more controlled and reliable rework process, reducing the chances of overheating or insufficient heating during component replacement.

The device operates on a stable and efficient AC220V±10%, 50/60Hz power supply, ensuring compatibility with standard electrical systems and consistent performance. Users can rely on this power supply specification to maintain steady operation without fluctuations that could affect the delicate rework procedure. The semi automatic nature of the station streamlines the workflow, balancing automation with manual control for optimal flexibility and user intervention when necessary.

One of the key technological advantages of this BGA rework station is its temperature control system. Utilizing a closed-loop K-type thermocouple configuration, it independently controls the upper and lower heating elements. This dual-zone heating capability allows for precise temperature management with an accuracy of ±1°C, which is critical for sensitive electronic components. The closed-loop system continuously monitors and adjusts the temperature, ensuring stable and consistent heating throughout the rework cycle.

The station is designed to accommodate a broad range of chip sizes, from as small as 0.8*0.8mm up to 80*80mm. This wide applicability makes it suitable for various types of BGA chips and other surface-mounted devices, providing versatility for different repair tasks. Additionally, the integrated chip magnification system offers a zoom range of 2-50X, enabling technicians to closely inspect solder joints and component alignment during the rework process. This magnification feature improves accuracy and helps in achieving high-quality soldering results.

With its combination of an infrared preheating table, precise temperature control, and versatile chip handling capabilities, the Semi Automatic BGA Rework Station stands out as a comprehensive solution for BGA repair and rework. It not only enhances the efficiency and quality of electronic repairs but also reduces the risk of damaging sensitive components. Whether used in small repair shops or advanced electronics manufacturing environments, this BGA rework station delivers consistent and reliable performance.

In summary, this semi automatic BGA rework station is an indispensable tool for professionals who require precise temperature management and flexible operation in their BGA repair tasks. Its 5 thermocouple ports, robust power supply, closed-loop K-type thermocouple temperature control with ±1°C accuracy, support for chip sizes ranging from 0.8*0.8mm to 80*80mm, and 2-50X chip magnification system combine to offer a highly effective and user-friendly rework solution. The inclusion of an infrared preheating table further enhances its capabilities by ensuring even heating and reducing thermal stress on circuit boards. This product is the ideal choice for achieving high precision, reliability, and efficiency in BGA rework applications.

Features:

Product Name: Semi Automatic BGA Rework Station
Power Supply: AC220V±10%, 50/60Hz
Max PCB Size: 610*480mm
Temperature Control: Closed-loop K-type Thermocouple with ±1°C Accuracy
Upper & Lower Independent Heating with Three Heating Zone
Chip Magnification: 2-50X for precise inspection
Equipped with an advanced Optical Alignment System for accurate positioning
Thermocouple Ports: 5 Pcs for detailed temperature monitoring
Ideal for CPU Repair and other delicate electronic component rework

Technical Parameters:

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

Applications:

The Wisdomshow WDS-800A Semi Automatic BGA Rework Station is a highly reliable and efficient tool designed for precision soldering and desoldering of Ball Grid Array (BGA) components. Originating from Shenzhen, China, this product is CE certified, ensuring it meets stringent quality and safety standards. With a power supply of AC220V±10%, 50/60Hz and a total power of 8400W, the WDS-800A delivers exceptional performance for various electronic repair tasks. Its advanced optical alignment system allows technicians to achieve precise positioning and alignment of BGA chips, which is crucial for successful rework operations.

This rework station is ideal for a wide range of application occasions and scenarios, particularly in the field of CPU repair and other high-density electronic components. The optical alignment system integrated into the device enhances the accuracy of chip placement, reducing the risk of damage and improving the overall quality of repairs. Equipped with five thermocouple ports and a closed-loop K-type thermocouple temperature control system, the WDS-800A ensures independent heating of the upper and lower zones with ±1°C accuracy. This precise temperature control is vital for delicate soldering processes, preventing overheating and ensuring reliable connections.

The semi-automatic operation of the WDS-800A allows users to efficiently handle repetitive tasks in electronics manufacturing and repair workshops. The chip magnification range of 2-50X provides clear and detailed visualization of tiny BGA components, facilitating meticulous inspection and alignment. This makes the Wisdomshow WDS-800A particularly suitable for electronics manufacturers, repair centers, and laboratories engaged in CPU repair, mobile phone motherboard refurbishment, and other microelectronic component servicing.

With a supply ability of 200 sets per month and a minimum order quantity of just one unit, the WDS-800A is accessible to both small-scale repair shops and larger production facilities. The product is delivered securely in a wooden case, ensuring safe transport and handling. Its delivery time of 3-5 days and convenient TT payment terms make it a practical choice for businesses needing prompt and dependable equipment. Overall, the Wisdomshow WDS-800A Semi Automatic BGA Rework Station is an essential tool for any scenario requiring precise and efficient BGA rework, especially in CPU repair and other advanced electronic applications.

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