Semi Automatic BGA Rework Station BGA Repair Machine with 0.8×0.8mm-80×80mm Applicable Chip Size, 550×480mm Max PCB Size and 4 Thermocouple Ports

Our Product Introduction

Basic Information

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



Product Specification

- Placement Accuracy: ±0.02mm
- Applicable Chip Size: 0.8×0.8mm-80×80mm
- Power Supply: AC220V±10%, 50/60Hz
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Total Power: 8200W
- Chip Magnification: 2-50X
- Thermocouple Ports: 4 Pcs
- Max PCB Size: 550×480mm
- Highlight: **BGA rework station AC220V**, **semi automatic BGA rework station**, **BGA rework station PCB repair**



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Product Description

Product Description:

The Semi Automatic BGA Rework Station is a highly efficient and reliable tool designed for precision electronic repair and rework tasks, especially focusing on Ball Grid Array (BGA) components. Engineered to meet the demanding requirements of modern electronics manufacturing and repair, this BGA rework station offers a perfect blend of advanced technology and user-friendly operation, making it an essential device for professionals involved in CPU repair and other intricate circuit board work.

One of the standout features of this BGA rework station is its capability to handle a maximum PCB size of 550*480mm. This generous working area allows technicians to work on a wide variety of circuit boards, from small mobile device motherboards to larger industrial PCBs, without the need for additional equipment. The spacious platform ensures that users can easily position and secure the PCB for precise rework and repair operations.

Precision is crucial when dealing with BGA components, and this rework station excels in this aspect with a placement accuracy of ±0.02mm. Such high precision ensures that the BGA chips are aligned perfectly during the soldering and desoldering process, significantly reducing the risk of defective joints and improving the overall reliability of the repair. This level of accuracy is particularly beneficial in CPU repair, where even the slightest misalignment can lead to malfunction or permanent damage.

Powering the Semi Automatic BGA Rework Station is a robust total power output of 8200W, which provides ample heating capability for rapid and uniform temperature control. The station supports a power supply of AC220V±10%, 50/60Hz, making it compatible with standard electrical systems in many regions worldwide. This reliable power configuration ensures stable performance and consistent heating, essential for the delicate thermal processes involved in BGA soldering and desoldering.

Another notable feature is the inclusion of four thermocouple ports. These ports allow for the connection of multiple thermocouples to monitor temperatures at various points on the PCB during the rework process. Accurate temperature monitoring is critical to prevent overheating and damage to sensitive components, thereby enhancing the safety and effectiveness of the repair. The thermocouple functionality supports precise temperature profiling, which is indispensable for advanced CPU repair applications.

The semi-automatic nature of this BGA rework station strikes a perfect balance between manual control and automated assistance. It empowers technicians with the flexibility to adjust parameters and oversee the rework process closely while benefiting from automation that ensures consistency and reduces human error. This makes the device suitable for both experienced professionals and those who are new to CPU repair and BGA rework tasks.

Designed with durability and ease of use in mind, the BGA rework station features a robust construction that can withstand the rigors of daily use in busy repair shops and manufacturing environments. Its intuitive interface simplifies operation, allowing users to set and monitor process parameters quickly and efficiently. This user-centric design helps to minimize downtime and maximize productivity.

In summary, the Semi Automatic BGA Rework Station is an indispensable tool for anyone involved in the repair and maintenance of BGA components, including CPU repair. With its large PCB handling capacity, exceptional placement accuracy, powerful heating capability, and advanced temperature monitoring, it provides a comprehensive solution that meets the highest standards of quality and reliability. Whether you are refurbishing motherboards, repairing CPUs, or performing complex electronic rework, this BGA rework station offers the precision, power, and versatility you need to achieve outstanding results every time.

Features:

Product Name: Semi Automatic BGA Rework Station

Power Supply: AC220V±10%, 50/60Hz

Thermocouple Ports: 4 Pcs for precise temperature monitoring

Applicable Chip Size: Supports 0.8*0.8mm to 80*80mm chips

Total Power: 8200W for efficient heating performance

Placement Accuracy: High precision with ±0.02mm accuracy

Semi automatic operation for ease of use in motherboard repair

Specially designed BGA rework station to ensure reliable soldering and desoldering

Technical Parameters:

Applicable Chip Size	0.8*0.8mm - 80*80mm
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
Max PCB Size	550*480mm
Power Supply	AC220V±10%, 50/60Hz
Thermocouple Ports	4 Pcs
Chip Magnification	2-50X
Placement Accuracy	±0.02mm
Total Power	8200W

Applications:

The Wisdomshow WDS-800D Semi Automatic BGA Rework Station is an essential tool designed for professional electronics repair and manufacturing environments. Originating from Shenzhen, China, and certified by CE, this high-performance device offers precise and reliable solutions for BGA (Ball Grid Array) component rework. Its advanced features make it ideal for various application occasions and scenarios, particularly in motherboard repair and other intricate PCB tasks.

One of the key components of the WDS-800D is its infrared preheating table, which ensures uniform heating of the PCB before the reflow process. This feature is crucial for preventing thermal stress and minimizing the risk of damage to delicate components during repairs. The infrared preheating table supports a maximum PCB size of 550*480mm, making it suitable for a wide range of electronic boards from small consumer electronics to larger industrial motherboards.

The semi-automatic nature of this BGA rework station allows technicians to achieve high precision with ease. It is capable of handling chip sizes ranging from 0.8*0.8mm to 80*80mm, which covers most commonly used BGA packages in the industry. The station's temperature control system employs a closed-loop K-type thermocouple with upper and lower independent heating zones, maintaining an accuracy of ±1°C. This precise temperature regulation is essential when performing sensitive tasks such as motherboard repair, where overheating can cause irreversible damage.

With a total power of 8200W and a power supply requirement of AC220V±10%, 50/60Hz, the Wisdomshow WDS-800D ensures stable and efficient performance. It is packaged securely in a wooden case to protect the equipment during shipping, and the delivery time is typically between 3 to 5 days. The minimum order quantity is just one unit, making it accessible for both individual technicians and larger repair centers. Payment terms are flexible, with TT accepted, and the manufacturer can supply up to 200 sets per month, ensuring steady availability.

In summary, the Wisdomshow WDS-800D Semi Automatic BGA Rework Station is perfectly suited for professional repair workshops, electronic manufacturing units, and R&D labs where motherboard repair and precise BGA rework are regularly performed. Its infrared preheating table, accurate temperature control, and capability to handle a wide range of chip sizes make it a versatile and reliable choice for ensuring high-quality electronic repairs and assembly.

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