



Shenzhen Wisdomshow Technology Co.,Ltd
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Fully Automatic BGA Rework Station with 12000W Power, ± 0.01 mm SMT Precision, and 640*490mm Max PCB Size

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: WDS
- Model Number: WDS1800



Product Specification

- Machine Weight: 580kg
- Max Pcb Size: 640*490mm
- Voltage: 220/110V
- Mini Pcb Size: 10*10mm
- Pcb Position Mode: V Type Card Slot+universal Fixture
- Bottom Heater Power: Max 8000W
- Power Supply: Ac380v $\pm 10\%$ 50/60hz
- Smt Precision: ± 0.01 mm
- Highlight: fully automatic BGA rework station,
PCB thickness 08mm to 8mm device,
accurate processing automatic manufacturing
device



More Images



Product Description:

The Fully Automatic BGA Rework Station is a state-of-the-art solution designed for precision and efficiency in the repair and reballing of BGA (Ball Grid Array) components. This advanced machine is engineered to meet the demanding needs of modern electronics manufacturing and repair facilities, offering unparalleled performance through its robust features and innovative technology. One of the standout features of this rework station is its impressive power capacity. With a total power rating of 12000W, the machine ensures rapid heating and consistent temperature control, which are critical for successful BGA rework processes. The upper heater alone delivers a maximum power of 1200W, enabling precise and uniform heat application to the components, reducing the risk of thermal damage and improving overall repair quality.

The Fully Automatic BGA Rework Station is equipped with an automatic vision alignment system, which significantly enhances the accuracy and ease of component positioning. This automatic alignment technology uses advanced imaging techniques to precisely locate the BGA pads and solder balls, minimizing human error and ensuring perfect alignment every time. This feature is especially valuable for complex reballing tasks, where precision is paramount.

To accommodate a wide range of PCB sizes and configurations, the station incorporates a versatile PCB position mode that combines a V type card slot with a universal fixture. This dual positioning system provides secure and stable mounting for various PCB types, allowing operators to work with confidence and efficiency. The universal fixture is adaptable, making the machine suitable for different board dimensions and shapes, further expanding its application scope.

Despite its powerful capabilities, the Fully Automatic BGA Rework Station is designed with user convenience in mind. It features a large size touch screen interface that provides intuitive control and straightforward operation. This touch screen allows technicians to easily set parameters, monitor the rework process, and make adjustments in real time. The graphical user interface is user-friendly, reducing the learning curve and enhancing productivity in busy workshop environments.

Weighing approximately 580KG, this machine combines robustness with stability, ensuring that it remains firmly in place during operation. Its substantial weight contributes to vibration reduction and enhances operational precision, which is critical for the delicate processes involved in BGA rework and reballing. The sturdy construction also guarantees long-term durability and reliability, making it a valuable investment for any repair or manufacturing facility.

The Fully Automatic BGA Rework Station is not just a rework machine; it represents a comprehensive reballing machine solution that integrates heating, alignment, and positioning into one seamless system. This integration streamlines workflows, reduces turnaround times, and improves the overall quality of BGA repairs. Whether used for prototype development, small batch production, or large-scale repair operations, this machine delivers consistent results with minimal operator intervention.

In summary, the Fully Automatic BGA Rework Station is an essential tool for professionals working with BGA components. Its high power output, automatic vision alignment, versatile PCB positioning, and large size touch screen interface combine to offer superior performance and ease of use. The machine's robust design and precise control mechanisms make it ideal for reballing and rework tasks, ensuring that electronic assemblies are restored to optimal functionality quickly and efficiently. Investing in this advanced rework station means equipping your facility with cutting-edge technology capable of meeting the challenges of modern electronics repair and manufacturing.

Features:

- Product Name: Fully Automatic BGA Rework Station
- Upper Heater Power: Max 1200W for efficient heating
- PCB Position Mode: V Type Card Slot with universal fixture for precise alignment
- Minimum PCB Size Supported: 10*10mm
- SMT Precision: ±0.01mm ensuring high accuracy
- Total Power Consumption: 12000W
- Functions as a reablling machine for effective component replacement
- Acts as a reliable soldering station for various manufacturing needs
- Designed specifically for manufacture to enhance productivity and quality

Technical Parameters:

Max PCB Size	640*490mm
PCB Position Mode	V Type Card Slot + Universal Fixture
Power	12000W
PCB Thickness	0.8mm - 8mm
Vision Alignment	Automatic Alignment
Software Control	Windows Based
Power Supply	AC380V ±10%, 50/60Hz
Mini PCB Size	10*10mm
Bottom Heater Power	Max 8000W
Machine Weight	580kg

Applications:

The WDS Fully Automatic BGA Rework Station, model WDS1800, is an advanced technology solution designed for precise and efficient rework of Ball Grid Array (BGA) components. Originating from China, this state-of-the-art machine boasts a remarkable SMT precision of $\pm 0.01\text{mm}$, ensuring exceptional accuracy in handling complex PCB assemblies. Its robust design, weighing 580kg, guarantees stability and durability during intensive rework processes.

This rework station is ideal for a variety of application occasions and scenarios, particularly in electronics manufacturing and repair industries. It is extensively used in the production lines of consumer electronics, automotive electronics, telecommunications equipment, and industrial control systems where high precision and reliability are paramount. The WDS1800's capability to accommodate PCBs up to 640*490mm makes it versatile for working on a wide range of board sizes, from small handheld devices to larger industrial circuit boards. The machine's upper heater, with a maximum power of 1200W, combined with a total power capacity of 12000W, allows for rapid and uniform heating. This ensures accurate temperature control, which is critical for preventing thermal damage to sensitive electronic components during the rework process. The precise temperature regulation enhances solder joint quality and minimizes the risk of PCB warping or component displacement.

In addition to its technical prowess, the WDS1800 features a high-definition (HD) monitor that provides clear visualization of the rework area, enabling operators to perform intricate tasks with greater confidence and accuracy. This advanced display system supports real-time monitoring and adjustments, streamlining workflow and reducing the likelihood of errors.

Whether used in research and development labs, quality control departments, or repair centers, the WDS Fully Automatic BGA Rework Station is an indispensable tool for professionals requiring high precision and reliable performance. Its combination of advanced technology, accurate temperature control, and ergonomic design makes it perfectly suited for demanding rework scenarios, ensuring superior results and enhanced productivity.

Support and Services:

Our Fully Automatic BGA Rework Station is designed to provide precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. To ensure optimal performance and longevity of the equipment, we offer comprehensive technical support and services.

Technical Support includes detailed user manuals, setup guidance, and troubleshooting assistance to help you get the most out of your BGA rework station. Our team of experts is available to provide step-by-step instructions and answer any technical questions you may have regarding the operation and maintenance of the device.

We also offer software updates to improve functionality and add new features, ensuring your equipment stays up to date with the latest advancements in rework technology.

Maintenance services are available to keep your BGA rework station in peak condition. This includes routine inspections, calibration, and part replacements as necessary. Our service technicians are trained to handle all aspects of repair and maintenance to minimize downtime and extend the life of your equipment.

For customers requiring customized solutions, we provide consultation services to tailor the rework station's settings and accessories to specific application needs, enhancing precision and efficiency in your production process.

We are committed to delivering high-quality after-sales support to ensure your satisfaction and success with the Fully Automatic BGA Rework Station.

Packing and Shipping:

The Fully Automatic BGA Rework Station is carefully packaged to ensure maximum protection during transit. Each unit is securely placed in a custom-fitted foam insert within a sturdy, high-quality cardboard box designed to absorb shocks and prevent damage.

All accessories and components are individually wrapped and organized to avoid any movement inside the package. The packaging includes detailed user manuals, warranty cards, and necessary cables, neatly arranged for easy access upon unpacking.

For shipping, we use reliable courier services with tracking options to guarantee timely and safe delivery. The package is clearly labeled with handling instructions such as "Fragile" and "Handle with Care" to ensure careful treatment throughout the shipping process.

International shipments include proper customs documentation to facilitate smooth clearance and delivery to your destination.

FAQ:

Q1: What is the brand and model number of this BGA Rework Station?

A1: The BGA Rework Station is manufactured by WDS, and the model number is WDS1800.

Q2: Where is the WDS1800 Fully Automatic BGA Rework Station made?

A2: This BGA Rework Station is made in China.

Q3: What types of components can the WDS1800 handle?

A3: The WDS1800 is designed to handle a variety of BGA (Ball Grid Array) components, including QFP, QFN, and other surface-mounted devices.

Q4: Is the WDS1800 easy to operate for beginners?

A4: Yes, the WDS1800 is fully automatic and user-friendly, featuring an intuitive interface that makes it suitable for both beginners and experienced technicians.

Q5: What kind of heating technology does the WDS1800 use?

A5: The WDS1800 utilizes advanced infrared and hot air heating technology to ensure precise and even heat distribution for effective rework and soldering.



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