



WDS-1800 Fully Automatic BGA Rework Station with Windows Based Software Control and Fully Automatic Feeding Device

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: WDS
- Certification: CE FDA ISO
- Model Number: WDS1800
- Minimum Order Quantity: 1
- Price: US \$10860-12650
- Packaging Details: Wooden case
- Delivery Time: 45 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union



Product Specification

- Upper Heater Power: Max 1200W
- Max Pcb Size: 640*490mm
- Feeding Device: Fully Automatic
- Weight: About 580KG
- Vision Alignment: Automatic Alignment
- Voltage: 220/110V
- Software Control: Windows Based
- Pcb Position Mode: V Type Card Slot+universal Fixture
- Highlight: **12000W BGA Rework Machine, Windows Based Software Control BGA Repair Station**
Fully Automatic Feeding Device BGA Rework Station



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Product Description:



The Fully Automatic BGA Rework Station is an advanced and highly precise solution designed specifically for large BGA rework applications in manufacturing environments. Engineered to meet the demanding requirements of modern electronics production, this station combines cutting-edge technology with user-friendly software controls to deliver outstanding performance, accuracy, and efficiency.

One of the standout features of this rework station is its exceptional SMT precision, boasting an accuracy of $\pm 0.01\text{mm}$. This high level of precision ensures that even the most delicate and complex components are handled with utmost care, minimizing the risk of errors and defects during the rework process. The precise alignment capability is critical for large BGA rework tasks where exact placement and soldering integrity are paramount to the functionality of the final product.

The station is equipped with a powerful upper heater capable of delivering a maximum power output of 1200W. This robust heating system guarantees rapid and uniform heating of the components and printed circuit boards, which is essential for effective soldering and desoldering operations. The powerful heater significantly reduces process times while maintaining thermal stability, thereby enhancing productivity and reducing thermal stress on sensitive electronic parts.

Designed for efficient and automated operation, the rework station features a fully automatic feeding device. This automation eliminates the need for manual intervention in component feeding, streamlining the workflow and reducing human error. The fully automatic feeding mechanism is particularly beneficial in high-volume manufacturing settings where consistency and speed are critical to meeting production targets.

Powering this sophisticated equipment is a reliable AC380V $\pm 10\%$ power supply, operating at 50/60Hz. This power specification ensures stable and consistent energy delivery to the system, supporting its high-performance components and enabling continuous operation in industrial environments. The robust power supply framework contributes to the machine's durability and long-term reliability.

The control interface of the Fully Automatic BGA Rework Station is based on a Windows platform, providing an intuitive and versatile software control system. This Windows-based software allows operators to easily configure and monitor the rework process, access detailed diagnostics, and customize settings to accommodate a wide range of BGA sizes and types. The software's user-friendly design enhances operational efficiency and facilitates quick training for new users.

In addition to its technical specifications, the station features X/Y/Z moveable axes, providing flexibility and precision in positioning the components during the rework process. This three-dimensional movement capability ensures that the rework can be performed accurately on various points of the board, accommodating complex designs and multiple component layouts. The X/Y/Z moveability is essential for handling large BGA rework tasks where precise spatial adjustments are necessary to achieve optimal results.

Overall, the Fully Automatic BGA Rework Station is an indispensable tool for manufacturers looking to enhance their rework capabilities, especially for large BGA components. Its combination of high SMT precision, powerful heating, fully automated feeding, stable power supply, and advanced Windows-based software control makes it an ideal choice for demanding production lines. The X/Y/Z moveable feature further adds to its versatility, making it suitable for a wide range of applications in the electronics manufacturing industry.

By integrating this rework station into your manufacturing process, you can expect improved product quality, increased throughput, and reduced downtime. Its design prioritizes both performance and ease of use, ensuring that operators can achieve consistent, reliable results with minimal effort. Whether you are addressing complex rework challenges or aiming to streamline your production workflow, the

Fully Automatic BGA Rework Station stands out as a comprehensive and effective solution for large BGA rework in manufacturing.

Features:

Product Name: Fully Automatic BGA Rework Station

Power: 12000W for efficient heating performance

Bottom Heater Power: Maximum 8000W to ensure even and rapid heating

Voltage: Compatible with 220V and 110V power supplies

Power Supply: AC 380V $\pm 10\%$, 50/60Hz for stable and reliable operation

Mini PCB Size Support: Capable of handling PCB sizes as small as 10*10mm

Industry Degrees: Designed for high precision and professional industry-grade applications

X/Y/Z Moveable: Equipped with X, Y, and Z axis movement for precise component placement and alignment

Specialized for BGA components: Ideal for Ball Grid Array (BGA) rework and repair tasks

Technical Parameters:

Smt Precision	$\pm 0.01\text{mm}$
Power Supply	AC380V $\pm 10\%$, 50/60Hz
Mini PCB Size	10*10mm
Vision Alignment	Automatic Alignment
Software Control	Windows Based
PCB Thickness	0.8mm - 8mm
Power	12000W
Bottom Heater Power	Max 8000W
Voltage	220/110V
Feeding Device	Fully Automatic

Applications:

The WDS WDS1800 Fully Automatic BGA Rework Station is an advanced piece of equipment designed to meet the demands of modern electronic manufacturing and repair environments. Originating from China, this state-of-the-art machine combines precision, efficiency, and ease of use, making it an essential tool for professionals dealing with complex PCB repairs and assembly tasks.

One of the primary application occasions for the WDS1800 is in electronics manufacturing plants where the reballing and rework of Ball Grid Array (BGA) components are routine. The station's full automatic operation, controlled via Windows-based software, ensures that rework processes are consistent, accurate, and highly repeatable. This capability is crucial in high-volume production lines that require minimal downtime and maximum throughput.

The WDS1800 is also ideal for repair centers specializing in semiconductor and electronic device maintenance. Its X/Y/Z moveable platform allows precise positioning of PCBs, accommodating board sizes from a mini 10*10mm up to a maximum of 640*490mm, which covers a broad range of devices from small modules to larger, complex circuit boards. The bottom heater, with a maximum power of 8000W, ensures uniform heating, reducing the risk of thermal damage during the reballing or rework process.

In addition, the WDS1800 serves as a versatile reballing machine, enabling technicians to refurbish BGA components efficiently. This capability is particularly valuable in scenarios where replacing an entire PCB is cost-prohibitive or impractical. The machine's heavy-duty build, weighing about 580KG, provides stability and precision during operations, further enhancing its reliability in professional settings.

The full automatic nature of this rework station, combined with its software-controlled interface, makes it suitable for educational institutions and research labs focusing on electronics prototyping and development. Trainees and engineers can benefit from hands-on experience with a machine that reflects industry standards, improving their skills in BGA rework and assembly.

Overall, the WDS WDS1800 Fully Automatic BGA Rework Station is perfectly suited for manufacturing, repair, reballing, prototyping, and research scenarios where precision and efficiency are paramount. Its robust features, including X/Y/Z moveable axes, powerful heating, and extensive PCB size compatibility, make it an indispensable tool in the evolving landscape of electronic component rework.

Customization:

Our Fully Automatic BGA Rework Station, model WDS1800 by WDS, offers exceptional product customization services tailored to meet your specific industry computer repair and manufacturing needs. Originating from CHINA, this advanced technology equipment ensures high precision with a SMT precision of $\pm 0.01\text{mm}$, enabling flawless BGA component handling.

The station features a powerful upper heater with a maximum output of 1200W and a total power capacity of 12000W, supporting voltage options of 220V or 110V to fit various operational environments. Its software control is Windows based, providing user-friendly and efficient control over the rework process.

Whether you require modifications in temperature settings, software customization, or integration with your existing BGA repair systems, our customization services are designed to enhance your workflow and improve productivity using cutting-edge advanced technology.

Support and Services:

Our Fully Automatic BGA Rework Station is designed to provide precise and efficient repair and rework solutions for Ball Grid Array components on printed circuit boards. To ensure optimal performance and longevity of the equipment, we offer comprehensive technical support and services tailored to your needs.

Technical support includes assistance with installation, calibration, and operation of the rework station. Our experienced technicians are available to guide you through the setup process and provide training on the use of the system to maximize productivity and accuracy. We also offer routine maintenance services to keep your BGA rework station in excellent working condition. This includes inspection, cleaning, software updates, and replacement of worn parts as necessary. Preventive maintenance helps to minimize downtime and extend the life of your equipment.

In case of any technical issues or malfunctions, our support team is ready to troubleshoot and resolve problems promptly. We provide repair services using genuine replacement parts to ensure the reliability and safety of your station.

Additionally, we supply detailed user manuals and troubleshooting guides to assist you in resolving common issues independently. For customized service plans or extended warranty options, please inquire about our flexible support packages designed to meet your specific operational requirements.

Our commitment is to deliver high-quality support and services that help you achieve the best results with your Fully Automatic BGA Rework Station, ensuring minimal disruption and maximum efficiency in your rework processes.

Packing and Shipping:

Our Fully Automatic BGA Rework Station is carefully packaged to ensure it arrives in perfect condition. Each unit is securely placed in a custom-molded foam insert within a sturdy, double-walled cardboard box to protect it from shocks and impacts during transit.

All accessories and components are individually wrapped and organized to prevent damage and loss. The packaging also includes detailed user manuals and warranty information for your convenience.

For shipping, we use reliable carriers with tracking services to guarantee timely and safe delivery. The product is shipped with protective outer packaging and clearly marked handling instructions to ensure it is treated with care throughout the shipping process.

We also offer optional expedited shipping and insurance for added security and faster delivery, providing you with peace of mind when ordering our Fully Automatic BGA Rework Station.

FAQ:

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

A1: The brand name is WDS and the model number is WDS1800.

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

A2: This product is made in China.

Q3: What types of components can the WDS1800 BGA Rework Station handle?

A3: The WDS1800 is designed to handle BGA, QFP, SOP, and other surface mount devices with precision and efficiency.

Q4: Does the WDS1800 support automatic temperature control?

A4: Yes, the WDS1800 features fully automatic temperature control to ensure optimal rework conditions and protect sensitive components.

Q5: Is the WDS1800 suitable for both repair and prototype production?

A5: Absolutely, the WDS1800 is ideal for both repairing defective boards and for use in prototype production due to its accuracy and ease of use.



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