



WDS1800 Fully Automatic BGA Rework Station with Windows Based Software Control, $\pm 0.01\text{mm}$ SMT Precision, and Max 8000W Bottom Heater Power

Our Product Introduction

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Basic Information

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



Product Specification

- Software Control: Windows Based
- Smt Precision: $\pm 0.01\text{mm}$
- Upper Heater Power: Max 1200W
- Pcb Position Mode: V Type Card Slot+universal Fixture
- Voltage: 220/110V
- Mini Pcb Size: 10*10mm
- Bottom Heater Power: Max 8000W
- Weight: About 580KG
- Highlight: **Windows Based Software Control BGA Rework Station**
, $\pm 0.01\text{mm}$ SMT Precision BGA Rework Machine
Max 8000W Bottom Heater Power BGA Repair Station



Product Description:

The Fully Automatic BGA Rework Station is an advanced and highly efficient piece of equipment designed specifically for precision soldering and reworking of Ball Grid Array (BGA) components. This state-of-the-art machine is ideal for manufacturing environments where accuracy, speed, and reliability are paramount. Engineered to meet the demands of modern electronics production, this rework station integrates cutting-edge technology with user-friendly features to deliver unparalleled performance.

One of the standout features of this Fully Automatic BGA Rework Station is its Windows-based software control system. The intuitive software interface offers seamless integration with various manufacturing processes, allowing operators to program and monitor the rework tasks with ease. The Windows platform ensures compatibility with a wide range of applications and provides flexibility for future updates and enhancements. This software control system also allows for precise adjustments, ensuring optimal reflow profiles tailored to different PCB and component specifications.

Precision is at the core of this rework station's design. With an SMT precision of $\pm 0.01\text{mm}$, it guarantees meticulous alignment and placement of components, which is critical when dealing with miniature electronic parts. This level of accuracy reduces the risk of defects and enhances the overall quality of the final product. The machine's precision mechanics and sensors work in harmony to achieve consistent results, making it an indispensable tool for high-end manufacturing processes.

The Fully Automatic BGA Rework Station supports a minimum PCB size of $10 \times 10\text{mm}$, enabling the handling of very small and delicate circuit boards with ease. This capability is especially valuable for industries such as telecommunications, consumer electronics, and medical devices, where compact PCBs are common. Despite its ability to manage small sizes, the machine is robust and versatile enough to accommodate various PCB dimensions, making it highly adaptable to different production needs.

Powerful and efficient, the rework station boasts a power rating of 12000W, ensuring rapid heating and cooling cycles to optimize workflow and reduce downtime. The high power output contributes to uniform heat distribution, which is essential for preventing thermal damage and ensuring the integrity of the solder joints. This makes the machine suitable for both prototyping and full-scale production runs, offering manufacturers the flexibility to scale operations without compromising on quality.

Another key attribute of this product is its fully automatic feeding device. Automation in feeding not only streamlines the rework process but also minimizes human error and increases throughput. The feeding mechanism is designed to handle components and PCBs efficiently, contributing to smoother operation and higher productivity. This feature is particularly beneficial in high-volume manufacturing settings, where speed and precision are crucial.

For manufacturers looking to upgrade their production line, this BGA rework station offers a large size touch screen that enhances usability and control. The touch screen interface provides clear and detailed visual feedback, making it easier for operators to set parameters, monitor progress, and make real-time adjustments. This ergonomic design reduces training time and operator fatigue, ultimately improving overall efficiency.

Additionally, the Fully Automatic BGA Rework Station can function as a reballing machine, enabling the refurbishment of BGA components by replacing solder balls accurately and efficiently. This dual functionality adds significant value, allowing manufacturers to extend the life of their components and reduce material costs. The reballing process is seamlessly integrated into the machine's operation, ensuring consistent quality and reliability.

In summary, the Fully Automatic BGA Rework Station is a comprehensive solution for modern electronics manufacturing. Its Windows-based software control, high SMT precision of $\pm 0.01\text{mm}$, capability to handle mini PCBs as small as $10 \times 10\text{mm}$, powerful 12000W heating system, and fully automatic feeding device make it a top choice for manufacturers seeking efficiency, accuracy, and versatility. The inclusion of a large size touch screen enhances user experience, while the added functionality as a reballing machine provides cost-effective maintenance options. This machine is an essential investment for any production facility aiming to achieve superior quality and operational excellence in BGA rework and assembly.

Features:

- Product Name: Fully Automatic BGA Rework Station
- Bottom Heater Power: Max 8000W
- Total Power: 12000W
- Weight: About 580KG
- PCB Position Mode: V Type Card Slot + Universal Fixture
- SMT Precision: $\pm 0.01\text{mm}$
- X/Y/Z moveable for precise component placement
- Incorporates advanced technology for efficient rework processes
- Functions as a reliable reballing machine for BGA components

Technical Parameters:

Weight	About 580KG
Feeding Device	Fully Automatic
Max PCB Size	640*490mm
Voltage	220/110V
Power Supply	AC380V $\pm 10\%$, 50/60Hz
Mini PCB Size	$10 \times 10\text{mm}$
Software Control	Windows Based
Vision Alignment	Automatic Alignment

Machine Weight	580kg
Bottom Heater Power	Max 8000W

This fully automatic BGA rework station is an advanced reballing machine featuring a large size touch screen and industry computer for precise control and efficient operation.

Applications:

The WDS Fully Automatic BGA Rework Station, model WDS1800, originating from China, is a highly specialized and precise soldering station designed to meet the demanding needs of modern electronics manufacturing and repair. With its fully automatic feeding device and exceptional SMT precision of $\pm 0.01\text{mm}$, this rework station is ideal for handling a wide range of BGA components, including those found in industry computer applications where reliability and accuracy are critical.

One of the primary application occasions for the WDS1800 is in the repair and rework of large BGA components. Its capability to accommodate a maximum PCB size of $640 \times 490\text{mm}$ allows technicians to work on oversized boards commonly used in industry computer systems, telecommunications, and advanced industrial control equipment. This flexibility ensures that even the most complex and densely packed PCBs can be serviced efficiently, reducing downtime and improving overall production throughput.

In scenarios where mini PCB sizes are involved, such as $10 \times 10\text{mm}$ boards, the WDS1800 maintains its high precision and reliability. This makes it equally suitable for delicate and miniature electronic assemblies, including those found in consumer electronics, medical devices, and automotive control units. The station's weight of about 580KG underscores its robust construction and stability, which is essential for maintaining consistent quality during soldering and rework operations.

The fully automatic feeding device enhances operational efficiency by streamlining the loading and unloading processes, thereby minimizing manual intervention and the risk of damage to sensitive components. This feature is especially beneficial in high-volume production environments or repair workshops specializing in industry computer hardware, where speed and accuracy are paramount. Overall, the WDS1800 Fully Automatic BGA Rework Station is an indispensable tool for electronics manufacturers and repair professionals dealing with large BGA rework tasks. Its combination of precision, automation, and capacity makes it perfectly suited for various industry computer applications, ensuring reliable soldering and rework results every time. Whether used in R&D labs, manufacturing floors, or specialized repair centers, this soldering station delivers superior performance and consistency.

Customization:

The WDS Fully Automatic BGA Rework Station, model number WDS1800, is a high-quality reballing machine designed for precision and efficiency in the electronics manufacturing industry. Originating from CHINA, this advanced machine features a robust build with a machine weight of 580kg, ensuring stability during operation.

Equipped with a large size touch screen, the WDS1800 offers an intuitive and user-friendly interface, making the rework process seamless and efficient. The machine supports a PCB position mode of V Type Card Slot combined with a universal fixture, allowing it to handle a wide range of PCB sizes, with a minimum PCB size of $10 \times 10\text{mm}$.

Operating on a voltage of 220/110V, this fully automatic reballing machine integrates a fully automatic feeding device to streamline workflow and reduce manual intervention. The WDS1800 is built to meet industry degrees standards, ensuring reliable performance and consistent quality in every application.

Support and Services:

Our Fully Automatic BGA Rework Station is designed to provide precise and efficient soldering and desoldering for Ball Grid Array components. This advanced system integrates intelligent heating control, high-resolution vision alignment, and programmable process settings to ensure optimal rework quality and reliability.

Technical Support includes comprehensive guidance on installation, calibration, and operation of the station. We offer detailed user manuals, troubleshooting documentation, and software updates to keep your equipment running smoothly. Our support team is equipped to assist with diagnosing issues, optimizing rework profiles, and enhancing process parameters for various BGA package types.

Services available for the Fully Automatic BGA Rework Station encompass routine maintenance, calibration verification, and hardware upgrades. Preventive maintenance programs help extend the lifespan of your system and maintain peak performance. Additionally, we provide training sessions to empower your operators with best practices and advanced techniques for BGA rework.

We are committed to ensuring that your BGA rework operations are efficient, accurate, and reliable through dedicated technical support and professional service offerings tailored to your specific application needs.

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 foam-molded protective casing within a sturdy, double-walled cardboard box to prevent any damage during transit.

All accessories and components are individually packed and clearly labeled for easy identification and setup. The packaging also includes a detailed user manual and necessary calibration tools.

For shipping, we use reliable courier services with tracking options to guarantee timely and safe delivery. International shipments are handled with appropriate customs documentation to avoid any delays.

We recommend inspecting the package immediately upon receipt and reporting any damage or missing parts within 48 hours to ensure prompt resolution.

FAQ:

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

A1: The Fully Automatic BGA Rework Station is branded WDS, and the model number is WDS1800.

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

A2: The WDS1800 is manufactured in China.

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

A3: The WDS1800 is designed to handle BGA, QFN, QFP, and other surface mount components for rework and repair.

Q4: Is the WDS1800 fully automatic or does it require manual operation?

A4: The WDS1800 is a fully automatic BGA rework station, which means it automates the heating, soldering, and placement processes to

improve precision and efficiency.

Q5: What are the key features of the WDS1800 BGA Rework Station?

A5: Key features of the WDS1800 include precise temperature control, automatic alignment, programmable heating profiles, and a user-friendly interface for easy operation.



Shenzhen Wisdomshow Technology Co.,Ltd



+86 18926538696



elysia.li@wdsbga.cn



bgaxraymachine.com

No.6,Haosi Western Industry,Shangjing Town,Bao'an District,Shenzhen,China