



Shenzhen Wisdomshow Technology Co.,Ltd

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Fully Automatic BGA Rework Station with 12000W Power, ± 0.01 mm SMT Precision, and Mini PCB Size 10x10mm for Precise Component Handling

Our Product Introduction

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Basic Information

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

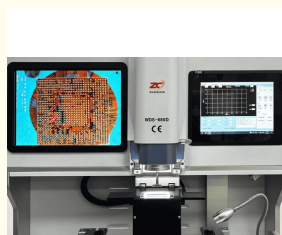
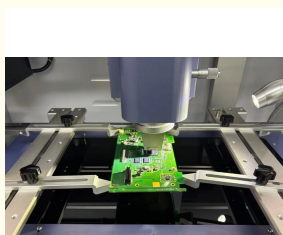


Product Specification

- Bottom Heater Power: Max 8000W
- Pcb Position Mode: V Type Card Slot+universal Fixture
- Power: 12000W
- Power Supply: Ac380v $\pm 10\%$ 50/60hz
- Weight: About 580KG
- Max Pcb Size: 640*490mm
- Feeding Device: Fully Automatic
- Smt Precision: ± 0.01 mm
- Highlight: Mini PCB automatic feeding device,
10x10mm XYZ movable assembly tool,
Fully automatic BGA component handler



More Images



Product Description:

The Fully Automatic BGA Rework Station is an advanced and highly efficient solution designed for professionals in the electronics manufacturing and repair industry. This state-of-the-art machine excels in automatic soldering, providing precise and reliable rework capabilities for Ball Grid Array (BGA) components. Whether you are dealing with small-scale repairs or large BGA rework tasks, this reballing machine offers the perfect blend of power, accuracy, and ease of use to meet your demanding requirements.

One of the standout features of this BGA rework station is its Windows-based software control system. The intuitive software interface enables operators to program and monitor the entire rework process with ease, ensuring consistent results and minimizing human error. The Windows platform compatibility also allows for seamless integration with existing workflows and facilitates easy updates and customization of rework profiles tailored to specific PCB types and component sizes.

Designed to accommodate a wide range of PCB thicknesses, this rework station supports boards from as thin as 0.8mm up to a robust 8mm. This flexibility makes it suitable for diverse applications, from delicate miniaturized circuit boards to thicker, more complex assemblies. Additionally, the machine is capable of handling mini PCB sizes starting from just 10 by 10 millimeters, enabling precise rework of small and densely packed electronic components without compromising on control or accuracy.

In terms of heating capabilities, the station is equipped with a powerful upper heater delivering a maximum power output of 1200W. This high wattage ensures rapid and uniform heating of BGA components, which is critical for effective solder melting and reflow processes. The even heat distribution minimizes thermal stress on sensitive components and substrates, reducing the risk of damage during rework. This makes the station ideal for both delicate repairs and large-scale production environments where efficiency and quality are paramount.

Weighing approximately 580 kilograms, the Fully Automatic BGA Rework Station is a heavy-duty piece of equipment built for stability and durability. Its substantial weight contributes to steady operation, reducing vibrations and movement during the soldering and reballing processes. This stability is crucial for maintaining high precision and repeatability, especially when working with large BGA rework tasks that require meticulous attention to detail.

As a comprehensive reballing machine, this BGA rework station streamlines the process of removing, repairing, and replacing BGA components on printed circuit boards. It automates critical steps, significantly reducing manual labor and the risk of human error while enhancing throughput and quality. The machine's advanced features enable it to handle complex rework projects efficiently, making it an indispensable tool for electronics repair centers, manufacturing lines, and research and development laboratories.

In summary, the Fully Automatic BGA Rework Station combines cutting-edge technology with robust engineering to deliver an unparalleled rework experience. Its Windows-based software control, wide PCB thickness compatibility, powerful upper heater, and ability to handle mini PCBs and large BGA rework projects make it a versatile and reliable choice for professionals seeking precision and efficiency. Whether you need to perform automatic soldering or utilize it as a reballing machine, this BGA rework station stands out as a top-tier solution engineered to meet the rigorous demands of modern electronics manufacturing and repair.

Features:

- Product Name: Fully Automatic BGA Rework Station
- Bottom Heater Power: Max 8000W
- Total Power: 12000W
- Machine Weight: Approximately 580kg
- Feeding Device: Fully Automatic
- Equipped with a large size touch screen for easy operation
- Designed for industry computer applications
- High-performance soldering station for precise BGA rework

Technical Parameters:

Upper Heater Power	Max 1200W
Vision Alignment	Automatic Alignment
PCB Position Mode	V Type Card Slot + Universal Fixture
Mini PCB Size	10*10mm
SMT Precision	±0.01mm
Feeding Device	Fully Automatic
Power Supply	AC380V ±10%, 50/60Hz
Bottom Heater Power	Max 8000W
Power	12000W
PCB Thickness	0.8mm - 8mm

Applications:

The WDS WDS1800 Fully Automatic BGA Rework Station, originating from China, is an advanced and reliable solution designed specifically for professional electronic manufacturing plants. This high-performance rework station is ideal for various product application occasions and scenarios where precision and efficiency are paramount. Equipped with a powerful power supply of AC380V ±10%,

50/60Hz, it ensures stable operation under demanding industrial conditions.

One of the standout features of the WDS1800 is its X/Y/Z moveable platform, which allows for precise positioning and alignment of the PCB during the rework process. This capability makes it exceptionally suitable for handling complex and delicate BGA components on large PCBs, with a maximum size capacity of 640*490mm. The station's PCB position mode employs a V Type Card Slot combined with a universal fixture, providing versatility and secure holding of various board sizes and shapes.

Automatic soldering is at the core of the WDS1800's functionality, streamlining the rework process by reducing manual intervention and enhancing consistency in solder joints. The upper heater delivers a maximum power of 1200W, while the bottom heater can reach up to 8000W, enabling rapid and uniform heating for effective solder melting and component removal or placement. This makes the WDS1800 particularly suitable for scenarios involving mass production lines, repair shops, and quality control departments within electronic manufacturing plants.

In addition to its technical capabilities, the WDS WDS1800 is designed to optimize workflow in industrial environments. Its fully automatic operation reduces labor costs and minimizes human error, increasing overall productivity. The system is well-suited for reworking high-density BGA packages, complex multilayer PCBs, and other surface-mount devices commonly found in modern electronic products.

Overall, the WDS1800 Fully Automatic BGA Rework Station is a vital tool for plants requiring precise, efficient, and reliable soldering and rework solutions. Whether used for prototyping, small batch production, or large-scale manufacturing, its advanced features and robust design ensure optimal performance in various application occasions and scenarios.

Support and Services:

Our Fully Automatic BGA Rework Station is designed to provide precise and reliable soldering and desoldering of Ball Grid Array (BGA) components on printed circuit boards (PCBs). Engineered with advanced infrared heating and automatic alignment technology, this station ensures efficient and damage-free rework processes suitable for both prototyping and production environments.

The system features programmable temperature profiles, a high-resolution camera for accurate component placement, and an intuitive user interface for easy operation. Its automatic nozzle changer and vacuum pickup tools enhance the flexibility and speed of component handling.

We offer comprehensive technical support including installation guidance, operational training, and maintenance services to maximize the performance and lifespan of your BGA rework station. Our support team is committed to assisting with troubleshooting, software updates, and hardware calibration to ensure optimal results.

Additionally, we provide detailed user manuals, video tutorials, and application notes to help users fully leverage the capabilities of the station. Spare parts and consumables are readily available to minimize downtime and maintain consistent rework quality.

Our goal is to deliver a seamless experience that empowers electronics manufacturers and repair technicians to achieve high-precision BGA rework with confidence and efficiency.

Packing and Shipping:

Product Packaging and Shipping for Fully Automatic BGA Rework Station

The Fully Automatic BGA Rework Station is carefully packaged to ensure safe delivery and maintain product integrity during transit. Each unit is securely placed in a custom-fitted foam insert within a sturdy, double-walled cardboard box to protect against shocks and vibrations. The packaging also includes anti-static bags to prevent electrostatic discharge damage to sensitive components.

Additional accessories, user manuals, and necessary tools are neatly organized and included within the package to provide a complete setup experience upon arrival.

For shipping, we offer multiple options including air freight, sea freight, and express courier services to accommodate various delivery needs and timelines. All shipments are tracked with a reliable tracking system to provide real-time updates until the product reaches the customer.

Special care is taken to comply with international shipping regulations and customs requirements to ensure a smooth delivery process worldwide.

FAQ:

Q1: What brand manufactures the Fully Automatic BGA Rework Station model WDS1800?

A1: The Fully Automatic BGA Rework Station model WDS1800 is manufactured by the brand WDS.

Q2: Where is the WDS1800 BGA Rework Station made?

A2: The WDS1800 BGA Rework Station 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, and other surface-mount components for rework and repair.

Q4: Is the WDS1800 Fully Automatic BGA Rework Station easy to operate for beginners?

A4: Yes, the WDS1800 features a user-friendly interface and automated processes that make it suitable for both beginners and experienced technicians.

Q5: What is the power supply requirement for the WDS1800 BGA Rework Station?

A5: The WDS1800 operates on a standard power supply of 220V, 50Hz, typical for equipment manufactured in China.



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