



Shenzhen Wisdomshow Technology Co.,Ltd
bgaxraymachine.com

Fully Automatic BGA Rework Station with 640*490mm Max PCB Size, Windows Based Software Control, and ± 0.01 mm SMT Precision

Our Product Introduction

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Basic Information

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

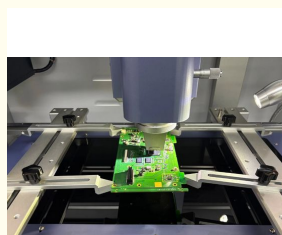
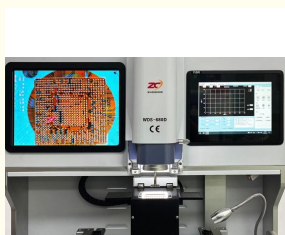


Product Specification

- Software Control: Windows Based
- Feeding Device: Fully Automatic
- Voltage: 220/110V
- Pcb Thickness: 0.8mm - 8mm
- Pcb Position Mode: V Type Card Slot+universal Fixture
- Power Supply: AC380V $\pm 10\%$ 50/60Hz
- Machine Weight: 580kg
- Weight: About 580KG
- Highlight: V Type Card Slot BGA Rework Station,
Fully Automatic BGA Rework Station with
640*490mm PCB
, Universal BGA Rework Station AC380V 50Hz



More Images



Product Description:

The Fully Automatic BGA Rework Station is a state-of-the-art solution designed to meet the demanding needs of modern electronics manufacturing and repair. Engineered with precision and reliability in mind, this advanced rework station is ideal for handling large BGA rework tasks with exceptional accuracy and efficiency. Whether you are involved in prototyping, small batch production, or large-scale industrial applications, this machine offers a robust platform to ensure your BGA components are reworked flawlessly every time. One of the standout features of this rework station is its powerful upper heater, which delivers a maximum power output of 1200W. This high power capacity enables rapid and uniform heating of BGA components, ensuring optimal solder reflow and minimizing the risk of thermal damage. The ability to maintain accurate temperature control is critical in BGA rework processes, and this machine excels in delivering consistent, industry-grade temperature profiles tailored to the specific requirements of various solder materials and component sizes. Powering the unit is a stable and reliable AC380V $\pm 10\%$ power supply operating at 50/60Hz, which guarantees consistent performance across different industrial settings worldwide. This compatibility with standard industrial power supplies enhances the machine's versatility and makes it suitable for deployment in diverse manufacturing environments. Despite its powerful heating capabilities, the station maintains energy efficiency and safety, ensuring a secure working environment for operators. Precision is a key factor in successful BGA rework, and this station boasts SMT precision levels of $\pm 0.01\text{mm}$. Such high precision ensures that components are positioned and reflowed with meticulous accuracy, which is essential for maintaining the integrity of densely packed circuit boards. The station's advanced vision alignment system automatically detects and aligns BGA components with pinpoint accuracy, significantly reducing the margin of error and increasing throughput by minimizing manual intervention and setup time. The automatic alignment feature is a testament to the machine's intelligence and ease of use. By integrating a sophisticated vision system, the machine can quickly identify the exact position of components, allowing operators to focus on other critical aspects of the rework process. This level of automation not only improves productivity but also enhances the quality and repeatability of the rework process, making it an indispensable asset in any electronics repair or manufacturing facility. Despite its powerful capabilities and advanced technology, the machine is designed to be robust and stable, weighing in at 580kg. This substantial weight contributes to its stability during operation, reducing vibrations and ensuring consistent performance. The solid construction also reflects its suitability for heavy-duty industrial use, offering durability and long service life even under continuous operation. In summary, the Fully Automatic BGA Rework Station combines large BGA rework capabilities with industry-grade features such as accurate temperature control, automatic vision alignment, and exceptional SMT precision. It is a comprehensive solution tailored to meet the stringent demands of modern electronics manufacturing and repair. With its powerful upper heater, reliable power supply, and robust construction, this machine is poised to deliver superior performance, boost productivity, and ensure the highest quality standards in BGA rework operations.

Features:

- Product Name: Fully Automatic BGA Rework Station
- Mini PCB Size: 10*10mm
- Max PCB Size: 640*490mm
- Weight: About 580KG
- Power Supply: AC 380V $\pm 10\%$, 50/60Hz
- Feeding Device: Fully Automatic
- Equipped with an HD monitor for precise operation
- Designed with industry degrees for high-precision soldering tasks
- Advanced soldering station functionality for reliable BGA rework

Technical Parameters:

Mini PCB Size	10*10mm
Power	12000W
Software Control	Windows Based
SMT Precision	$\pm 0.01\text{mm}$
Voltage	220/110V
Feeding Device	Fully Automatic
Upper Heater Power	Max 1200W
Machine Weight	580kg
Power Supply	AC380V $\pm 10\%$, 50/60Hz
PCB Position Mode	V Type Card Slot + Universal Fixture

This Fully Automatic BGA Rework Station is designed for manufacture and industry computer applications, suitable for plant environments requiring high precision and efficiency.

Applications:

The WDS Fully Automatic BGA Rework Station, model WDS1800, originating from China, is an advanced piece of equipment designed for precision and efficiency in the electronics manufacturing and repair industries. Weighing approximately 580KG, this robust machine is engineered to handle a wide range of BGA (Ball Grid Array) components with ease, making it an indispensable tool for professionals dealing with complex circuit boards.

This rework station is particularly suited for industry-grade applications where automatic soldering precision is crucial. Its fully automatic feeding device ensures consistent and accurate placement of components, significantly reducing the risk of human error and increasing overall productivity. The WDS1800 supports mini PCB sizes as small as 10*10mm, which makes it highly versatile for various electronic assemblies, from small-scale prototypes to large-scale production runs.

One of the standout features of the WDS1800 is its Windows-based software control system. This user-friendly interface allows technicians to program and monitor rework processes with great accuracy, ensuring optimal thermal profiles and soldering parameters are maintained throughout the operation. The software control also enables easy integration with existing production workflows, facilitating seamless automation in modern manufacturing environments.

The PCB positioning mode of the WDS1800 combines a V type card slot with a universal fixture, providing stable and precise alignment of circuit boards during the rework process. This feature is essential for achieving high-quality solder joints, especially when working with delicate BGA components where alignment errors can lead to costly defects.

Typical application occasions for the WDS Fully Automatic BGA Rework Station include electronics repair centers, manufacturing lines for consumer electronics, telecommunications equipment assembly, and automotive electronic systems production. It is equally effective in research and development laboratories where prototype testing and modifications are frequent. Its ability to perform automatic soldering with high repeatability makes it ideal for scenarios demanding consistent quality and efficiency.

In summary, the WDS1800 model from WDS is a powerful, reliable, and versatile BGA rework station designed to meet the rigorous demands of industry-grade electronic soldering tasks. Its fully automatic feeding device, combined with precise PCB positioning and advanced software control, ensures superior performance in a wide range of application scenarios involving BGA components.

Support and Services:

Our Fully Automatic BGA Rework Station is designed to provide precise and efficient soldering and desoldering of Ball Grid Array components. To ensure optimal performance and longevity of your equipment, please follow the recommended technical support and service guidelines.

Before using the station, carefully read the user manual and safety instructions. Make sure to operate the machine within the specified temperature and power limits to avoid damage.

Regular maintenance is crucial. Clean the heating elements and nozzles after each use to prevent residue buildup. Inspect all connections and cables periodically to ensure they are secure and undamaged.

Calibration of the temperature sensors and alignment mechanisms should be performed according to the maintenance schedule outlined in the manual. This ensures accurate temperature control and precise component placement.

If you experience any operational issues or abnormalities, power off the machine immediately and consult the troubleshooting section of the manual. Common problems such as heating failure or positioning errors often have simple solutions.

For software updates and technical documentation, please refer to the official resources provided with your product. Keeping your station's firmware up to date will improve functionality and add new features.

In case of hardware malfunctions beyond basic troubleshooting, professional repair services are recommended. Use only authorized service centers and genuine replacement parts to maintain warranty validity and device performance.

We are committed to supporting our customers with comprehensive technical assistance and service options to ensure your Fully Automatic BGA Rework Station operates at its best.

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 box inside a sturdy, double-walled carton to protect against shocks and vibrations during transit.

We include all necessary accessories, manuals, and installation guides neatly organized within the packaging to provide a convenient unboxing experience.

For shipping, we use reliable carriers with tracking options to guarantee timely and safe delivery. The product is insured against damage or loss during shipment for your peace of mind.

Whether shipped domestically or internationally, we take every precaution to ensure your Fully Automatic BGA Rework Station reaches you ready for immediate use.

FAQ:

Q1: What is the brand and model number of the 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: 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, QFP, CSP, and other surface-mounted components for rework and repair.

Q4: Is the WDS1800 easy to operate for beginners?

A4: Yes, the WDS1800 features a fully automatic operation system with a user-friendly interface, making it suitable for both beginners and experienced technicians.

Q5: Does the WDS1800 support precise temperature control?

A5: Yes, the WDS1800 offers precise temperature control to ensure safe and effective rework of sensitive electronic components.



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