



WDS-1800 580kg Machine Weight Fully Automatic BGA Rework Station with Windows Based Software Control and $\pm 0.01\text{mm}$ SMT Precision

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: WDS
- Model Number: WDS1800
- Minimum Order Quantity: 1
- Price: US \$59999-69999



Product Specification

- Pcb Position Mode: V Type Card Slot+universal Fixture
- Weight: About 580KG
- Machine Weight: 750kg
- Feeding Device: Fully Automatic
- Smt Precision: $\pm 0.01\text{mm}$
- Voltage: AC380V
- Upper Heater Power: Max 1200W
- Software Control: Windows Based
- Mounting Accuracy: $\pm 0.01\text{mm}$
- Mounting Pressure: $< 0.2\text{N}$
- Operationmode: Fully Automatic
- Solderingtime: Adjustable Soldering Time
- Top Heater Power: 1600W



Product Description:

The Fully Automatic BGA Rework Station is a state-of-the-art solution designed for precision and efficiency in the electronics manufacturing and repair industry. This advanced rework station is engineered to handle complex soldering tasks with ease, combining cutting-edge technology and user-friendly features to deliver exceptional performance. Ideal for both small-scale repairs and high-volume production, this full automatic rework station offers unparalleled accuracy and reliability, making it an essential tool for professionals who demand the highest quality in their work.

One of the standout features of this rework station is its mini PCB size capacity of 10*10mm, which allows it to accommodate and efficiently process small circuit boards without compromising on precision. This makes it particularly suitable for modern electronics where miniaturization is key, and components are increasingly compact. Despite its ability to handle such small PCBs, the machine maintains robust performance standards, ensuring that every soldering task is executed flawlessly.

The vision alignment system incorporated into this BGA rework station is fully automatic, providing seamless and highly accurate positioning of components before soldering. Automatic alignment is critical in rework processes as it minimizes human error, increases throughput, and enhances the overall quality of the solder joints. This vision alignment capability ensures that even the most delicate and densely packed BGA components are perfectly aligned, reducing the risk of defects and improving the durability of the final product.

Weighing about 580KG, the Fully Automatic BGA Rework Station is a substantial and stable piece of equipment, reflecting its industrial-grade build quality. The solid construction not only ensures durability but also contributes to the precision of the soldering process by minimizing vibrations and movements during operation. This weight and stability are crucial for maintaining consistent results, especially when dealing with sensitive electronic components that require exact thermal profiles and positioning.

The feeding device of this rework station is fully automatic, streamlining the workflow and significantly reducing manual intervention. This automation enhances productivity by enabling continuous operation, which is particularly beneficial in environments where speed and efficiency are paramount. The automatic feeding system works in harmony with the other components of the station to provide a smooth, integrated process from component placement to final soldering, thereby minimizing downtime and maximizing output.

Control and operation of the rework station are powered by a Windows-based software platform, which offers an intuitive and familiar interface for users. This software control enhances usability by providing easy access to a wide range of programmable functions, customizable settings, and real-time monitoring capabilities. The Windows-based system ensures compatibility with a variety of external devices and software updates, making it a versatile and future-proof solution for continuous improvement and adaptation to new soldering technologies.

In addition to these features, the Fully Automatic BGA Rework Station excels in automatic soldering processes. Its ability to perform precise and consistent soldering without the need for constant human oversight reduces the risk of errors and rework, ultimately saving time and costs. The station supports complex soldering profiles tailored to specific components, ensuring optimal heat distribution and solder flow. This automatic soldering function is vital for achieving high-quality solder joints that meet stringent industry standards.

Overall, the Fully Automatic BGA Rework Station is a comprehensive and sophisticated tool designed to meet the demands of modern electronics assembly and repair. Its combination of mini PCB handling, automatic vision alignment, robust build, fully automatic feeding, and Windows-based software control positions it as a leader in the field of rework stations. Whether used in a high-tech manufacturing facility or a specialized repair workshop, this full automatic rework station delivers precision, efficiency, and reliability, making it an indispensable asset for any professional engaged in BGA rework and automatic soldering tasks.

Features:

- Product Name: Fully Automatic BGA Rework Station
- Power: 12000W for efficient and powerful operation
- Upper Heater Power: Max 1200W to ensure precise heating control
- Power Supply: AC 380V ±10%, 50/60Hz for stable performance
- Weight: About 580KG, providing a robust and durable build
- Machine Weight: 580kg, ensuring stability during rework processes
- Equipped with a large size touch screen for easy and intuitive operation
- Designed as a high-performance rework station suitable for various applications
- Capable of handling large BGA rework tasks with accuracy and efficiency

Technical Parameters:

Power Supply	AC 380V ±10%, 50/60Hz
Power	12000W
Bottom Heater Power	Max 8000W
PCB Thickness	0.8mm - 8mm
PCB Position Mode	V Type Card Slot + Universal Fixture
Vision Alignment	Automatic Alignment
SMT Precision	±0.01mm
Minimum PCB Size	10 × 10mm
Voltage	220/110V
Upper Heater Power	Max 1200W

This Fully Automatic BGA Rework Station utilizes advanced technology to deliver precise and efficient automatic soldering, making it an

essential tool for modern electronics repair and manufacturing.

Applications:

The WDS1800 Fully Automatic BGA Rework Station, manufactured by WDS in China, is an advanced solution designed for precision and efficiency in the electronics manufacturing industry. With its powerful 12000W heating system and a robust machine weight of 580kg, this station ensures stable operation and precise temperature control, essential for high-quality BGA rework processes. Its fully automatic feeding device streamlines the workflow, making it ideal for handling complex and large BGA components with exceptional accuracy. This rework station is particularly suited for industry degrees applications where reliability and precision are paramount. It supports a wide range of PCB thicknesses from 0.8mm to 8mm, accommodating various circuit board specifications commonly encountered in industrial settings. Additionally, the minimum PCB size capability of 10*10mm allows it to handle small to large-scale production tasks, offering versatility across different manufacturing requirements.

In large BGA rework scenarios, the WDS1800 excels by providing consistent and uniform heat distribution, which is critical for reballing, repairing, or replacing BGA chips without damaging the PCB or other components. Its fully automatic feeding device enhances operational efficiency, reducing manual handling and the risk of errors, which is crucial in high-volume production environments. This feature makes it an indispensable tool for industries that demand high throughput and stringent quality control.

The station's adaptability to various PCB thicknesses and its capability to manage industry degrees level tasks make it a valuable asset in sectors such as telecommunications, automotive electronics, aerospace, and consumer electronics. Whether used for prototyping, repair, or mass production, the WDS1800 ensures precise rework performance, meeting the rigorous standards required in modern electronic manufacturing.

Overall, the WDS1800 Fully Automatic BGA Rework Station by WDS is an excellent choice for businesses looking to improve their rework efficiency and quality in industry degrees applications. Its combination of high power, automatic feeding, and broad PCB compatibility makes it a reliable partner for large BGA rework and other demanding electronic repair and manufacturing scenarios.

Customization:

Introducing the WDS1800 Fully Automatic BGA Rework Station by WDS, a leading brand from CHINA designed to enhance your soldering process with precision and efficiency. This advanced soldering station features a fully automatic feeding device, capable of handling PCB sizes up to 640*490mm, making it ideal for various industrial applications.

Equipped with automatic alignment vision technology, the WDS1800 ensures accurate positioning for seamless automatic soldering and reballing machine operations. The upper heater power reaches a maximum of 1200W, providing consistent and reliable heating performance for effective BGA rework.

Weighing 580kg, this robust rework station combines durability with high-end functionality, delivering exceptional results in soldering and reballing tasks. Customize your product to meet specific requirements and experience the efficiency of an automatic soldering and reballing machine integrated into one comprehensive soldering station.

Support and Services:

The Fully Automatic BGA Rework Station is designed to provide precise and efficient repair solutions for Ball Grid Array components. Our technical support team is dedicated to helping you maximize the performance and reliability of your equipment.

Technical support includes assistance with installation, operation, troubleshooting, and maintenance of the BGA Rework Station. We offer detailed user manuals, video tutorials, and software updates to ensure your system remains up-to-date and fully functional.

Our services encompass calibration, repair, and replacement of parts to maintain optimal accuracy and performance. We also provide training sessions to help operators become proficient in using the station's features and advanced functions.

For complex issues, our experienced technicians are available to guide you through diagnostic procedures and recommend the best solutions to minimize downtime and improve repair quality.

Regular maintenance services are recommended to extend the lifespan of your BGA Rework Station. This includes cleaning, inspection, and component testing to prevent potential failures.

We are committed to delivering timely and effective support to ensure your BGA rework operations run smoothly and efficiently.

Packing and Shipping:

Product Packaging:

The Fully Automatic BGA Rework Station is carefully packaged to ensure it arrives in perfect condition. It is secured within a sturdy, high-quality cardboard box with custom foam inserts to protect the delicate components during transit. The packaging includes all necessary accessories, a user manual, and warranty information. Each unit is labeled with handling instructions and product details for easy identification.

Shipping:

We offer reliable and secure shipping options worldwide. The Fully Automatic BGA Rework Station is shipped via reputable courier services with tracking available for every order. Shipping times vary depending on the destination but typically range from 3 to 10 business days. We also provide insurance options to safeguard your purchase against any damage or loss during shipping. For bulk orders or special delivery requirements, please contact our sales team for customized solutions.

FAQ:

Q1: What is the brand and model number of this 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: It is manufactured in China.

Q3: Is the WDS1800 suitable for repairing all types of BGA components?

A3: Yes, the WDS1800 is designed to handle a wide range of BGA components, making it suitable for various repair applications.

Q4: What are the key features of the WDS1800 BGA Rework Station?

A4: The WDS1800 features fully automatic operation, precise temperature control, an easy-to-use interface, and reliable performance for effective BGA rework.

Q5: Can the WDS1800 be used for both soldering and desoldering BGA chips?

A5: Yes, the WDS1800 supports both soldering and desoldering processes, providing efficient and accurate BGA rework capabilities.



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