



Semi Automatic BGA Rework Station with $\pm 0.01\text{mm}$ Mounting Accuracy Three Independent Heating Zones and High-definition Touchscreen HMI

Our Product Introduction

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Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-620
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200



Product Specification

- Mounting Accuracy: $\pm 0.01\text{mm}$
- Packaging Type: Wooden Box
- Heating Zones: Three Independent Heating Zones
- Min Chip Space: 0.15mm
- Dimensions: L605 x W655 x H710 Mm
- Touch Screen: High-definition Touchscreen HMI
- Machine Weight: Net Weight 55 Kg
- Characteristic: Independent Three-zone Control, Displays 4 Temperature Curves Simultaneously, Stores Multiple User Data Sets, Real-time Curve Analysis; Fan Speed Saved With Temperature Curve; Gear Rack Drives Upper Heating Head For Durability
- Highlight: **BGA rework station with IR preheating,**

Product Description:

The Semi Automatic BGA Rework Station is a high-precision, advanced solution designed for the efficient and reliable repair and rework of Ball Grid Array (BGA) components. Engineered with cutting-edge technology, this BGA rework station combines superior functionality with user-friendly features to deliver exceptional performance for electronics repair professionals and manufacturing environments. One of the standout features of this semi-automatic BGA rework station is its optical alignment system. This system ensures unparalleled accuracy in positioning BGA components during the rework process, significantly reducing the risk of misalignment and improving the overall quality of repairs. With a mounting accuracy of $\pm 0.01\text{mm}$, the station guarantees precise alignment, which is critical for the delicate nature of BGA components and the increasingly fine pitch requirements of modern electronic assemblies. Powering the station is a reliable AC power supply of $220\text{V} \pm 10\%$, operating at a frequency of 50/60Hz. This specification ensures stable and consistent power delivery, supporting the station's advanced heating elements and control systems. The power supply compatibility also makes it suitable for use in various regions, providing flexibility for global users. The design includes three independent heating zones, an essential feature that allows users to control the temperature of different areas of the PCB and component independently. This capability is vital when working with complex assemblies where different materials and components require varied heating profiles. The independent heating zones optimize the thermal management during the rework process, minimizing thermal stress and preventing damage to surrounding components. Central to the thermal management system is the Infrared preheating table. This component gently and uniformly preheats the PCB before the actual rework process begins, reducing thermal shock and enhancing solder joint quality. Infrared technology ensures even heat distribution, which is crucial for avoiding warping or damage to sensitive circuit boards. The preheating table's efficiency significantly improves the success rate of BGA rework operations, making it an indispensable part of the station. The station is equipped with a high-definition touchscreen Human-Machine Interface (HMI), providing an intuitive and interactive user experience. This advanced touchscreen interface allows operators to easily set parameters, monitor the rework process in real time, and adjust heating profiles with precision. The high-definition display ensures clear visibility of all controls and status indicators, facilitating swift operation and reducing the learning curve for new users. Measuring $L605 \times W655 \times H710$ mm, the Semi Automatic BGA Rework Station is compact yet robust, making it suitable for various workshop environments without occupying excessive space. Its ergonomic design ensures ease of access to all functional areas, promoting efficient workflow and operator comfort during prolonged use. In summary, this Semi Automatic BGA Rework Station offers a comprehensive solution for BGA component repair with features that include a high-precision optical alignment system, three independent heating zones, and an infrared preheating table. Powered by a stable AC 220V supply and controlled through a high-definition touchscreen HMI, it delivers accuracy, reliability, and ease of use. Its precise mounting accuracy of $\pm 0.01\text{mm}$ and thoughtfully engineered dimensions make it an ideal choice for technicians seeking to enhance their repair quality and operational efficiency. Whether used in research and development, production, or repair workshops, this station stands out as a premier tool for advanced BGA rework applications.

Features:

- Product Name: Semi Automatic BGA Rework Station
- Mounting Accuracy: $\pm 0.01\text{mm}$ for precise component placement
- Heating Body: Upper and lower hot air heating combined with bottom IR preheating
- Heating Zones: Three independent heating zones for efficient temperature control
- Packaging Type: Durable wooden box for safe transportation and storage
- Type: BGA Rework Station designed for semi automatic operation
- Ideal for CPU repair with advanced hot air heating technology
- Semi automatic functionality enhances ease of use and efficiency

Technical Parameters:

Characteristic	Independent Three-zone Control, Displays 4 Temperature Curves Simultaneously, Stores Multiple User Data Sets, Real-time Curve Analysis; Fan Speed Saved With Temperature Curve; Gear Rack Drives Upper Heating Head For Durability
Touch Screen	High-definition Touchscreen HMI
Min Chip Space	0.15mm
Dimensions	L605 x W655 x H710 Mm
Type	BGA Rework Station with optical alignment system
Power Supply AC	AC 220v $\pm 10\%$ 50/60hz
Mounting Accuracy	$\pm 0.01\text{mm}$

Temp Measuring Interface	1 Pc
Heating Zones	Three Independent Heating Zones
Heating Body	Upper/lower Hot Air Heating + Bottom IR Preheating Infrared preheating table for efficient cpu repair

Applications:

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an advanced tool designed specifically for precision motherboard repair and component rework. Equipped with three independent heating zones, this rework station ensures uniform heat distribution, which is essential for delicate soldering and desoldering tasks on motherboards and other electronic components. The three heating zones allow technicians to precisely control the temperature applied to different areas of the workpiece, minimizing the risk of damage and improving the overall quality of repair.

This rework station is ideal for a variety of application occasions and scenarios, particularly in electronics manufacturing, repair centers, and R&D labs. It is widely used for repairing and reworking BGA chips, IC chips, and other surface-mounted devices on motherboards. Whether you are working on smartphones, laptops, gaming consoles, or other electronic devices, the Wisdomshow WDS-620's high mounting accuracy of ± 0.01 mm guarantees precise alignment, ensuring effective soldering and long-lasting repairs.

Thanks to its robust design and CE certification, this product meets international safety and quality standards, making it reliable for continuous professional use. The station's dimensions (L605 × W655 × H710 mm) and wooden packaging box provide secure transportation and easy installation in various work environments. Its power supply of AC 220v $\pm 10\%$, 50/60Hz, makes it compatible with standard electrical outlets in many regions, especially in China where it is manufactured.

With a minimum order quantity of just one unit and a supply ability of 200 units, the Wisdomshow WDS-620 is accessible for both small workshops and larger repair facilities. The delivery time of 3-5 days ensures quick availability, while payment terms such as TT make the purchasing process straightforward. The semi-automatic operation combined with three heating zones enhances efficiency and precision, making this rework station a crucial asset for any professional involved in motherboard repair and electronic component rework.



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