



Semi Automatic BGA Rework Station with ± 0.01 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

- Heating Zones: Three Independent Heating Zones
- Touch Screen: High-definition Touchscreen HMI
- Working Modes: 5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
- Heating Body: Upper/lower Hot Air Heating + Bottom IR Preheating
- 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
- Type: BGA Rework Station
- Machine Weight: Net Weight 55 Kg
- Min Chip Space: 0.15mm



More Images



Product Description:

The Semi Automatic BGA Rework Station is a state-of-the-art solution designed for precision and efficiency in the delicate process of BGA (Ball Grid Array) component repair and rework. Engineered with advanced features and robust construction, this BGA Rework Station is ideal for electronics manufacturers, repair shops, and R&D laboratories that demand high accuracy and reliability.

One of the standout features of this Semi Automatic BGA Rework Station is its exceptional mounting accuracy of $\pm 0.01\text{mm}$. This high level of precision ensures that even the smallest components, with a minimum chip space of just 0.15mm , can be accurately positioned and reworked without any risk of misalignment or damage. The station's optical alignment system further enhances this precision by providing clear, real-time visual guidance to the operator, making the process more intuitive and reducing the chance of human error. The machine is equipped with an infrared preheating table, which is crucial for evenly heating the PCB and components before rework. This infrared preheating helps to prevent thermal shock and warping, ensuring the integrity of sensitive electronic parts during the soldering and desoldering process. The independent three-zone control system allows operators to set and maintain different temperatures for the preheating table, upper heating head, and other zones independently. This flexibility ensures optimal temperature management tailored to the specific requirements of different components and boards.

Temperature management is further enhanced by the station's ability to display four temperature curves simultaneously. This feature provides comprehensive real-time monitoring of temperature profiles, allowing operators to analyze and adjust heating parameters dynamically for perfect rework results. Additionally, the system stores multiple user data sets, enabling quick recall of preferred temperature profiles and settings for various types of components and boards. This storage capability improves workflow efficiency and consistency across different jobs.

The temperature measuring interface integrated into the station allows for accurate temperature readings and feedback, contributing to precise control of the heating process. The fan speed is intelligently saved along with the temperature curve, ensuring that cooling is perfectly synchronized with heating for optimal component protection and solder joint quality. This integration of temperature and airflow control results in smoother thermal cycles and reduces the risk of overheating or insufficient heating.

Durability and ease of use are also key considerations in the design of this BGA Rework Station. The upper heating head is driven by a gear rack mechanism, which provides stable, smooth, and reliable vertical movement. This mechanical advantage ensures long-lasting performance and reduces maintenance needs, even under frequent and heavy use.

In summary, the Semi Automatic BGA Rework Station offers a comprehensive and technologically advanced solution for precision BGA repair and rework. Its combination of an infrared preheating table, optical alignment system, and independent three-zone temperature control makes it an indispensable tool for professionals who require exacting standards in electronic component repair. With features like multiple temperature curve displays, real-time curve analysis, and user data storage, this station not only improves accuracy but also enhances efficiency and repeatability in the rework process.

Whether you are dealing with high-density PCBs or delicate BGA chips with minimal spacing, this Semi Automatic BGA Rework Station provides the precision, control, and durability needed to achieve superior results every time. It is a smart investment for anyone looking to elevate their electronics rework capabilities to the next level.

Features:

Product Name: Semi Automatic BGA Rework Station

Machine Weight: Net Weight 55 Kg

Mounting Accuracy: $\pm 0.01\text{mm}$

Temperature Measuring Interface: 1 Pc

Heating Body: Upper/lower hot air heating + Bottom IR preheating

Features three heating zones for precise temperature control

Minimum Chip Space: 0.15mm

Equipped with advanced hot air heating technology

Ideal BGA rework station for accurate and efficient soldering

Technical Parameters:

Type	BGA Rework Station
Dimensions	L605 × W655 × H710 Mm
Min Chip Space	0.15mm
Heating Zones	Three Independent Heating Zones (Infrared preheating table, three heating zone)
Temp Measuring Interface	1 Pc
Touch Screen	High-definition Touchscreen HMI
Power Supply AC	AC 220v $\pm 10\%$ 50/60Hz
Mounting Accuracy	$\pm 0.01\text{mm}$
Working Modes	5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
Packaging Type	Wooden Box

Applications:

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an advanced and reliable tool designed specifically for precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. This semi automatic BGA rework station is ideal for various application occasions and scenarios, ranging from professional electronics repair shops to manufacturing quality control departments and research and development laboratories.

Thanks to its integrated optical alignment system, the WDS-620 ensures highly accurate positioning with a mounting accuracy of ± 0.01 mm. This feature is crucial when working with delicate and densely packed BGA chips, allowing technicians to achieve flawless rework results with minimal risk of component damage. The optical alignment system simplifies the alignment process, making it accessible for both experienced and less experienced operators.

The Wisdomshow WDS-620 is equipped with upper and lower hot air heating combined with bottom infrared preheating, providing uniform and controlled heating to the components and PCB. This dual heating mechanism ensures efficient heat distribution, reducing thermal stress and preventing warping or damage to the circuit board during rework. Such precise temperature control is supported by a temperature measuring interface, allowing real-time monitoring and adjustment to meet various soldering requirements.

This semi automatic BGA rework station is perfectly suited for scenarios such as repairing damaged motherboards, graphics cards, and other electronic devices containing BGA chips. It is also widely used in prototype development and small to medium volume production lines where high precision and repeatability are essential. The device's CE certification guarantees compliance with relevant safety and quality standards, making it a trustworthy choice for professional use.

With a power supply requirement of AC 220V \pm 10%, 50/60Hz, the Wisdomshow WDS-620 offers compatibility with standard electrical systems, ensuring seamless integration into various work environments. The product is packaged securely in a wooden case for safe transportation and is available with a minimum order quantity of 1 unit. Additionally, the supply ability of 200 units and a swift delivery time of 3-5 days meet the urgent demands of customers worldwide. Payment terms are flexible, with TT accepted to facilitate smooth transactions.

In summary, the Wisdomshow WDS-620 Semi Automatic BGA Rework Station, featuring an optical alignment system and dual heating technology, is an indispensable tool for electronics professionals. Its precision, efficiency, and user-friendly design make it ideal for a wide range of application occasions and scenarios where high-quality BGA rework is required.

Support and Services:

The Semi Automatic BGA Rework Station is designed to provide precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. It features advanced temperature control, accurate positioning systems, and user-friendly operation, making it ideal for repairing and reworking PCBs in electronics manufacturing and repair.

Our technical support team is dedicated to helping you with installation, operation, and maintenance of the Semi Automatic BGA Rework Station. We provide detailed user manuals, troubleshooting guides, and instructional videos to ensure optimal use of the equipment.

Services include software updates, calibration assistance, and hardware repairs to maintain the station's performance and extend its operational life. We also offer training sessions to help users gain proficiency in handling complex rework tasks safely and efficiently.

For best results, it is recommended to use genuine replacement parts and consumables approved by the manufacturer. Regular maintenance checks and cleaning of the station's components will help prevent downtime and enhance reliability.

Our support team is committed to providing timely and effective solutions to any technical issues you may encounter, ensuring minimal disruption to your workflow and maximum productivity.

Packing and Shipping:

Product Packaging:

The Semi Automatic BGA Rework Station is carefully packaged to ensure safe delivery and protection during transit. It is securely placed in a custom-designed foam insert within a sturdy corrugated cardboard box. All accessories, including nozzles, power cables, and user manuals, are neatly organized and packed to prevent damage. The packaging is labeled with handling instructions and product details for easy identification.

Shipping:

We offer reliable shipping options to deliver the Semi Automatic BGA Rework Station safely to your location. The product is shipped via trusted courier services with tracking available. Standard shipping includes insured delivery to protect against loss or damage. Expedited shipping options are also available upon request. Please ensure the shipping address is accurate to avoid delays. International shipping is supported, with customs documentation provided as needed.

FAQ:

Q1: What is the brand and model number of this Semi Automatic BGA Rework Station?

A1: The brand is Wisdomshow and the model number is WDS-620.

Q2: Does this product have any certifications?

A2: Yes, the Semi Automatic BGA Rework Station WDS-620 is CE certified.

Q3: What is the minimum order quantity for this product?

A3: The minimum order quantity is 1 unit.

Q4: How is the product packaged for delivery?

A4: The product is securely packaged in a wooden case to ensure safe transportation.

Q5: What is the typical delivery time and payment terms for this product?

A5: The delivery time is typically 3-5 days, and the payment terms are via TT (Telegraphic Transfer).

Q6: What is the supply ability of the Semi Automatic BGA Rework Station WDS-620?

A6: The supply ability is 200 units per month.



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