



Semi Automatic BGA Rework Station with Independent Three-zone Control, High-definition Touchscreen HMI, and Real-time Curve Analysis

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

- Touch Screen: High-definition Touchscreen HMI
- 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
- Min Chip Space: 0.15mm
- Heating Body: Upper/lower Hot Air Heating + Bottom IR Preheating
- Machine Weight: Net Weight 55 Kg
- Working Modes: 5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
- Power Supply Ac: Ac 220v \pm 10% 50/60hz



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Product Description:

The Semi Automatic BGA Rework Station is an advanced and reliable solution designed for precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. This sophisticated equipment incorporates a combination of upper and lower hot air heating along with a bottom infrared (IR) preheating table, ensuring uniform and controlled temperature distribution throughout the rework process. The integration of hot air heating and the infrared preheating table significantly improves the quality of heat transfer, reducing thermal stress and enhancing the overall success rate of BGA repairs.

One of the standout features of this rework station is its independent three-zone temperature control system. This allows operators to monitor and adjust the temperature of the upper hot air heater, lower hot air heater, and the infrared preheating table separately, providing unparalleled precision during the reflow process. The machine is capable of displaying four temperature curves simultaneously, offering real-time insights into the heating profiles. This detailed temperature monitoring is crucial for optimizing the soldering process and avoiding component damage.

The machine also boasts a real-time curve analysis function, enabling technicians to evaluate the temperature trends and make necessary adjustments on the fly. Furthermore, the system can store multiple user data sets, allowing customized heating profiles to be saved and recalled easily for different types of BGA components or specific repair requirements. This feature drastically improves workflow efficiency and consistency across various rework tasks.

Durability and precision are further enhanced by the gear rack that drives the upper heating head. This mechanical design ensures smooth, stable, and precise vertical movements of the heating element, which is essential for maintaining consistent distance and heat application to the BGA chips. The gear rack mechanism contributes to the machine's long-lasting performance and reduces maintenance needs over time.

The Semi Automatic BGA Rework Station is equipped with an advanced optical alignment system. This system facilitates accurate positioning of BGA chips before the heating process begins, ensuring perfect alignment for successful soldering. The optical alignment system minimizes human error and enhances the overall precision of the rework operation, making it suitable for complex and fine-pitch BGA components.

The fan speed is intelligently saved alongside the temperature curves, allowing the cooling process to be finely tuned according to the specific thermal profile. This synchronized control over heating and cooling parameters helps in preventing thermal shock and ensures the integrity of sensitive electronic components.

In terms of physical specifications, the machine has a net weight of 55 kilograms, making it a robust and stable platform for reworking tasks. Its dimensions are L605 x W655 x H710 mm, providing a compact yet spacious working area that fits comfortably into most electronics repair workbenches. Despite its sturdy construction, the device maintains a user-friendly interface and ergonomic design, making it accessible for technicians of varying skill levels.

The Semi Automatic BGA Rework Station supports a minimum chip spacing of 0.15mm, which allows it to handle very fine-pitch components with precision. This capability is crucial for modern electronics manufacturing and repair, where component miniaturization is continually advancing.

Overall, this rework station combines hot air heating, an infrared preheating table, and an optical alignment system into a single, efficient unit designed to meet the demanding needs of BGA rework. Its advanced temperature control, real-time monitoring, durable construction, and user-centric features make it an indispensable tool for electronics repair professionals seeking accuracy, reliability, and high throughput in their BGA rework processes.

Features:

- Product Name: Semi Automatic BGA Rework Station
- Mounting Accuracy: ±0.01mm
- Temperature Measuring Interface: 1 Pc
- Power Supply AC: AC 220V ± 10%, 50/60Hz
- Type: BGA Rework Station
- Machine Weight: Net Weight 55 Kg
- Features hot air heating technology for efficient and precise soldering
- Equipped with three heating zones to ensure uniform temperature distribution
- Designed specifically as a BGA rework station for accurate component repair and replacement

Technical Parameters:

Type	BGA Rework Station
Power Supply AC	AC 220v ± 10%, 50/60Hz
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
Dimensions	L605 x W655 x H710 mm
Heating Body	Upper/lower Hot Air Heating + Bottom IR Preheating
Touch Screen	High-definition Touchscreen HMI

Working Modes	5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
Temp Measuring Interface	1 Pc
Heating Zones	Three Independent Heating Zones
Mounting Accuracy	±0.01mm

Applications:

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an advanced and reliable solution designed for precise motherboard repair and other high-precision electronic component tasks. Certified with CE, this machine ensures safety and quality compliance, making it ideal for professional repair shops, electronics manufacturing, and research laboratories. With a minimum order quantity of just 1 unit and a supply ability of 200 units, the WDS-620 can be quickly delivered within 3-5 days, packed securely in a wooden case to guarantee safe transportation.

This rework station is specifically engineered to facilitate various motherboard repair scenarios, featuring an optical alignment system that greatly enhances positioning accuracy during the rework process. The device's independent three-zone temperature control allows technicians to manage heat distribution effectively, reducing the risk of damage to sensitive components on the motherboard. The WDS-620's ability to display four temperature curves simultaneously and store multiple user data sets supports real-time curve analysis, offering detailed insights that are crucial for complex repair jobs.

Equipped with a versatile temperature measuring interface and five working modes—disassembly, soldering, placement, semi-automatic, and manual—the Wisdomshow WDS-620 adapts seamlessly to different repair requirements. The gear rack-driven upper heating head adds to its durability and precision, ensuring consistent performance over time. Weighing 55 kg and measuring L605 × W655 × H710 mm, this semi-automatic BGA rework station is robust yet manageable in most workshop environments.

In practical applications, this model excels in motherboard repair tasks that demand meticulous handling and precise temperature control. The optical alignment system streamlines the placement process, minimizing errors and improving rework efficiency. Whether you're repairing motherboards, replacing BGA chips, or performing delicate soldering tasks, the Wisdomshow WDS-620 offers a comprehensive solution that combines advanced technology with user-friendly features, making it a valuable asset for any electronics repair professional.

Support and Services:

Our Semi Automatic BGA Rework Station is designed to provide precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. To ensure optimal performance and longevity of the equipment, we offer comprehensive technical support and services. Technical support includes detailed guidance on installation, operation, and maintenance of the rework station. Our support team is equipped to assist with troubleshooting common issues, calibration procedures, and software updates to keep your equipment running smoothly.

We provide training resources and user manuals that cover all aspects of the rework process, ensuring that operators can achieve high-quality results with minimal downtime. Additionally, we offer repair and replacement services for parts and components to minimize interruptions in your workflow.

For customers requiring advanced assistance, we offer on-site support and customized service plans tailored to your specific operational needs. Our goal is to help you maximize the efficiency and reliability of your Semi Automatic BGA Rework Station.

Regular maintenance services, including cleaning, inspection, and parts replacement, are recommended to maintain the station's accuracy and performance. We also provide software upgrades to enhance functionality and add new features as they become available.

Packing and Shipping:

Product Packaging:

The Semi Automatic BGA Rework Station is carefully packed to ensure safe delivery and protection during transit. The product is enclosed in a sturdy, high-quality cardboard box with custom foam inserts to securely hold the equipment and its accessories in place. All components, including the main unit, heating elements, power cables, and user manual, are individually wrapped to prevent damage and scratches. The packaging is designed to withstand shocks, vibrations, and external pressure, ensuring the product arrives in perfect condition.

Shipping:

We offer reliable shipping options to deliver the Semi Automatic BGA Rework Station promptly and safely to your location. The product is shipped via trusted courier services with tracking available for every order. Depending on the destination, various shipping methods such as air freight, sea freight, or express courier can be selected. All shipments comply with international shipping regulations and include proper documentation for customs clearance. We also provide insurance options to protect your purchase during transit.

FAQ:

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

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

Q2: Is the Wisdomshow WDS-620 BGA Rework Station certified?

A2: Yes, it is CE certified, ensuring it meets European safety and quality standards.

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

A3: The minimum order quantity for the Wisdomshow WDS-620 is 1 unit.

Q4: How is the product packaged for delivery?

A4: The Semi Automatic BGA Rework Station is securely packaged in a wooden case to ensure safe transportation.

Q5: What is the typical delivery time after placing an order?

A5: The delivery time is usually between 3 to 5 days after the order is confirmed.

Q6: What payment terms are accepted for purchasing the Wisdomshow WDS-620?

A6: Payment is accepted via TT (Telegraphic Transfer).

Q7: What is the supply ability of the Wisdomshow WDS-620 BGA Rework Station?

A7: The supplier can provide up to 200 units of the WDS-620 model.



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