



Semi Automatic BGA Rework Station with Three Independent Heating Zones, Min Chip Space 0.15mm and Compact Size L605 W655 H710 Mm

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

- Min Chip Space: 0.15mm
- Machine Weight: Net Weight 55 Kg
- Heating Body: Upper/lower Hot Air Heating + Bottom IR Preheating
- Heating Zones: Three Independent Heating Zones
- Working Modes: 5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
- Touch Screen: High-definition Touchscreen HMI
- Power Supply Ac: Ac 220v $\pm$ 10% 50/60hz
- Temp Seasuring Interface: 1 Pc
- Highlight: **Three Independent Heating Zones BGA Rework Station**
, Min Chip Space 0.15mm BGA Rework Station,
Compact Size L605 W655 H710 Mm BGA Rework



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Product Description

Product Description:

The Semi Automatic BGA Rework Station is a state-of-the-art solution designed for precision and efficiency in the repair and rework of Ball Grid Array (BGA) components. This advanced equipment combines innovative technology with user-friendly features to deliver exceptional performance in electronic manufacturing and repair processes.

One of the standout features of this BGA rework station is its sophisticated heating system, which utilizes a three heating zone configuration. This includes upper and lower hot air heating in conjunction with bottom infrared (IR) preheating. The combination of these heating methods ensures uniform and controlled temperature distribution, reducing the risk of thermal damage to sensitive components and printed circuit boards (PCBs). The bottom IR preheating is particularly effective in gradually warming the PCB from below, while the upper and lower hot air heating zones provide precise temperature control during the rework process.

To guarantee the highest level of precision, this BGA rework station is equipped with a cutting-edge optical alignment system. This system allows for accurate positioning of BGA components with mounting accuracy reaching an impressive $\pm 0.01\text{mm}$. Such precision is crucial for successful soldering and placement, especially for fine-pitch and complex BGA packages. The optical alignment system simplifies the alignment process, saving time and minimizing errors during component placement.

The station features five distinct working modes tailored to meet diverse operational needs: Disassembly, Soldering, Placement, Semi-automatic, and Manual. These modes provide flexibility, allowing operators to choose the most suitable method based on the specific task at hand. Whether it is removing defective components, soldering new ones, or manually adjusting placements, the BGA rework station adapts seamlessly to different workflows, enhancing productivity and versatility.

Furthermore, the inclusion of a high-definition touchscreen Human-Machine Interface (HMI) significantly improves user experience. This intuitive interface offers clear visibility and easy navigation through various settings and functions. Operators can effortlessly monitor temperature parameters, select working modes, and control the rework process with precision and confidence. The touchscreen HMI ensures that even complex operations are straightforward and user-friendly, reducing training time and operational errors.

Temperature measurement is another critical aspect of this BGA rework station, facilitated by a dedicated temperature measuring interface. This feature provides real-time monitoring and feedback, ensuring that the heating zones maintain optimal temperatures throughout the rework cycle. Accurate temperature control is essential to prevent overheating or insufficient soldering, thereby improving the reliability and quality of repairs.

Overall, the Semi Automatic BGA Rework Station is an indispensable tool for electronics professionals who require meticulous control and high accuracy in BGA rework tasks. Its three heating zone system, advanced optical alignment system, precise mounting accuracy of $\pm 0.01\text{mm}$, versatile working modes, and high-definition touchscreen interface collectively make it a superior choice for efficient and reliable BGA component repair and assembly.

Whether used in research and development, manufacturing, or repair services, this BGA rework station delivers consistent results, enhances operational efficiency, and supports the production of high-quality electronic devices. Its blend of advanced technology and ease of use makes it an essential investment for any modern electronics workshop.

Features:

Product Name: Semi Automatic BGA Rework Station

Type: BGA Rework Station

Machine Weight: Net Weight 55 Kg

Power Supply: AC 220V $\pm 10\%$, 50/60Hz

Heating Body: Upper and lower hot air heating combined with bottom Infrared preheating table

Heating Zones: Three independent heating zones for precise temperature control

Equipped with a three heating zone system to ensure uniform heating

Ideal for CPU repair and other delicate electronic component rework

Infrared preheating table enhances heating efficiency and prevents thermal shock

Technical Parameters:

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
Min Chip Space	0.15mm
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 $\times$ W655 $\times$ H710 Mm
Packaging Type	Wooden Box

Machine Weight	Net Weight 55 Kg
Heating Body	Upper/lower Hot Air Heating + Bottom IR Preheating (Infrared preheating table)
Temp Measuring Interface	1 Pc

Applications:

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an essential tool for professionals engaged in motherboard repair and electronic component maintenance. Designed with precision and efficiency in mind, this advanced rework station features three independent heating zones, including an upper and lower hot air heating system combined with a bottom infrared (IR) preheating table. This combination ensures uniform heat distribution, reducing thermal stress and increasing the success rate of delicate motherboard repair operations.

The WDS-620 is ideal for a variety of application occasions such as repairing damaged motherboards, replacing BGA chips, and reworking electronic components on complex circuit boards. The infrared preheating table plays a critical role in gently warming the PCB from below, preventing warping and minimizing the risk of damaging sensitive components during the reflow process. This makes it particularly suitable for use in electronic repair shops, manufacturing quality control departments, and R&D laboratories where precision and reliability are paramount.

Thanks to its mounting accuracy of $\pm 0.01\text{mm}$, the Wisdomshow WDS-620 ensures precise alignment of components, which is crucial for high-density circuit boards and fine-pitch BGA packages. The semi-automatic operation streamlines the rework process, improving workflow efficiency without compromising on quality. The machine's robust build, with a net weight of 55 kg, guarantees stability during operation, while its CE certification attests to its safety and compliance with international standards.

The product is thoughtfully packaged in a sturdy wooden box, ensuring safe delivery within 3-5 days after order confirmation. With a minimum order quantity of just 1 unit and a supply ability of 200 units, the WDS-620 is accessible to both small repair shops and larger enterprises. Payment terms via TT further simplify transactions for global customers.

In summary, the Wisdomshow WDS-620 Semi Automatic BGA Rework Station is perfectly suited for motherboard repair and other electronic rework scenarios where precision heating and component handling are critical. Its innovative heating zones, infrared preheating table, and high mounting accuracy make it a versatile and reliable choice for professionals seeking to enhance repair quality and efficiency.

Support and Services:

Our Semi Automatic BGA Rework Station offers comprehensive technical support and services to ensure optimal performance and customer satisfaction. We provide detailed user manuals and setup guides to help you get started quickly and efficiently. Our technical support team is available to assist with troubleshooting, maintenance advice, and operational guidance to maximize the lifespan and accuracy of your equipment.

We also offer calibration services to maintain the precision of the rework station, ensuring consistent and reliable results. Replacement parts and accessories are readily available to minimize downtime. Additionally, we provide software updates and upgrades to enhance functionality and compatibility with the latest BGA components.

Training sessions and workshops can be arranged to help your team develop the skills needed for effective use of the Semi Automatic BGA Rework Station. Our commitment is to deliver prompt and professional support tailored to your specific application requirements.

Packing and Shipping:

Product Packaging and Shipping for Semi Automatic BGA Rework Station

Packaging:

The Semi Automatic BGA Rework Station is carefully packaged to ensure safe delivery and protection against damage during transit. The product is first wrapped in anti-static bubble wrap to protect sensitive electronic components from static discharge and physical impact. It is then placed inside a sturdy, custom-designed cardboard box with foam inserts that securely hold the device in place, preventing movement and absorbing shocks.

All accessories, including nozzles, power cables, and user manuals, are packed separately within the box in clearly labeled compartments. The outer carton is reinforced with additional padding and sealed securely with strong packing tape. Clear handling instructions, such as "Fragile" and "Handle with Care," are printed on the box to alert shipping personnel.

Shipping:

The Semi Automatic BGA Rework Station is shipped using reliable courier services that offer tracking and insurance options to ensure the product reaches customers safely and on time. Depending on the destination, shipping methods may include air freight, sea freight, or express courier services.

Before dispatch, each unit undergoes a final quality check to verify it is complete and operational. Shipping documentation, including the invoice, packing list, and warranty information, is included in the package. Customers receive a tracking number to monitor their shipment's progress until delivery.

For international shipments, all necessary customs declarations and export paperwork are prepared to facilitate smooth clearance through customs.

FAQ:

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

A1: The Semi Automatic BGA Rework Station is from the brand Wisdomshow, and the model number is WDS-620.

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

A2: Yes, the WDS-620 model is CE certified, ensuring it meets European safety and quality standards.

Q3: What is the minimum order quantity for the Wisdomshow WDS-620?

A3: The minimum order quantity for the Semi Automatic BGA Rework Station WDS-620 is just 1 unit.

Q4: How is the WDS-620 packaged for delivery?

A4: The Wisdomshow WDS-620 is securely packaged in a wooden case to ensure safe transportation.

Q5: What is the typical delivery time and payment terms for ordering the WDS-620?

A5: The delivery time for the WDS-620 is usually 3-5 days, and the preferred payment term is TT (Telegraphic Transfer).

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

A6: Wisdomshow can supply up to 200 units of the WDS-620 Semi Automatic BGA Rework Station.



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