



WDS-650 Semi Automatic BGA Rework Station Featuring Automatic Placement Machine Mode

Our Product Introduction

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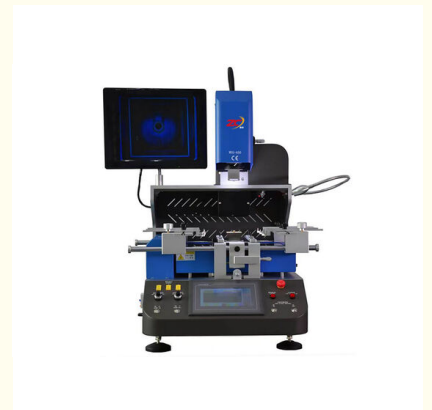
Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-650
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200

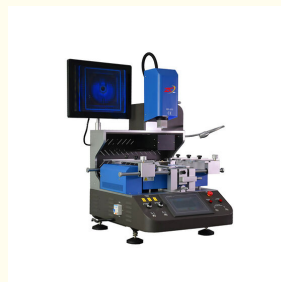


Product Specification

- Maximum Load: 300g
- Applicable Pcb: 470 × 380 Mm(max)
- Down Heater Power: 4000 W (2000 W Controlled)
- Control System: Touchscreen HMI + PLC Control
- Temp Seasuring Interface: 3pcs
- Type: Semi Automatic
- Minimum Order: 1 Piece
- Temperature Precision: ± 1



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Product Description:

The Semi Automatic BGA Rework Station is an advanced and versatile tool designed to meet the demanding requirements of modern electronic repair and manufacturing processes. With a keen focus on precision, efficiency, and ease of use, this rework station is ideal for professionals who need reliable performance in handling delicate BGA components. It combines cutting-edge technology with user-friendly features, making it an essential asset in any electronics workshop.

One of the standout features of this BGA Rework Station is its exceptional temperature precision, maintaining accuracy within ± 1 . This level of control ensures that the soldering and desoldering processes are performed with minimal risk of damage to sensitive components and circuit boards. The precise temperature regulation is crucial for achieving high-quality solder joints and for preventing overheating, which can lead to component failure or board warping.

The machine is equipped with an Infrared preheating table that plays a vital role in the rework process. The Infrared preheating table ensures uniform and consistent heating of the PCB before the main soldering or removal operation begins. This preheating step is essential to reduce thermal stress on the components and the board, thereby enhancing the overall reliability of the repair or assembly. The Infrared preheating table's efficiency also helps to speed up the process, allowing technicians to work faster without compromising quality.

In terms of capacity, the Semi Automatic BGA Rework Station can handle a maximum load of 300 grams, making it suitable for a wide range of BGA components and circuit assemblies. This load capacity is sufficient for most common applications, providing flexibility for various board sizes and component weights.

With dimensions measuring 82*72*89 cm and a weight of 90 kg, the machine is robust yet compact enough to fit comfortably in a professional workshop environment. Its sturdy construction ensures stability during operation, which is essential for maintaining precision throughout the rework process.

The machine mode versatility is another highlight of this rework station. It offers five distinct modes: Automatic Soldering, Automatic Removal, Automatic Placement, Semi-automatic, and Manual. This variety allows technicians to select the most appropriate mode for each task, whether they require full automation for repetitive jobs or manual control for intricate, custom work. The automatic modes enhance productivity and consistency, while the semi-automatic and manual modes provide the flexibility needed for delicate or non-standard repairs.

Powering this sophisticated equipment is a total power consumption of 6800 W, which ensures rapid heating and efficient operation of all integrated components, including the Infrared preheating table and the soldering/removal heads. This high power rating contributes to the machine's ability to reach and maintain precise temperatures quickly, reducing downtime and improving workflow efficiency.

In summary, the Semi Automatic BGA Rework Station is a powerful, precise, and versatile piece of equipment that incorporates an Infrared preheating table to guarantee uniform heating and enhanced process reliability. Its temperature precision of ± 1 , maximum load capacity of 300g, compact yet sturdy dimensions, and multiple operational modes make it an indispensable tool for electronics repair and manufacturing professionals. Whether working on small-scale repairs or larger production runs, this rework station delivers consistent, high-quality results with the flexibility to meet diverse application needs.

Features:

Product Name: Semi Automatic BGA Rework Station

Minimum Order Quantity: 1 Piece

Machine Modes: Five Modes including Automatic Soldering, Automatic Removal, Automatic Placement, Semi-automatic, and Manual

Temperature Precision: ± 1 for accurate hot air heating control

Applicable PCB Size: Supports up to 470 * 380 mm (max)

Overall Dimensions: 655 * 620 * 590 mm

Equipped with advanced hot air heating technology for efficient BGA rework

Ideal for CPU repair and other precise electronic component servicing

Technical Parameters:

| | |
|---------------------------------|---|
| Applicable PCB | 470 * 380 mm (max) |
| Voltage | Single Phase AC 220V \pm 10% / 50 Hz |
| Machine Mode | Five Modes: Automatic Soldering, Automatic Removal, Automatic Placement, Semi-automatic, Manual |
| Temperature Precision | ± 1 |
| Type | Semi Automatic |
| LCD Monitor | 15" Color LCD Monitor |
| Minimum Order | 1 Piece |
| Control System | Touchscreen HMI + PLC Control |
| Temperature Measuring Interface | 3 pcs |
| Dimensions | 82 * 72 * 89 cm, 90 kg |
| Key Features | Optical alignment system, hot air heating, Semi automatic operation |

Applications:

The Wisdomshow WDS-650 Semi Automatic BGA Rework Station is an advanced and reliable tool designed for precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. Originating from China and CE certified, this high-quality rework station combines cutting-edge technology with user-friendly features, making it an ideal choice for electronics repair shops, manufacturing lines, and research laboratories. The WDS-650 is particularly recognized for its infrared preheating table, which ensures uniform heating of circuit boards to prevent thermal damage during the rework process.

This BGA rework station is perfect for occasions where high precision and delicate handling of electronic components are required. It is widely used in scenarios such as repairing smartphones, tablets, laptops, and other consumer electronics where BGA chips are commonly found. Additionally, it serves as an essential tool for prototype development and quality control in electronic manufacturing environments, allowing technicians to replace or reflow BGA packages with remarkable accuracy.

Equipped with an optical alignment system, the WDS-650 enhances the accuracy of component placement, reducing the risk of misalignment and ensuring optimal solder joint quality. This feature is vital in scenarios where fine-pitch BGAs and other complex integrated circuits are involved, as it facilitates precise positioning without relying solely on manual adjustments. The optical alignment system, combined with a temperature precision of $\pm 1^\circ\text{C}$ and a powerful 4000 W down heater with 2000 W controlled power, guarantees consistent and reliable rework results.

The Wisdomshow WDS-650 operates on a single-phase AC 220V $\pm 10\%$ / 50 Hz voltage and has a total power consumption of 6800 W, supporting a maximum load of up to 300 grams. Its robust construction is complemented by a wooden case packaging for secure transportation and safe delivery within 3-5 days after order placement. With a minimum order quantity of just one unit and a supply ability of 200 units, this station is accessible for both small-scale repair shops and large-scale production facilities.

Payment terms via TT make the purchasing process straightforward, while the comprehensive features of the WDS-650, including the infrared preheating table and optical alignment system, make it a versatile and indispensable device for a wide range of BGA rework tasks. Whether used in electronics repair, manufacturing, or R&D, the Wisdomshow WDS-650 Semi Automatic BGA Rework Station offers unmatched performance and reliability for all your rework needs.



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