



WDS-650 15 Inch Color LCD Monitor BGA Rework Station Heating System for Soldering

Our Product Introduction

for more products please visit us on bgaxraymachine.com

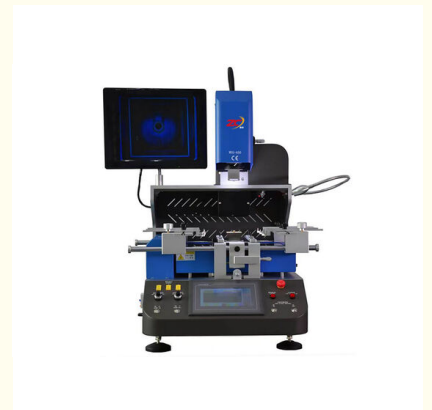
Basic Information

- 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

- Min Pcb Size: 10*10MM
- Temp Seasuring Interface: 3pcs
- Total Powe: 6800 W
- Control System: Touchscreen HMI + PLC Control
- Applicable Pcb: 470 × 380 Mm(max)
- Lcd Monitor: 15" Color LCD Monitor
- Overall Dimension: 655 × 620 × 590 Mm
- Maximum Load: 300g



More Images



Product Description:

The Semi Automatic BGA Rework Station is an advanced and highly efficient tool designed specifically for precision motherboard repair and rework tasks. Engineered to meet the demands of modern electronics manufacturing and repair environments, this BGA rework station combines powerful heating capabilities, precise control systems, and user-friendly interfaces to ensure optimal performance and reliability in every operation.

One of the standout features of this Semi Automatic BGA Rework Station is its robust heating system. It is equipped with a down heater power rated at 4000 W, with 2000 W of this power being controlled to provide precise and consistent heat distribution. This capability is critical for safely and effectively reflowing solder balls on Ball Grid Array (BGA) components without damaging the delicate motherboard or other surrounding electronic parts. In total, the station operates at a total power consumption of 6800 W, ensuring rapid heating and stable temperature maintenance throughout the rework process.

The station's control system is equally impressive, featuring a state-of-the-art touchscreen Human Machine Interface (HMI) combined with Programmable Logic Controller (PLC) control. This dual control system allows operators to easily set, monitor, and adjust process parameters with high accuracy and responsiveness. The touchscreen HMI provides an intuitive user experience, enabling technicians to navigate through menus and settings smoothly, while the PLC ensures reliable automation and precise execution of rework procedures. To enhance precision in the placement and alignment of BGA components, the Semi Automatic BGA Rework Station incorporates an advanced optical alignment system. This system allows technicians to visually align components with extraordinary accuracy, reducing the risk of misalignment and improving the reliability of solder joints. The optical alignment system is a critical asset for achieving high-quality results in BGA rework, where even minor misplacements can cause significant functionality issues in the repaired motherboard.

The station is designed with practicality and ergonomics in mind. It features a generous 15-inch color LCD monitor that provides clear, high-resolution display of all operational parameters, alignment visuals, and system diagnostics. This large screen facilitates easier monitoring and control, making it simpler for technicians to perform complex rework tasks with confidence and precision. Despite its powerful capabilities, the Semi Automatic BGA Rework Station is compact and manageable, with dimensions of 82 cm by 72 cm by 89 cm and a weight of 90 kg. This makes it suitable for a wide range of work environments, from small repair shops to larger manufacturing facilities. Its size allows for easy integration into existing workstations without occupying excessive space, while its weight ensures stability during operation.

In summary, the Semi Automatic BGA Rework Station is an indispensable piece of equipment for anyone involved in motherboard repair and electronic component rework. Its combination of a high-power down heater, sophisticated touchscreen HMI and PLC control system, precision optical alignment system, and a large 15-inch LCD monitor creates a comprehensive solution that enhances both efficiency and quality. Whether you are repairing complex motherboards or performing intricate BGA rework tasks, this station provides the reliability, accuracy, and ease of use needed to achieve professional results consistently.

Features:

Product Name: Semi Automatic BGA Rework Station

Maximum Load Capacity: 300g

Type: Semi Automatic

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

Voltage: Single Phase AC 220V ± 10% / 50 Hz

Total Power Consumption: 6800 W

Equipped with precise hot air heating technology for efficient and uniform heating

Ideal for cpu repair and other delicate electronic component servicing

Hot air heating system ensures minimal thermal damage during operation

Technical Parameters:

| | |
|--------------------------|------------------------------------|
| Type | Semi Automatic |
| LCD Monitor | 15" Color LCD Monitor |
| Voltage | Single Phase AC 220V ± 10% / 50 Hz |
| Applicable PCB | 470 * 380 mm (max) |
| Temp Measuring Interface | 3 pcs |
| Total Power | 6800 W |
| Down Heater Power | 4000 W (2000 W Controlled) |
| Dimensions | 82 * 72 * 89 cm, 90 kg |
| Overall Dimension | 655 * 620 * 590 mm |
| Min PCB Size | 10 * 10 mm |

This BGA rework station features a three heating zone design, ideal for precise CPU repair and efficient PCB handling.

Applications:

The Wisdomshow WDS-650 Semi Automatic BGA Rework Station is a highly efficient and reliable tool designed for various professional applications in the electronics manufacturing and repair industry. This advanced BGA rework station, originating from China and certified

with CE standards, is ideal for precise and consistent soldering and desoldering of Ball Grid Array (BGA) components on printed circuit boards (PCBs). With its infrared preheating table, the WDS-650 ensures uniform heating, minimizing thermal stress and improving the quality of the rework process.

The WDS-650 model is perfect for electronics repair shops, manufacturing facilities, and research laboratories that require high precision and control. Its touchscreen HMI combined with PLC control allows technicians to easily set and monitor temperature with a precision of ± 1 , ensuring optimal heating profiles for different PCB sizes, starting from a minimum of 10*10MM. This makes it suitable for reworking small to medium-sized PCBs with intricate components.

In scenarios where quick turnaround and reliability are crucial, such as in production line repairs or product prototyping, the Wisdomshow BGA rework station excels due to its powerful 6800 W total power, enabling rapid heating and cooling cycles. The wooden case packaging ensures safe transportation, with delivery times as fast as 3-5 days and a minimum order quantity of just one piece. Payment terms are conveniently handled via TT, and the supply ability of 200 units makes it accessible for both small businesses and larger enterprises.

Typical application occasions include repairing defective or damaged BGAs on motherboards, graphic cards, and other electronic devices, as well as upgrading components during product development. The combination of the infrared preheating table and precise temperature control system helps prevent PCB warping and component damage, making it an indispensable tool for delicate soldering tasks. Whether used for rework, prototype assembly, or quality control, the Wisdomshow WDS-650 BGA rework station delivers consistent results and enhances productivity in any electronics workshop.



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