Power Supply 50-60Hz Semi Automatic WDS-750 BGA Rework Station Featuring Chip Magnification 2 -32X Placement Accuracy ±0 02mm Ideal for PCB Rework

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-750
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200Sets / Month



Product Specification

- Placement Accuracy: ±0.02mm
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Total Power: 7600W
- Chip Magnification: 2~32X
- Applicable Chip Size: 0.8×0.8mm – 80×80mm
- Power Supply: AC220V±10%, 50/60Hz
- Thermocouple Ports: 4pcs
- Max PCB Size: 570×480mm



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Product Description

Product Description:

The Semi Automatic BGA Rework Station is an advanced and reliable solution designed for efficient and precise motherboard repair and rework tasks. Engineered with cutting-edge technology, this workstation offers exceptional performance, making it an indispensable tool for electronics technicians and professionals who require high accuracy and consistency in their repair processes. Its robust design and user-friendly features make it ideal for handling complex BGA (Ball Grid Array) components with ease.

One of the standout features of this Semi Automatic BGA Rework Station is its impressive chip magnification capability, ranging from 2X to 32X. This wide magnification range allows users to closely inspect and manipulate minute components with remarkable clarity, ensuring precision during the delicate reworking process. The integrated optical alignment system further enhances the accuracy by providing a clear and stable view of the BGA chips and their soldering points. This system significantly reduces the risk of misalignment, which is critical for successful motherboard repair and reassembly.

The rework station is equipped with four thermocouple ports, enabling precise temperature monitoring and control during the heating process. This multi-port setup allows for comprehensive temperature feedback from different points on the component or motherboard, ensuring uniform heating. Accurate thermal management is crucial in hot air heating applications to avoid overheating or damaging sensitive components. The ability to monitor temperature at multiple locations helps maintain optimal heat distribution, leading to higher success rates in chip removal and re-soldering.

Placement accuracy is a vital aspect of any BGA rework system, and this station excels with a remarkable ±0.02mm precision. Such fine placement accuracy ensures that the BGA chips are perfectly aligned on the motherboard pads before soldering, which is essential for reliable electrical connections and long-term durability of the repaired devices. This precision is achieved through a combination of mechanical design, optical alignment, and control systems that work seamlessly together.

Powering this advanced station is a reliable AC220V±10%, 50/60Hz power supply, providing stable and consistent energy to the system. The total power consumption of 7600W supports the high-performance heating elements and other components, ensuring rapid heating and maintaining the required temperatures for various rework applications. The high power output also allows the station to handle a wide range of chip sizes and types, making it versatile for different motherboard repair scenarios.

The hot air heating technology integrated into this Semi Automatic BGA Rework Station is one of its core strengths. Utilizing precisely controlled hot air, the station can efficiently melt solder balls without direct contact, minimizing the risk of mechanical damage to the components. This method is particularly effective for delicate and densely packed BGA chips, where traditional soldering irons may be impractical or harmful. The hot air heating system provides uniform heat distribution, ensuring consistent reflow soldering and reducing the chances of solder defects.

In addition to its technical capabilities, the station boasts a semi-automatic operation mode, striking a balance between manual control and automated precision. This allows technicians to benefit from automation for repetitive and time-consuming tasks while retaining the flexibility to make adjustments based on specific repair requirements. The ergonomic design and intuitive interface further enhance the user experience, making complex rework procedures more accessible and less labor-intensive.

Overall, the Semi Automatic BGA Rework Station is a powerful and versatile tool tailored for professional motherboard repair and BGA component rework. Its combination of advanced chip magnification, multi-port thermocouple temperature monitoring, high placement accuracy, and robust hot air heating technology makes it a reliable choice for achieving superior repair quality. Whether dealing with small-scale repairs or complex rework projects, this station delivers the precision and efficiency needed to meet the demanding standards of modern electronics maintenance.

Features:

Product Name: Semi Automatic BGA Rework Station

Total Power: 7600W for efficient heating and operation

Placement Accuracy: ±0.02mm, ensuring precise component positioning

Max PCB Size: Supports up to 570×480mm boards

Temperature Control: Closed-loop K-type Thermocouple with upper & lower independent heating, maintaining ±1°C accuracy

Chip Magnification: Adjustable from 2 to 32X for detailed inspection

Equipped with an advanced optical alignment system for accurate CPU repair and component placement

Semi automatic operation enhances ease of use and efficiency in CPU repair tasks

Technical Parameters:

Max PCB Size	570×480mm
Applicable Chip Size	0.8×0.8mm – 80×80mm
Total Power	7600W (Three Heating Zone)
Chip Magnification	2~32X
Placement Accuracy	±0.02mm
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy (Three Heating Zone)

Thermocouple Ports	4pcs
Power Supply	AC220V±10%, 50/60Hz

Applications:

The Wisdomshow WDS-750 Semi Automatic BGA Rework Station is an advanced and reliable solution designed for precise and efficient motherboard repair. Manufactured in Shenzhen, China, and certified with CE, this rework station is tailored to meet the demanding needs of electronics repair professionals. Its exceptional placement accuracy of ±0.02mm ensures that components are positioned with utmost precision, essential for successful motherboard repair tasks.
Equipped with four thermocouple ports and a closed-loop K-type thermocouple temperature control system, the WDS-750 offers independent upper and lower heating with ±1°C accuracy. This feature guarantees uniform heat distribution and protects delicate electronic components during reflow processes. The Infrared preheating table integrated into the station facilitates efficient thermal management by warming up the motherboard evenly before the main rework process, reducing thermal stress and increasing the success rate of repairs.
With a chip magnification range from 2 to 32X, the WDS-750 allows technicians to closely inspect and align BGA chips with high precision, enhancing the quality of soldering and reducing errors. The station operates on a stable AC220V±10%, 50/60Hz power supply, making it compatible with various electrical environments. Its semi-automatic functionality streamlines the rework process, improving productivity while maintaining ease of use.
Designed for use in various scenarios such as electronic repair shops, manufacturing quality control, and prototyping labs, the Wisdomshow WDS-750 excels in motherboard repair applications where precision and temperature control are critical. Whether replacing faulty BGA chips or performing delicate soldering tasks, this rework station provides reliable performance and consistent results.
With a supply ability of 200 sets per month, a minimum order quantity of one, and prompt delivery within 3-5 days, the WDS-750 is readily accessible for businesses of all sizes. Packaged securely in a wooden case to ensure safe transport, and available with convenient payment terms via TT, this rework station offers a professional solution for technicians aiming to enhance their motherboard repair capabilities.

Shenzhen Wisdomshow Technology Co.,ltd

+86 18926538696 elysia.li@wdsbga.cn bgaxraymachine.com

No. 3 Kangtai 3rd Road, Shatou Community, Shajing Street, Bao'an District, Shenzhen, China