Temperature Control ±1°C Accuracy Semi Automatic Equipment Providing Placement Accuracy ±0.02mm Designed for Manufacturing and Control

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-900
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200Sets / Month



Product Specification

- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Max PCB Size: 760×630mm
- Applicable Chip Size: 0.8×0.8mm-80×80mm
- Power Supply: AC380V±10%, 50/60Hz
- Total Power: 9500W
- Placement Accuracy: ±0.02mm
- Thermocouple Ports: 5 Pcs

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Product Description

Product Description:

The Semi Automatic BGA Rework Station is a highly advanced and reliable tool designed for precise and efficient rework of Ball Grid Array (BGA) components. Engineered to meet the demanding requirements of modern electronics manufacturing and repair, this BGA rework station combines sophisticated technology with user-friendly operation, making it an essential addition to any electronics workshop focused on high-quality PCB rework.

One of the standout features of this Semi Automatic BGA Rework Station is its ability to handle a maximum PCB size of 760×630mm, providing ample space for a wide range of circuit boards. This large working area ensures versatility, allowing technicians to work on various projects without the need for multiple machines. Whether you are dealing with small prototype boards or larger production units, this station accommodates your needs effectively.

Temperature control is a critical aspect of any BGA rework process, and this Semi Automatic BGA Rework Station excels in this area. It is equipped with five thermocouple ports, enabling precise temperature monitoring across different zones of the PCB. The closed-loop K-type thermocouple system ensures accurate temperature feedback, allowing for stable and consistent heating. With upper and lower independent heating elements, the station provides optimized thermal profiles that prevent damage to sensitive components and the PCB itself.

Accuracy in temperature control is paramount, and this rework station guarantees a temperature control accuracy of ±1°C. Such precision ensures optimal solder melting and solidification, reducing the risk of defects and improving the overall reliability of the rework process. The ability to independently control the upper and lower heaters further enhances the quality of the process by allowing customized heating profiles tailored to specific chip and board configurations.

The Semi Automatic BGA Rework Station is designed to accommodate a wide range of chip sizes, from as small as 0.8×0.8mm up to 80×80mm. This wide applicability makes it suitable for various components used in modern electronics, from tiny microchips to larger BGA packages. This flexibility ensures that the station can be used across multiple industries and applications, including telecommunications, automotive electronics, consumer electronics, and more.

Another critical advantage of this Semi Automatic BGA Rework Station is its exceptional placement accuracy of ±0.02mm. Such high precision in component placement is vital for ensuring reliable electrical connections and minimizing repair failures. The semi-automatic operation mode strikes a perfect balance between manual control and automation, providing users with the ability to make fine adjustments while benefiting from automated positioning and heating processes. This results in improved efficiency and reduced operator fatigue during repetitive tasks.

The semi automatic nature of this BGA rework station enhances productivity by streamlining the rework process while maintaining high standards of quality. Its intuitive interface and ergonomic design make it accessible to technicians of varying skill levels, reducing training time and increasing throughput. Additionally, the robust construction and high-quality components ensure long-term durability and consistent performance even in demanding production environments.

In summary, the Semi Automatic BGA Rework Station is a versatile, precise, and reliable tool tailored for effective BGA rework. Its large PCB handling capability, advanced temperature control with five thermocouple ports, wide chip size compatibility, and exceptional placement accuracy make it an indispensable asset for electronics manufacturers and repair professionals. Combining semi automatic operation with cutting-edge technology, this BGA rework station enhances both the quality and efficiency of PCB rework tasks, meeting the highest standards of modern electronics production.

Features:

Product Name: Semi Automatic BGA Rework Station

Placement Accuracy: ±0.02mm for precise component positioning

Supports Max PCB Size up to 760×630mm

Total Power Consumption: 9500W for efficient operation

Temperature Control: Closed-loop K-type Thermocouple with Upper & Lower Independent Heating

Temperature Accuracy: ±1°C for reliable thermal management

Power Supply: AC380V±10%, 50/60Hz

Features an Infrared preheating table to ensure uniform heating

Semi automatic operation enhances productivity and ease of use

Designed for semi automatic BGA rework processes with high precision

Technical Parameters:

Max PCB Size	760×630mm
Power Supply	AC380V±10%, 50/60Hz
Thermocouple Ports	5 Pcs
Total Power	9500W
Placement Accuracy	±0.02mm
Applicable Chip Size	0.8×0.8mm - 80×80mm
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy

Applications:

The Wisdomshow WDS-900 Semi Automatic BGA Rework Station is an essential tool designed for a wide range of professional and

industrial applications. Its advanced features and precise temperature control make it ideal for motherboard repair tasks, ensuring high accuracy and reliability in reballing and reworking processes. This BGA rework station is especially suited for electronics manufacturing, maintenance, and repair workshops that require efficient and consistent performance.

One of the primary application occasions for the WDS-900 is in repairing motherboards and other complex printed circuit boards (PCBs). Thanks to its large maximum PCB size of 760×630mm, it can accommodate various board dimensions, making it versatile for different devices and industries. The semi automatic operation combined with the infrared preheating table allows for gentle and uniform heating, reducing the risk of thermal damage to sensitive components and ensuring excellent solder joint quality.

In addition, the WDS-900 is equipped with a closed-loop K-type thermocouple temperature control system, offering independent upper and lower heating with an accuracy of ±1°C. This precise temperature management is crucial for delicate rework scenarios, such as replacing or repairing chips ranging from 0.8×0.8mm up to 80×80mm. The infrared preheating table further enhances the reflow process by providing consistent heat distribution, which is vital for avoiding PCB warping and improving soldering results.

The product is CE certified, reflecting its compliance with international safety and quality standards. Packaged securely in a wooden case and with a delivery time of just 3-5 days, the WDS-900 ensures prompt and safe shipment. With a power supply of AC380V±10%, 50/60Hz and a total power consumption of 9500W, it delivers robust performance suitable for high-volume production environments. The supply ability of 200 sets per month makes it accessible for both small repair shops and larger manufacturing facilities.

Whether used in electronics repair centers, manufacturing lines, or research and development labs, the Wisdomshow WDS-900 Semi Automatic BGA Rework Station provides a reliable, efficient solution for complex motherboard repair and BGA rework tasks. Its combination of semi automatic operation, precise temperature control, and an infrared preheating table makes it an invaluable tool for professionals seeking consistent and high-quality results.

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