Power Supply AC380V±10 Percent motherboard repair offering total power 9500W ensuring circuit board diagnostics and component restoration

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
- Power Supply: AC380V±10%, 50/60Hz
- Thermocouple Ports: 5 Pcs
- Max PCB Size: 760×630mm
- Applicable Chip Size: 0.8×0.8mm-80×80mm
- Total Power: 9500W
- Placement Accuracy: ±0.02mm

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Product Description

Product Description:

The Semi Automatic BGA Rework Station is an advanced and reliable solution designed specifically for precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. This semi automatic system integrates cutting-edge technology with user-friendly controls, making it an ideal choice for electronics repair professionals and manufacturing environments that demand high accuracy and consistency. With its robust build and versatile features, this rework station ensures superior performance for a wide range of PCB sizes and complex reflow tasks.

One of the standout features of this Semi Automatic BGA Rework Station is its capability to handle a maximum PCB size of 760×630mm. This generous working area accommodates large circuit boards, allowing users to work on various industrial and commercial electronics without the need for additional equipment or adjustments. The ample space coupled with the system's precise placement capabilities significantly enhances productivity and reduces the risk of damage to sensitive components.

Temperature control is critical in BGA rework processes, and this station excels in that regard with its closed-loop K-type thermocouple system. Featuring upper and lower independent heating elements, it provides meticulous temperature regulation with an accuracy of ±1°C. This precise control ensures optimal heat distribution, preventing thermal damage while achieving efficient solder melt and reflow. The closed-loop feedback mechanism continuously monitors and adjusts the temperature, maintaining stability throughout the rework cycle.

Accuracy is paramount when repositioning or installing BGA components, and this semi automatic rework station offers exceptional placement accuracy of ±0.02mm. This fine precision ensures that components are aligned perfectly with their corresponding pads, which is essential for reliable electrical connections and long-term device performance. The semi automatic operation streamlines the process, reducing manual intervention and minimizing human error.

Equipped with five thermocouple ports, the station allows for multiple temperature sensing points across the PCB and components. This multi-point temperature monitoring enhances process control by providing detailed thermal data, enabling adjustments to be made in real-time to achieve uniform heating. The flexibility offered by multiple thermocouple inputs is particularly beneficial for complex PCBs with varying thermal profiles.

The power supply requirements for this Semi Automatic BGA Rework Station are AC380V±10%, 50/60Hz, ensuring stable and efficient operation in diverse industrial settings. The station's power design supports high-energy heating elements necessary for rapid and uniform hot air heating. The hot air heating method employed is ideal for BGA rework as it delivers consistent and controllable heat without direct contact, reducing the risk of mechanical damage to components.

Incorporating semi automatic functionality, this BGA rework station strikes a perfect balance between manual control and automation. Operators benefit from enhanced precision and repeatability while retaining the flexibility to intervene when necessary. The semi automatic mode supports improved workflow efficiency, making it suitable for both small-scale repair shops and larger production lines.

Overall, the Semi Automatic BGA Rework Station is a versatile and high-performance tool engineered to meet the demanding needs of modern electronics repair and assembly. Its combination of large PCB accommodation, precise temperature control via closed-loop K-type thermocouples, outstanding placement accuracy, and robust power supply ensures reliable and consistent results. Whether used for delicate component replacement or complex reflow procedures, this semi automatic station delivers excellent value and operational excellence through advanced hot air heating technology.

Features:

Product Name: Semi Automatic BGA Rework Station

Temperature Control: Closed-loop K-type Thermocouple with Upper & Lower Independent Heating, ±1°C Accuracy

Total Power: 9500W

Power Supply: AC380V±10%, 50/60Hz

Max PCB Size: 760×630mm

Applicable Chip Size: 0.8×0.8mm to 80×80mm

Equipped with an advanced optical alignment system for precise positioning

Ideal for cpu repair and other delicate electronic component servicing

Enhanced optical alignment system ensures accurate and efficient rework process

Technical Parameters:

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

Applications:

The Wisdomshow WDS-900 Semi Automatic BGA Rework Station is an essential tool designed for precision and efficiency in electronics

repair and manufacturing. Certified with CE, this advanced rework station is ideal for occasions and scenarios requiring meticulous soldering and desoldering of BGA chips, especially in professional workshops, electronics factories, and research and development labs. Its robust design supports a maximum PCB size of 760×630mm and accommodates chip sizes ranging from 0.8×0.8mm to 80×80mm, making it versatile for a wide range of electronic components.

One of the key application occasions for the WDS-900 is in the repair and rework of high-density printed circuit boards in consumer electronics such as smartphones, tablets, and laptops. The station's optical alignment system ensures precise placement accuracy of ±0.02mm, which is crucial for aligning BGA chips and avoiding damage to delicate circuits during repair. This feature is particularly beneficial when working with small-scale, high-precision components where manual alignment is challenging.

In manufacturing environments, the three heating zone design of the WDS-900 enhances temperature control and uniform heating. Each zone can be independently managed to accommodate different PCB and component thermal profiles, ensuring consistent soldering quality. The closed-loop K-type thermocouple system guarantees temperature control accuracy within ±1°C, preventing overheating or cold solder joints, which is vital during mass production or prototype assembly.

Additionally, the semi automatic functionality of the WDS-900 makes it suitable for training centers and electronics repair shops where speed and repeatability are important. The station's power supply specification of AC380V±10%, 50/60Hz supports stable operation under industrial conditions. With a supply ability of 200 sets per month and a delivery time of just 3-5 days, it is an excellent choice for businesses needing reliable and timely equipment procurement.

Each unit is securely packaged in a wooden case to ensure safe transportation. Payment terms are flexible with TT options available, and the minimum order quantity is just one set, making it accessible for both small-scale and large-scale users. Overall, the Wisdomshow WDS-900 Semi Automatic BGA Rework Station is perfectly suited for electronics repair, prototyping, and production scenarios where precision, reliability, and efficiency are paramount.

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