Placement Accuracy ±0.02mm BGA rework station including 5 Pcs thermocouple ports designed for BGA chip rework and temperature control

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen,China
- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-800E
- 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: AC220V±10%, 50/60Hz
- Max PCB Size: 650×480mm
- Applicable Chip Size: 0.6×0.6mm-80×80mm
- Placement Accuracy: ±0.02mm
- Thermocouple Ports: 5 Pcs
- Total Power: 7500W



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Product Description

Product Description:

The Semi Automatic BGA Rework Station is a state-of-the-art solution designed to meet the demanding needs of modern electronic repair and manufacturing environments. This advanced BGA rework station combines precision, efficiency, and reliability, making it an essential tool for professionals working with Ball Grid Array (BGA) components. Engineered with cutting-edge technology, this semi automatic device ensures superior performance in the rework and repair of delicate and complex chips.

One of the standout features of this BGA rework station is its highly accurate temperature control system. It utilizes a closed-loop K-type thermocouple to monitor and regulate the heating process meticulously. This system supports independent upper and lower heating elements, allowing for precise temperature management on both sides of the component. With an impressive accuracy of ±1°C, the station guarantees consistent thermal profiles, which is crucial for preventing damage to sensitive chips and ensuring optimal soldering results.

The semi automatic operation of this BGA rework station significantly enhances user convenience and process reliability. By automating critical steps while allowing manual oversight, it strikes the perfect balance between control and efficiency. This approach reduces the risk of human error and improves repeatability in repairs, making it ideal for both small-scale repair shops and larger production lines.

Placement accuracy is another critical aspect of this BGA rework station. With a remarkable precision of ±0.02mm, it ensures that components are positioned perfectly during the rework process. This level of accuracy is essential when dealing with tiny chips and complex multi-pin configurations, where even the slightest misalignment can lead to functional failures. The precise placement capability minimizes rework cycles, saves time, and enhances overall product quality.

Powerful heating is vital for effective BGA rework, and this station delivers with a total power output of 7500W. This robust power capacity enables rapid heating and stable temperature maintenance throughout the rework process. The inclusion of hot air heating technology further improves heat distribution, ensuring uniform warming of the chip and substrate. This method is particularly effective for removing and reattaching BGA components without causing thermal stress or damage.

The BGA rework station operates on a standard AC220V±10%, 50/60Hz power supply, making it compatible with most industrial and laboratory settings worldwide. This flexibility ensures that users can integrate the station seamlessly into their existing work environments without the need for specialized electrical infrastructure.

Versatility is a key advantage of this semi automatic BGA rework station. It supports a wide range of chip sizes, from as small as 0.6*0.6mm up to 80*80mm, accommodating various applications and component types. Whether working on miniature microchips or larger integrated circuits, this station provides the necessary adaptability to handle diverse rework tasks efficiently.

In summary, the Semi Automatic BGA Rework Station is a superior tool that combines precise temperature control, exceptional placement accuracy, powerful hot air heating, and broad chip size compatibility. Its semi automatic functionality enhances productivity while maintaining high standards of quality and reliability. This rework station is an indispensable asset for electronics technicians and engineers aiming to achieve flawless BGA repairs and rework with ease and confidence.

Features:

Product Name: Semi Automatic BGA Rework Station
Temperature Control: Closed-loop K-type Thermocouple with ±1°C accuracy
Heating System: Upper & Lower Independent Heating for precise temperature management
Chip Size Compatibility: Supports chips ranging from 0.6*0.6mm to 80*80mm
Power Supply: AC220V±10%, 50/60Hz
Total Power: 7500W
Thermocouple Ports: Equipped with 5 thermocouple ports
Features Semi Automatic operation for efficient and accurate rework process
Includes an Infrared preheating table to ensure uniform heating
Utilizes hot air heating technology for effective BGA rework

Technical Parameters:

Power Supply	AC220V±10%, 50/60Hz
Thermocouple Ports	5 Pcs
Placement Accuracy	±0.02mm
Applicable Chip Size	0.6*0.6mm - 80*80mm
Max PCB Size	650*480mm
Total Power	7500W
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy

Applications:

The Wisdomshow WDS-800E Semi Automatic BGA Rework Station is an essential tool designed for precise and efficient soldering and desoldering of Ball Grid Array (BGA) components. Originating from Shenzhen, China, this advanced rework station is CE certified, ensuring compliance with international quality and safety standards. With a robust power supply of AC220V±10%, 50/60Hz and a total

power rating of 7500W, it delivers reliable performance suitable for various electronics repair and manufacturing environments.
One of the standout features of the WDS-800E is its innovative three heating zone configuration. This design allows for meticulous temperature control with independent upper and lower heating elements, each monitored by a closed-loop K-type thermocouple system. The ±1°C accuracy ensures that the temperature is maintained within a tight range, minimizing the risk of thermal damage to delicate PCBs and components. The inclusion of five thermocouple ports enhances temperature monitoring and control across the PCB, making it ideal for complex repair tasks.
The semi-automatic operation of the Wisdomshow WDS-800E simplifies the rework process, making it accessible for both professional technicians and hobbyists. Its capability to accommodate a maximum PCB size of 650*480mm makes it versatile for a wide range of applications, from small consumer electronics to larger industrial circuit boards. The three heating zone system ensures uniform heat distribution, which is critical for achieving high-quality solder joints and reliable component replacement.
This rework station is perfect for occasions such as electronics manufacturing lines, repair workshops, R&D laboratories, and educational institutions where precision and reliability are paramount. The wooden case packaging guarantees safe delivery within 3-5 days upon order, with a minimum order quantity of just one unit, catering to both bulk purchasers and individual users. Payment terms are flexible, primarily via TT, and the supply ability stands strong at 200 sets per month, reflecting Wisdomshow's commitment to meeting market demands efficiently.
In summary, the Wisdomshow WDS-800E Semi Automatic BGA Rework Station with its three heating zone technology, precise temperature control, and substantial power capacity is an indispensable asset for any scenario requiring expert-level BGA component rework. Whether for routine maintenance, prototyping, or high-volume production, this station delivers consistent, high-quality results, underscoring its value in the electronics repair and manufacturing sectors.

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