50/60Hz Power Supply Fully Automatic BGA Rework Station with ±0.02mm Placement Accuracy for Consistent Manufacturing Output

Our Product Introduction

Basic Information

- Brand Name: WDS
- Model Number: WDS-1250



Product Specification

- Thermocouple Ports: 13 Pcs
- Placement Accuracy: ±0.02mm
- Applicable Chip Size: 0.6×0.6mm - 80×120mm
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Power Supply: AC380V±10%, 50/60Hz
- Max PCB Size: 1200×700mm
- Total Power: 21000W
- Highlight: **50/60Hz Power Supply BGA Rework Station**, **±0.02mm Placement Accuracy BGA Rework Station**
  ,
  Consistent Manufacturing Output BGA Rework Station



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Product Description

Product Description:

The Fully Automatic BGA Rework Station is an advanced and highly efficient solution designed to meet the demanding requirements of modern electronic manufacturing and repair processes. Engineered with precision and reliability in mind, this rework station is ideal for plant environments where Industry degrees of accuracy and consistency are paramount. It offers superior performance by integrating state-of-the-art technology to ensure accurate temperature control and exceptional placement precision, making it an indispensable tool for professionals working with complex electronic components.

One of the standout features of this Fully Automatic BGA Rework Station is its sophisticated temperature control system. Utilizing a closed-loop K-type thermocouple, the machine achieves highly accurate temperature regulation with a precision of ±1°C. This ensures that the heating process is consistently maintained within optimal parameters, preventing damage to sensitive components and enhancing the quality of rework operations. The station's upper and lower independent heating capability allows for precise thermal management, enabling different temperature settings for the upper and lower heating elements. This dual-zone heating system optimizes the reflow process, ensuring uniform heat distribution and reducing thermal stress on the components.

Powering this robust machine is a high-capacity power supply of AC380V±10%, 50/60Hz, delivering a total power output of 21000W. This substantial power ensures rapid heating and stable operation, essential for industrial applications where time efficiency and reliability are critical. The high power rating supports the station's ability to handle a wide range of chip sizes and complexities with ease, facilitating quick turnaround times without compromising on quality.

In terms of precision, the Fully Automatic BGA Rework Station excels with a remarkable placement accuracy of ±0.02mm. This level of accuracy is crucial for working with microelectronic components, where even the slightest misalignment can lead to defective circuits or device failure. The machine's precise positioning mechanism guarantees that chips are placed exactly where they need to be, minimizing errors and rework. This precision is particularly beneficial in Industry degrees of manufacturing settings, where high-volume production demands consistent and repeatable results.

The station is versatile and can accommodate a broad range of chip sizes, from as small as 0.6*0.6mm up to 80*120mm. This wide applicability makes it suitable for a variety of electronic components, including BGAs, QFNs, CSPs, and other surface-mount devices. Whether working on small-scale prototypes or large-scale production batches, this rework station provides the flexibility and capability required to meet diverse manufacturing challenges.

Designed specifically for plant use, the Fully Automatic BGA Rework Station combines robust construction with advanced features to withstand the rigors of continuous operation in industrial environments. Its reliable performance and user-friendly interface reduce operator fatigue and increase productivity, making it a valuable asset in any electronic assembly or repair facility. The station's accurate temperature control system minimizes thermal damage risks, improving yield rates and reducing costly rework cycles.

In summary, the Fully Automatic BGA Rework Station is a top-tier solution for those seeking precision, efficiency, and reliability in electronic component rework. Its closed-loop K-type thermocouple temperature control, independent upper and lower heating, high power capacity, and exceptional placement accuracy make it an essential tool for industry professionals. Capable of handling a wide range of chip sizes and designed for demanding plant environments, this rework station ensures that your manufacturing processes achieve the highest standards of quality and consistency.

Features:

Product Name: Fully Automatic BGA Rework Station
Industry Degrees suitable for precise soldering tasks
Designed For Plant use with reliable and efficient performance
Automatic Soldering capabilities for improved productivity and consistency
Temperature Control: Closed-loop K-type Thermocouple with Upper & Lower Independent Heating
Temperature Accuracy: ±1°C for precise thermal management
Total Power: 21000W ensuring powerful and stable operation
Power Supply: AC380V±10%, 50/60Hz compatible with industrial standards
Thermocouple Ports: 13 Pcs for comprehensive temperature monitoring
Placement Accuracy: ±0.02mm for high-precision component positioning

Technical Parameters:

Total Power	21000W
Applicable Chip Size	0.6*0.6mm - 80*120mm
Power Supply	AC380V±10%, 50/60Hz
Max PCB Size	1200*700mm
Placement Accuracy	±0.02mm
Thermocouple Ports	13 Pcs
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy

Applications:

The WDS Fully Automatic BGA Rework Station, model WDS-1250, is designed for a wide range of application occasions and scenarios in

various industries requiring precise and reliable soldering solutions. Equipped with advanced technology, this rework station ensures exceptional performance with its closed-loop K-type thermocouple temperature control system, offering upper and lower independent heating with an impressive ±1°C accuracy. This feature makes it particularly suitable for high-demand environments where temperature precision is critical.

In industries with high degress of complexity, such as telecommunications, aerospace, automotive electronics, and consumer electronics manufacturing, the WDS-1250 excels in reworking and repairing Ball Grid Array (BGA) components on PCBs. Its capability to handle a maximum PCB size of 1200*700mm allows it to accommodate large circuit boards, making it ideal for industrial-scale production lines and prototyping labs alike.

Thanks to its robust power supply of AC380V±10%, 50/60Hz, and a total power of 21000W distributed across 13 thermocouple ports, the WDS-1250 delivers uniform heating and efficient thermal management. This ensures minimal thermal stress on sensitive components and maximizes rework success rates. The advanced technology embedded in this model supports industry degress that demand both precision and speed, enabling technicians to perform complex rework tasks with confidence and ease.

The WDS Fully Automatic BGA Rework Station is also ideally suited for research and development centers, repair shops, and quality control departments where repeated and highly accurate reflow soldering is necessary. Its automation capabilities reduce human error and increase throughput, making it a valuable asset in scenarios where large quantities of BGA components must be serviced quickly without compromising quality.

In summary, the WDS-1250 rework station is built to meet the stringent requirements of modern electronic manufacturing and repair industries. Its advanced temperature control, powerful heating elements, and adaptability to large PCBs position it as an essential tool for professionals working with complex BGA components in diverse industrial applications requiring high degress of precision and reliability.

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