21000W Fully Automatic BGA Rework Station with ±0.02mm Placement Accuracy and 1030×700mm Max PCB Size for Automatic BGA Rework Machine

Our Product Introduction

Basic Information

- Brand Name: WDS
- Model Number: WDS-2000



Product Specification

- Max PCB Size: 1030×700mm
- Total Power: 21000W
- Placement Accuracy: ±0.02mm
- Thermocouple Ports: 9 Pcs
- Power Supply: AC380V±10%, 50/60Hz
- Applicable Chip Size: 0.6×0.6mm - 120×120mm
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Highlight: **21000W Fully Automatic BGA Rework Station**, **±0.02mm Placement Accuracy BGA Rework Machine**
  ,
  1030×700mm Max PCB Size BGA Rework Equipment



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Product Description

Product Description:

The Fully Automatic BGA Rework Station is an advanced and highly efficient solution designed specifically for the demanding requirements of modern manufacturing environments. Engineered to deliver precision and reliability, this rework station is ideal for industries that require meticulous handling of Ball Grid Array (BGA) components during repair, refurbishment, or prototype development. Its robust build and cutting-edge technology make it an indispensable tool for the electronics manufacturing sector, ensuring superior performance and consistent results.

One of the standout features of this rework station is its impressive total power capacity of 21000W. This high power rating enables rapid heating and cooling cycles, significantly reducing downtime and improving workflow efficiency. Whether you are working on complex multilayer PCBs or large components, the station's powerful heating elements ensure uniform temperature distribution, preventing thermal damage and enhancing the quality of the rework process.

Temperature control is critical in BGA rework, and this station excels with its closed-loop K-type thermocouple system. The thermocouple provides real-time temperature feedback, allowing for precise management of both the upper and lower heating zones independently. This independent heating capability ensures that the top and bottom of the PCB are maintained at optimal temperatures, minimizing thermal stress and warping. The temperature accuracy is maintained within ±1°C, which is essential for delicate components and high-density circuit boards commonly found in advanced industrial applications.

The power supply requirements are well within industrial standards, operating at AC380V±10%, 50/60Hz. This makes it compatible with a wide range of manufacturing facilities worldwide, facilitating seamless integration into existing production lines. The station's design emphasizes reliability and stability, ensuring continuous operation even in demanding industrial settings.

Precision is a hallmark of this fully automatic rework station. With a placement accuracy of ±0.02mm, it guarantees that BGA components are positioned with exceptional precision, reducing the likelihood of soldering defects and improving overall product quality. This level of accuracy is particularly beneficial for complex assemblies where component placement tolerances are extremely tight, and the margin for error is minimal.

The machine accommodates a maximum PCB size of 1030*700mm, making it suitable for a wide range of applications, from small consumer electronics to large industrial control boards. This large capacity ensures flexibility and adaptability, allowing manufacturers to handle diverse projects without the need for multiple rework stations.

Designed with the industry degrees of professionalism and efficiency in mind, this fully automatic BGA rework station is a vital asset for manufacturers focused on quality and productivity. It streamlines the rework process, minimizes human error, and enhances throughput, making it an excellent investment for companies aiming to maintain a competitive edge in the electronics manufacturing sector.

In summary, the Fully Automatic BGA Rework Station combines high power, precise temperature control, exceptional placement accuracy, and large PCB accommodation to meet the rigorous demands of modern manufacturing. It is a versatile, reliable, and efficient tool that supports industry degrees of precision and quality, ensuring that every rework task is performed to the highest standards. Whether used in mass production or specialized repair operations, this rework station is designed to deliver outstanding performance and consistent results, making it a cornerstone of any advanced manufacturing facility.

Features:

Product Name: Fully Automatic BGA Rework Station

Total Power: 21000W for high efficiency and performance

Power Supply: AC380V±10%, 50/60Hz ensuring stable operation

Thermocouple Ports: 9 Pcs for precise temperature control

Applicable Chip Size: Supports a wide range from 0.6*0.6mm to 120*120mm

Placement Accuracy: ±0.02mm for precise component alignment

Designed for Large BGA rework tasks in industrial environments

Full automatic operation for improved productivity and consistency

Suitable for various industry degrees requiring high reliability

Technical Parameters:

Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
Max PCB Size	1030*700mm
Power Supply	AC380V±10%, 50/60Hz
Total Power	21000W
Placement Accuracy	±0.02mm
Thermocouple Ports	9 Pcs
Applicable Chip Size	0.6*0.6mm - 120*120mm

Applications:

The WDS-2000 Fully Automatic BGA Rework Station by WDS is an essential tool designed for precise and efficient soldering and rework tasks in various professional settings. Its advanced features make it highly suitable for handling industry computer components, ensuring high-quality repairs and assembly processes. With a maximum PCB size of 1030*700mm, this rework station accommodates a wide range of printed circuit boards, making it versatile for different industry applications.

One of the key strengths of the WDS-2000 is its exceptional placement accuracy of ±0.02mm, which guarantees precise positioning of

chips and components during the rework process. This level of precision is critical in the industry computer manufacturing and repair sectors, where even minor misalignments can lead to significant functional issues. The device supports applicable chip sizes ranging from as small as 0.6*0.6mm up to 120*120mm, catering to various chip designs and sizes used in modern industry computers.
The WDS-2000 is equipped with 9 thermocouple ports, allowing for accurate temperature monitoring and control across multiple zones of the PCB. This feature is particularly beneficial for managing industry degress during soldering, ensuring uniform heat distribution and preventing damage to sensitive components. The total power capacity of 21000W further enhances its performance, enabling rapid heating and efficient thermal management for complex rework tasks.
This rework station is ideally applied in scenarios such as repairing defective BGA chips on industry computer motherboards, prototyping new circuit designs, and performing routine maintenance on electronic assemblies. It is also suited for use in research and development labs, manufacturing lines, and quality control departments where precision and reliability are paramount. The WDS-2000's fully automatic operation streamlines workflow, reduces manual errors, and increases productivity in any industry computer-related application.
In summary, the WDS-2000 Fully Automatic BGA Rework Station is a powerful and versatile solution designed to meet the demanding requirements of modern electronics manufacturing and repair. Its precision, capacity, and advanced thermal control features make it an indispensable tool for professionals working with industry computer components and managing complex rework processes involving critical industry degress.

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