# 21000W Fully Automatic BGA Rework Station with 9 Thermocouple Ports and 1030×700mm Max PCB Size for Large 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
- Power Supply: AC380V±10%, 50/60Hz
- Applicable Chip Size: 0.6×0.6mm - 120×120mm
- Thermocouple Ports: 9 Pcs
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±1°C Accuracy
- Highlight: **21000W BGA Rework Station**, **9 Thermocouple Ports BGA Rework Machine**, **1030×700mm 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 precise repair and rework of Ball Grid Array (BGA) components in various electronic manufacturing environments. This state-of-the-art equipment is engineered to deliver exceptional performance, accuracy, and reliability, making it an indispensable tool for plants engaged in large BGA rework projects. Built to accommodate a wide range of chip sizes and equipped with cutting-edge technology, this rework station ensures optimal results while minimizing the risk of damage during the rework process.

One of the standout features of this Fully Automatic BGA Rework Station is its robust power supply system. Operating on AC380V±10% at 50/60Hz, the machine is designed to handle demanding industrial conditions with stability and efficiency. This reliable power input supports the station's high-performance heating elements and control systems, enabling continuous operation without compromising precision or safety. Such a power configuration is ideal for plants that require consistent and uninterrupted functionality in their large BGA rework tasks.

Precision is paramount in BGA rework, and this station excels in this regard with a remarkable placement accuracy of ±0.02mm. This high degree of precision ensures that components are positioned correctly on the PCB, reducing errors and enhancing the overall quality of the rework process. Accurate placement is crucial when working with delicate and densely packed electronic components, and this rework station's precision capabilities make it suitable for even the most challenging applications.

Temperature control is another critical aspect of BGA rework, and this station features an advanced closed-loop K-type thermocouple system. It offers independent heating control for both the upper and lower sections of the unit, with an impressive temperature accuracy of ±1°C. This level of control allows for precise thermal management during the rework process, preventing thermal damage to sensitive components and ensuring uniform heating. The closed-loop system continuously monitors and adjusts the temperature to maintain optimal conditions throughout the operation.

In addition to its precise temperature regulation, the station is equipped with 9 thermocouple ports. This multiple-sensor setup enables comprehensive temperature monitoring across different points of the PCB and components, providing detailed feedback to the control system. Such extensive temperature sensing capabilities are essential for large BGA rework tasks where uniform heat distribution is vital to avoid warping or overheating of the board.

The Fully Automatic BGA Rework Station is designed to handle a wide range of chip sizes, from as small as 0.6*0.6mm up to 120*120mm. This versatility makes it suitable for various applications, from repairing tiny ICs to reworking large, complex BGA modules. This adaptability is particularly beneficial for plants that manage diverse production lines and require equipment capable of addressing multiple component sizes without compromising performance.

Ease of use and operator interaction are enhanced by a large size touch screen interface, which simplifies the control and monitoring of the rework process. This intuitive touchscreen allows operators to set parameters, monitor temperatures, and execute rework programs with ease, reducing the learning curve and increasing productivity. The large display ensures clear visibility of all operational data, facilitating precise adjustments and real-time feedback during the rework cycle.

In summary, the Fully Automatic BGA Rework Station is a powerful, precise, and versatile tool designed to meet the rigorous demands of large BGA rework in industrial plants. Its robust power supply, exceptional placement accuracy, advanced temperature control with multiple thermocouple ports, and wide chip size compatibility make it an ideal choice for manufacturers seeking reliable and efficient rework solutions. Coupled with the user-friendly large size touch screen, this station offers a comprehensive package that enhances productivity, quality, and operational ease in any plant focused on large BGA rework tasks.

### Features:

Product Name: Fully Automatic BGA Rework Station

Max PCB Size: 1030*700mm, suitable for large-scale circuit boards

Applicable Chip Size Range: 0.6*0.6mm to 120*120mm, accommodating various chip dimensions

High Placement Accuracy: ±0.02mm for precise component positioning

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

Equipped with 9 Thermocouple Ports for accurate temperature monitoring

Incorporates Advanced Technology for efficient and reliable reballing machine performance

Designed to meet Industry Degrees standards for professional and industrial applications

Fully automatic operation enhances productivity and reduces manual errors

### Technical Parameters:

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

### Applications:

The WDS-2000 Fully Automatic BGA Rework Station by WDS is an advanced and reliable solution designed for precision in the

electronics manufacturing and repair industry. With its robust power supply of AC380V±10%, 50/60Hz and a total power capacity of 21000W, this rework station is capable of handling complex and demanding tasks with ease. It supports a wide range of chip sizes, from as small as 0.6*0.6mm up to 120*120mm, making it versatile for various applications in the industry computer sector.

This rework station is particularly suitable for occasions where high accuracy and efficiency are paramount. Its placement accuracy of ±0.02mm ensures that components are positioned with exceptional precision, which is crucial when working with delicate and densely packed electronic parts on HD monitors, industry computers, and other high-tech devices. The inclusion of 9 thermocouple ports allows for meticulous temperature monitoring during the reflow process, preventing damage to sensitive components and ensuring optimal soldering quality.

In scenarios such as electronics repair workshops, manufacturing lines, and quality control labs, the WDS-2000 serves as an indispensable tool. It is ideal for tasks like reballing, soldering, and desoldering of BGA chips, where manual processes would be time-consuming and prone to errors. The integration of this reablling machine into production or repair workflows enhances productivity, reduces downtime, and improves the overall reliability of electronic assemblies.

Furthermore, the WDS-2000 is highly beneficial in the maintenance and refurbishment of HD monitors and industry computer components, where precise rework is essential to restore full functionality. Its fully automatic operation minimizes human error and accelerates throughput, making it a preferred choice for technicians and engineers aiming for excellence in electronic repair and manufacturing.

Overall, the WDS-2000 Fully Automatic BGA Rework Station is perfectly suited for professional environments requiring high precision, versatile chip size compatibility, and powerful performance, supporting a wide spectrum of applications in the electronics industry.

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