Approx 34KG BGA Repair Tool Power Supply 50 60Hz Engineered for and Precise Electronic Circuit Board Rework Applications

Our Product Introduction

Basic Information

- Brand Name: WDS
- Certification: CE
- Model Number: WDS-S7
- Minimum Order Quantity: 1SET
- Packaging Details: wood carton
- Delivery Time: 5-8 working days
- Payment Terms: T/T
- Supply Ability: 200Sets / Month



Product Specification

- Weight: Approx. 34KG
- Applicable Chip Size: 1×1mm – 60×60mm
- Thermocouple Ports: 1 Pc
- Temperature Control: Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±3°C Accuracy
- Total Power: 4800W
- Max PCB Size: 480×345mm
- Power Supply: AC220V±10%, 50/60Hz



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Product Description

Product Description:

The Manual BGA Rework Station is a highly efficient and versatile tool designed for precise and reliable repair of printed circuit boards (PCBs) and motherboards. Engineered to accommodate a wide range of chip sizes, this rework station supports components ranging from as small as 1*1mm up to 60*60mm, making it an ideal solution for intricate and delicate electronic repair tasks. Whether you are involved in professional electronics repair or hobbyist projects, this device offers the performance and accuracy needed for successful rework operations.

One of the standout features of this Manual BGA Rework Station is its ability to handle PCBs with a maximum size of 480*345mm. This generous capacity ensures that even large motherboards and complex circuit boards can be effectively repaired without the need for additional equipment or cumbersome adjustments. This size compatibility enhances workflow efficiency and reduces downtime during critical repair tasks.

Powered by a robust AC220V±10%, 50/60Hz power supply and delivering a total power output of 4800W, the station guarantees rapid heating and stable temperature maintenance. This high power capacity is vital for achieving uniform heat distribution, which is essential in sensitive processes such as infrared preheating. Infrared preheating plays a crucial role in minimizing thermal stress on components and substrates, thereby improving the reliability and success rate of soldering and desoldering operations.

Accurate temperature control is critical in PCB and motherboard repair to prevent damage to components and ensure optimal solder joint quality. The Manual BGA Rework Station utilizes a closed-loop K-type thermocouple system that provides precise temperature regulation with an accuracy of ±3°C. This advanced control mechanism monitors and adjusts the temperature in real-time, maintaining consistent heat levels throughout the repair process. Additionally, the system features independent upper and lower heating elements, allowing for tailored heat application depending on the specific requirements of the chip and board.

The dual heating design not only enhances the efficiency of thermal transfer but also reduces the risk of component warping or thermal shock. By independently controlling the upper and lower heating zones, technicians can fine-tune the temperature profile to suit various soldering scenarios, making this station highly adaptable for different PCB repair and motherboard repair tasks.

In summary, the Manual BGA Rework Station offers a comprehensive solution for those engaged in the repair and maintenance of electronic devices. Its compatibility with large PCBs, powerful heating capability, and precise temperature control system make it an indispensable tool for infrared preheating and delicate rework applications. Whether you are addressing minor faults or performing extensive motherboard repair, this station provides the reliability, accuracy, and versatility required to achieve professional results with confidence.

Features:

Product Name: Manual BGA Rework Station

Thermocouple Ports: 1 Pc for precise temperature monitoring

Power Supply: AC220V±10%, 50/60Hz

Max PCB Size: 480*345mm

Total Power: 4800W for efficient heating performance

Applicable Chip Size: 1*1mm – 60*60mm

Equipped with a touch screen for easy and intuitive control

Ensures precision temperature control during rework processes

User-friendly interface with touch screen functionality

Technical Parameters:

Total Power	4800W
Applicable Chip Size	1*1mm – 60*60mm
Power Supply	AC220V±10%, 50/60Hz
Max PCB Size	480*345mm
Weight	Approx. 34KG
Temperature Control	Closed-loop K-type Thermocouple, Upper & Lower Independent Heating, ±3°C Accuracy (precision temperature control)
Thermocouple Ports	1 Pc

Applications:

The WDS Manual BGA Rework Station, model WDS-S7, is a highly efficient and precise tool designed for professionals engaged in electronic repair and manufacturing. Originating from Shenzhen, China, and certified with CE standards, this rework station ensures safety, reliability, and superior performance in various applications. Its robust design, weighing approximately 34KG, makes it a stable and durable choice for intricate soldering tasks involving Ball Grid Array (BGA) components.

This rework station is ideal for occasions where precise temperature control is critical. Featuring a closed-loop K-type thermocouple system with upper and lower independent heating, the WDS-S7 guarantees temperature accuracy within ±3°C. This advanced temperature control mechanism is essential for delicate tasks such as mounting and demounting chips, ensuring components are not

damaged during the process. The total power of 4800W allows for rapid heating and efficient operation, reducing downtime and increasing productivity.
The WDS-S7 is perfectly suited for scenarios requiring infrared preheating, a crucial step to evenly heat the PCB before the main rework process. Infrared preheating helps prevent thermal shock and warping of the printed circuit board, especially when working with larger or more complex assemblies. This feature is invaluable when handling PCBs up to a maximum size of 480*345mm and chip sizes ranging from as small as 1*1mm up to 60*60mm, making it versatile for a wide range of electronic components.
In manufacturing environments, the WDS Manual BGA Rework Station excels in reflow soldering and repair of BGA chips during production line maintenance or prototype development. It is also suitable for electronic repair shops where technicians frequently mount or demount chips with precision. The station's ease of use and reliable temperature control make it a preferred choice for engineers and technicians working on sensitive electronics such as smartphones, computers, and other consumer electronics.
Whether for small batch production, repair, or research and development, the WDS-S7 provides a professional-grade solution for all BGA rework needs. Its ability to perform infrared preheating combined with precise temperature regulation ensures that every mounting operation achieves optimal solder joint quality and component integrity. With a minimum order quantity of just one set, this station is accessible for both individual technicians and large enterprises aiming to enhance their electronic repair and manufacturing capabilities.

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