Max PCB Size 10mm X 10mm BGA Chip Designed for Miniature Circuit Boards Power Supply 50 60Hz Ensuring Optimal Performance

Our Product Introduction

Basic Information

- Brand Name: WDS
- Model Number: WDS-580



Product Specification

- Weight: 43kg
- Total Power: 4800W
- Max PCB Size: 10mm X 10mm
- Power Supply: AC220V±10%, 50/60Hz
- Applicable Chip Size: 1×1mm-60×60mm
- Temperature Control: 1pc



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Product Description

Product Description:

The Manual BGA Rework Station is an essential tool designed for professionals and technicians involved in motherboard repair and electronic component servicing. This highly efficient device is engineered to handle a wide range of chip sizes, from as small as 1*1mm up to 60*60mm, making it versatile enough to accommodate various BGA (Ball Grid Array) components and other surface-mounted devices. Whether you are working on intricate motherboard circuits or performing delicate desoldering tasks, this rework station offers the precision and control required for successful repairs.

One of the standout features of this Manual BGA Rework Station is its accurate temperature control system. Equipped with a single, reliable temperature control unit, the device ensures consistent and precise heat application during the rework process. This accuracy is critical when dealing with sensitive electronic components, as it minimizes the risk of thermal damage to both the chip and the printed circuit board (PCB). Maintaining the right temperature throughout the desoldering and soldering operations is fundamental to achieving high-quality, durable repairs on motherboards and other electronic assemblies.

In terms of physical specifications, the rework station is designed with a compact yet sturdy build, weighing in at 43kg. This weight provides stability during operation, which is essential for maintaining accuracy and preventing accidental movements that could damage delicate components. Despite its solid construction, the unit is designed to be user-friendly, allowing technicians to perform extended repair sessions without undue fatigue or inconvenience.

The power supply for the Manual BGA Rework Station is compatible with a standard AC220V±10%, 50/60Hz electrical input, ensuring it can be used in a variety of regions without the need for additional adapters or converters. This universal power compatibility adds to the convenience and usability of the device, making it a practical choice for repair shops and technical laboratories worldwide.

Another important specification is the maximum PCB size the station can accommodate, which is 10mm x 10mm. This dimension is suitable for most common motherboard repair tasks, allowing technicians to work comfortably on small to medium-sized boards. The station's capability to handle these PCB sizes ensures that it meets the demands of modern electronic repair work, where compactness and precision are often required.

The Manual BGA Rework Station's design focuses on providing a reliable and efficient solution for desoldering and re-soldering electronic components. Its precise temperature control, combined with the ability to work with a broad range of chip sizes, makes it an indispensable tool for motherboard repair specialists. Whether you are replacing faulty BGAs, repairing damaged solder joints, or performing routine maintenance on sensitive electronic parts, this rework station delivers consistent performance and professional-grade results.

In conclusion, the Manual BGA Rework Station stands out as a robust, accurate, and versatile device tailored to meet the rigorous demands of electronic repair professionals. Its precise temperature control system, wide chip size compatibility, stable construction, and suitable power supply specifications collectively enable effective motherboard repair and desoldering processes. For technicians seeking a dependable and efficient rework station, this product offers an excellent balance of functionality and reliability, ensuring that every repair job is completed with the highest standards of quality and precision.

Features:

Product Name: Manual BGA Rework Station
Weight: 43kg for stable operation
Temperature Control: 1pc for precise heating
Power Supply: AC220V±10%, 50/60Hz
Applicable Chip Size: Supports 1*1mm to 60*60mm chips
Total Power: 4800W for efficient performance
Features hot air solder technology for accurate pcb repair
Includes Infrared preheating for uniform temperature distribution

Technical Parameters:

Total Power	4800W
Weight	43kg
Temperature Control	1pc
Power Supply	AC220V±10%, 50/60Hz
Applicable Chip Size	1*1mm - 60*60mm
Max PCB Size	10mm X 10mm

Applications:

The WDS-580 Manual BGA Rework Station by WDS is an essential tool designed for precision temperature control during the rework and repair of BGA components. Its robust design, weighing 43kg, ensures stability and durability for consistent performance in various application occasions. The station operates on a reliable AC220V±10%, 50/60Hz power supply, delivering a total power output of 4800W, which provides ample heating capability for effective hot air solder processes.

This rework station is ideal for use in electronics manufacturing, repair shops, and quality control laboratories where precise temperature management is critical. The single temperature control unit allows technicians to set and maintain exact temperature levels, which is crucial for delicate components to avoid damage during hot air solder reflow or removal. The WDS-580 supports a maximum PCB size of

10mm x 10mm, making it suitable for small to medium-sized circuit boards typically encountered in smartphone repairs, computer hardware servicing, and other electronic device maintenance.
In scenarios such as prototyping, component replacement, and board-level repairs, the WDS-580 stands out by offering controlled hot air solder application that ensures uniform heat distribution and minimizes thermal stress. This precision temperature control feature is particularly beneficial when working with sensitive BGA chips where overheating can lead to permanent damage. Additionally, the station's powerful 4800W heating element accelerates the rework process, improving productivity without compromising quality.
The WDS-580 is also well-suited for educational institutions and technical training centers where hands-on learning of soldering and rework techniques is essential. Its user-friendly interface and reliable performance provide students and trainees with the confidence to practice hot air soldering with precision. Moreover, the station's compact design and manageable weight facilitate easy integration into various workbench setups, enhancing workflow efficiency.
Overall, the WDS Manual BGA Rework Station model WDS-580 is a versatile and high-performance tool tailored for applications requiring meticulous temperature control and efficient hot air soldering. Whether in industrial manufacturing, repair service, or educational purposes, this rework station delivers consistent results, making it an indispensable asset for professionals and technicians engaged in BGA component rework and soldering tasks.

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