Semi Automatic BGA Rework Station with Max 7500W Power and HD Optical Camera for 0.3-8mm PCB Thickness BGA Repair Machine

Our Product Introduction

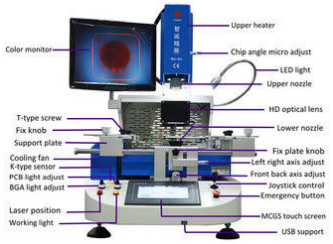
Basic Information

- Brand Name: Wisdomshow
- Certification: CE
- Model Number: WDS-620
- Minimum Order Quantity: 1
- Packaging Details: Wooden Case
- Delivery Time: 3-5days
- Payment Terms: TT
- Supply Ability: 200Sets / Month



Product Specification

- Total Power: Max 7500W
- Characteristic: X/Y Automatically Controlled
- Applicable Pcb Thickness: 0.3-8mm
- Suitable Pcb Size: Max 650*480mm Min 10*10mm
- Applicable Chips: Min 0.6*0.6mm Max 80*80mm
- Machine Mode: Semi Automatic
- Optical Alignment: HD Optical Camera
- Heatingzones: Multiple Independent Heating Zor
- Highlight: **0.3-8mm PCB Thickness BGA Rework Station**, **Max 7500W Power BGA Repair Machine**, **HD Optical Camera BGA Rework Station**



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Our Produc

Product Description

Product Overview

The Semi Automatic BGA Rework Station is an advanced, versatile tool engineered specifically for precision motherboard repair and delicate electronic component rework. It accommodates chip sizes from as small as 0.6 * 0.6 mm up to 80 * 80 mm, making it highly adaptable across electronics manufacturing, repair, and prototyping applications.

Its semi automatic operation mode combines the accuracy and control of manual processes with the efficiency and consistency of automated technology. Technicians can perform complex rework operations with greater ease and precision, reducing the risk of damage to sensitive

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components and improving overall repair quality. This streamlined workflow makes the station an ideal choice for both small repair shops and larger production environments.

The machine supports printed circuit boards (PCBs) with thicknesses ranging from 0.3 mm to 8 mm, ensuring compatibility with everything from thin, flexible boards to thicker, more robust substrates. This flexibility makes it a valuable asset for technicians working on diverse electronic assemblies.

Heating Technology

A key technological advantage of this rework station is its multiple independent heating zones, which can be controlled separately for precise temperature management across different areas of the PCB and the chip being reworked. This multi-zone capability is critical for achieving uniform heat distribution, preventing thermal stress, and minimizing the risk of damage during the reflow process.

The heating mechanism primarily utilizes hot air heating technology, providing a non-contact and highly controllable heat source. Hot air can be directed precisely to the target area without affecting adjacent components, reducing the likelihood of accidental damage. This method also allows for quick temperature adjustments and rapid heating and cooling cycles, enhancing operational efficiency and protecting sensitive electronic parts.

Key Features

- **Product Name:** Semi Automatic BGA Rework Station
- **Thermocouple Type:** 4 thermocouple ports for precise temperature monitoring
- **Suitable PCB Size:** Supports maximum 650 * 480 mm and minimum 10 * 10 mm PCB sizes
- **CCD Camera:** Equipped with an HD optical alignment camera for accurate positioning
- **Temperature Segments:** Custom temperature segments for tailored heating profiles
- **Machine Mode:** Semi automatic operation for efficient, user-friendly CPU repair
- **Design Focus:** Ideal BGA rework station designed specifically for semi automatic CPU repair tasks

Technical Parameters

Rated Capacity	7500W
Total Power	Max 7500W
Thermocouple Type	4 Pcs Thermocouple Ports
Suitable PCB Size	Max 650 * 480 mm, Min 10 * 10 mm
Characteristic	X/Y Automatically Controlled
Optical Alignment	HD Optical Camera
Placement Mode	Semi Automatic
Machine Mode	Semi Automatic
Package Type	Wooden Box
Heating Zones	Multiple Independent Heating Zones (Infrared preheating table with three heating zones)

Applications

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an advanced tool designed specifically for precision motherboard repair and component rework. Originating from Shenzhen, China, this state-of-the-art machine is CE certified, ensuring high quality and safety standards. With a rated capacity of 7500W and multiple independent heating zones, it provides efficient and uniform heating essential for delicate BGA (Ball Grid Array) component removal and soldering processes.

This rework station is ideal for electronics repair shops, manufacturing facilities, and research laboratories where motherboard repair is frequently required. Its semi automatic machine mode strikes a perfect balance between manual control and automated accuracy, making it suitable for both experienced technicians and those new to BGA rework procedures. The integrated HD optical alignment system allows for precise positioning of components, significantly reducing errors and improving rework success rates.

Thanks to the high-performance optical alignment system, technicians can easily align BGA chips with the motherboard pads, ensuring flawless solder joints and reliable electrical connections. This feature is particularly beneficial in scenarios involving complex multi-layer circuit boards where precision is critical. The multiple independent heating zones allow for targeted heating, minimizing thermal stress on the motherboard and preventing damage to sensitive components.

Packaging & Availability

> The Wisdomshow WDS-620 is packed securely in a sturdy wooden case, facilitating safe transportation and storage. With a supply ability of 200 sets per month and a quick delivery time of 3–5 days, this product is readily available for urgent repair needs. Customers can order from a minimum quantity of one unit, and payments are conveniently handled through TT terms.

In summary, the Wisdomshow WDS-620 Semi Automatic BGA Rework Station is a reliable and efficient solution tailored for motherboard repair and BGA component rework. Its advanced optical alignment system, multiple heating zones, and user-friendly semi automatic operation make it indispensable in electronic repair and manufacturing environments. Packaged in a sturdy wooden box, it ensures secure delivery and long-term durability, meeting the needs of professionals demanding precision and performance.

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