



Semi Automatic BGA Rework Station with Independent Three-zone Control, High-definition Touchscreen HMI, and Gear Rack Drives Upper Heating Head

Our Product Introduction

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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: 200



Product Specification

- Dimensions: L605 × W655 × H710 Mm
- Packaging Type: Wooden Box
- Machine Weight: Net Weight 55 Kg
- Characteristic: Independent Three-zone Control, Displays 4 Temperature Curves Simultaneously, Stores Multiple User Data Sets, Real-time Curve Analysis; Fan Speed Saved With Temperature Curve; Gear Rack Drives Upper Heating Head For Durability
- Heating Zones: Three Independent Heating Zones
- Touch Screen: High-definition Touchscreen HMI
- Power Supply Ac: Ac 220v ± 10% 50/60hz
- Temp Seasuring Interface: 1 Pc

Product Description:

The Semi Automatic BGA Rework Station is a highly advanced and versatile tool designed for precise and efficient rework of Ball Grid Array (BGA) components. Tailored for both professional technicians and electronics enthusiasts, this BGA rework station combines cutting-edge technology with user-friendly features to deliver exceptional performance in PCB repair and assembly tasks. One of the standout features of this BGA rework station is its five distinct working modes: Disassembly, Soldering, Placement, Semi-automatic, and Manual. This flexibility allows users to switch seamlessly between different stages of the rework process, adapting to the specific requirements of each task. The semi-automatic mode, in particular, streamlines the operation by combining automation with manual control, enhancing precision while reducing the likelihood of errors.

At the heart of this rework station lies an independent three-zone temperature control system. This innovative design ensures that each zone can be regulated separately, providing optimal heat distribution tailored to the specific component and PCB layout. Such precise thermal management is crucial for preventing damage to delicate components and for achieving reliable solder joints. Moreover, the station is capable of displaying four temperature curves simultaneously, enabling real-time monitoring of thermal profiles during the rework process. This feature, coupled with real-time curve analysis, empowers users to make informed adjustments and optimize the heating strategy for each job.

The Semi Automatic BGA Rework Station also excels in data management, as it can store multiple user data sets. This capability allows technicians to save preferred temperature profiles and operational parameters for various components and scenarios, significantly improving workflow efficiency and repeatability. Additionally, the fan speed is intelligently saved alongside the temperature curve, ensuring consistent cooling performance that corresponds precisely with the heating stages.

Durability and precision in mechanical design are addressed through the gear rack drive mechanism that controls the movement of the upper heating head. This robust drive system guarantees smooth and accurate positioning, enhancing the rework process's stability and repeatability. The minimal chip spacing capability of 0.15mm further highlights the station's suitability for working with fine-pitch BGA components, where space constraints demand exceptional precision.

Powering the station is a reliable AC power supply of 220V ± 10% at 50/60Hz, ensuring stable operation in various electrical environments. This makes the Semi Automatic BGA Rework Station a dependable choice for electronics repair shops and manufacturing facilities worldwide.

Another critical aspect of this BGA rework station is its integrated optical alignment system. This system facilitates accurate alignment of BGA components with the PCB pads, a vital step that minimizes misalignment-related defects during soldering. The optical alignment system enhances the overall efficiency and quality of rework, reducing rework times and improving first-pass yields.

In summary, the Semi Automatic BGA Rework Station is a state-of-the-art tool that combines multiple advanced features to support high-precision BGA component rework. Its five working modes, independent three-zone temperature control, multiple temperature curve displays, real-time analysis, and data storage capabilities provide users with unmatched control and flexibility. The incorporation of a gear rack-driven heating head and an optical alignment system further boosts its reliability and accuracy. Designed to handle the most delicate and compact components with a minimum chip space of 0.15mm, this BGA rework station is an indispensable asset for anyone involved in electronics repair and manufacturing.

Features:

- Product Name: Semi-Automatic BGA Rework Station
- Type: BGA Rework Station
- Packaging Type: Wooden Box
- Characteristic: Independent Three-zone Control
- Characteristic: Displays 4 Temperature Curves Simultaneously
- Characteristic: Stores Multiple User Data Sets
- Characteristic: Real-time Curve Analysis
- Characteristic: Fan Speed Saved With Temperature Curve
- Characteristic: Gear Rack Drives Upper Heating Head For Durability
- Heating Body: Upper/lower Hot Air Heating + Bottom IR Preheating
- Heating Zones: Three Independent Heating Zones
- Includes Infrared preheating table for efficient heat distribution
- Features a three heating zone system for precise temperature control
- Equipped with Infrared preheating table to ensure uniform bottom heating

Technical Parameters:

Type	BGA Rework Station
Heating Body	Upper/lower Hot Air Heating + Bottom IR Preheating
Touch Screen	High-definition Touchscreen HMI
Mounting Accuracy	±0.01mm

Dimensions	L605 × W655 × H710 Mm
Characteristic	Independent Three-zone Control, Displays 4 Temperature Curves Simultaneously, Stores Multiple User Data Sets, Real-time Curve Analysis; Fan Speed Saved With Temperature Curve; Gear Rack Drives Upper Heating Head For Durability
Working Modes	5 Modes: Disassembly, Soldering, Placement, Semi-automatic, Manual
Power Supply AC	AC 220v ± 10% 50/60Hz
Min Chip Space	0.15mm
Machine Weight	Net Weight 55 Kg

Applications:

The Wisdomshow WDS-620 Semi Automatic BGA Rework Station is an advanced and versatile tool designed for precision soldering and rework tasks in various electronic manufacturing and repair environments. Originating from China and certified with CE, this BGA rework station combines reliability, efficiency, and user-friendly features, making it an essential device for professionals working with complex circuit boards.

One of the distinctive features of the Wisdomshow WDS-620 is its three heating zone system, which includes upper and lower hot air heating combined with bottom infrared (IR) preheating. This innovative heating configuration ensures uniform temperature distribution across the component and the PCB, significantly reducing thermal stress and improving solder joint quality. With a minimum chip space of 0.15mm, this BGA rework station is especially suitable for handling high-density and fine-pitch BGA components, providing precise control during the soldering and desoldering processes.

The WDS-620 offers five working modes: disassembly, soldering, placement, semi-automatic, and manual, giving technicians the flexibility to choose the most appropriate mode based on the complexity and requirements of each task. This versatility makes it ideal for various application occasions such as repairing smartphones, tablets, laptops, and other electronic devices where BGA components are commonly used. It is also suitable for small to medium-scale production lines, prototype development, and quality control inspections. Thanks to its compact dimensions (L605 × W655 × H710 mm) and robust design housed in a wooden case for secure packaging, this BGA rework station can be conveniently integrated into existing workbenches and production environments. The device operates on a power supply of AC 220V ± 10%, 50/60Hz, ensuring compatibility with standard electrical infrastructures worldwide.

With a supply ability of 200 units and a minimum order quantity of just one, the Wisdomshow WDS-620 BGA rework station is readily available with a short delivery time of 3-5 days. Payment terms are straightforward with TT options, facilitating smooth transactions. Overall, this semi-automatic BGA rework station is an excellent choice for electronics repair shops, manufacturing plants, and technical service centers seeking a reliable and efficient solution for BGA component rework and soldering.



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