BGA REWORK SYSTEMS

SEAMARK ZM-R730A

Hot Air BGA Rework Station for Large Boards

PCB up to 632 × 520 mm | Optical Alignment ±0.01 mm | ±1 °C Closed-Loop Control | Automatic Feeding



OVERVIEW

The **Seamark ZM-R730A** is a semi-automatic hot air BGA rework station for large and irregular boards up to 632 × 520 mm and chips from 3 × 3 mm to 80 × 80 mm. Three independently controlled heating zones and a 570 × 435 mm infrared preheating zone heat even large industrial control boards evenly.

A 2-megapixel HD imaging system with automatic optical zoom aligns components with ±0.01 mm accuracy, and the automatic feeding device with vacuum pick-up completes PCB transfer and positioning in a single setup. The result is a controlled selective reflow process with soldering quality close to the original SMT assembly.

KEY FEATURES

Stable temperature control
three independently controlled hot-air zones, height-adjustable bottom zone, built-in vacuum nozzle in the top zone with negative pressure monitoring and protection

Large HD touch screen
several operating modes, real-time display and editing of the temperature curve, 8 segments per curve, 100 stored curves, automatic curve analysis

Removable infrared zone
carbon fibre IR tubes behind a high-temperature microcrystalline panel; the zone moves left and right for large and irregular PCBAs

HD optical alignment
2 MP digital imaging, automatic optical zoom and laser red-dot indicator, alignment accuracy ±0.01 mm

Intelligent control
Panasonic PLC, high-precision temperature module and K-type thermocouples with dynamic PID multi-loop closed-loop control, ±1 °C

Safety and process protection
over-temperature alarm, software encryption and foolproof operation

TECHNICAL SPECIFICATIONS

Power Supply	AC 380 V ±10%, 50/60 Hz
Power	7.75 kW max. (top heater 1.45 kW, bottom heater 1.2 kW, IR preheater 4.8 kW, other 0.3 kW)
PCB Size	Max. 632 × 520 mm, min. 6 × 6 mm
BGA Chip Size	Max. 80 × 80 mm, min. 3 × 3 mm
IR Heater Size	570 × 435 mm
Temperature Sensors	5 pcs
Operation	10" HD touch panel (1080p, 16:9)
Control System	Panasonic PLC + temperature control module
Display System	15" HD industrial display (1080p, 16:9)
Alignment System	2-megapixel HD digital imaging, automatic optical zoom, laser red-dot indicator
Vacuum Adsorption	Automatic
Alignment Accuracy	±0.01 mm
Temperature Control	K-type thermocouple, closed loop, accuracy ±1 °C
Feeding Device	Yes
Positioning	V-groove with universal fixture
Dimensions (L×W×H)	1000 × 835 × 960 mm
Weight	130.5 kg

Configuration, demo and quotation

InterElectronic is the Seamark partner for Hungary and Central Europe: application advice, sample tests, installation, training and service.

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Specifications according to Seamark. Subject to change without notice.