BGA REWORK SYSTEMS

SEAMARK ZM-R7220A

Hot Air BGA Rework Station with Optical Alignment

Hot Air Top and Bottom Heating, IR Preheating | Optical Alignment ±0.02 mm | Real-Time Temperature Curve | Joystick Control



OVERVIEW

The **Seamark ZM-R7220A** is a semi-automatic hot air BGA rework station for removing and soldering BGA, QFN and other SMD packages on PCBs up to 412 × 370 mm. A medium-wave ceramic infrared preheater heats the board from below, while the top and bottom hot-air heaters follow the programmed profile under closed-loop thermocouple control.

The optical alignment system with 2-megapixel digital imaging, automatic optical zoom and laser red-dot indicator places chips from 2 × 2 mm up to 60 × 60 mm with ±0.02 mm accuracy, so rework results are repeatable from operator to operator.

KEY FEATURES

Real-time temperature monitoring
live temperature display with automatic curve analysis

Optical alignment system
HD CCD digital imaging (2 MP), automatic optical zoom, manual control and laser red-dot alignment

Rapid heating and cooling
medium-wave ceramic IR preheating plate, movable multi-function PCB bracket, BGA bottom support frame and integrated laminar cooling fan

Joystick control
smooth head lifting and image zoom for fast, intuitive operation

Automatic vacuum pick-up
and V-groove board positioning with universal fixture

7" HD touchscreen
operation with a 15" industrial display

TECHNICAL SPECIFICATIONS

Power Supply	AC 220 V ±10%, 50/60 Hz
Power	5.65 kW max. (top heater 1.45 kW, bottom heater 1.2 kW, IR preheater 2.7 kW, other 0.3 kW)
PCB Size	Max. 412 × 370 mm, min. 6 × 6 mm
BGA Chip Size	Max. 60 × 60 mm, min. 2 × 2 mm
IR Heater Size	285 × 375 mm
Temperature Sensors	1 pc
Operation	7" HD touchscreen
Control System	Autonomous heating control system V2
Display System	15" industrial display (720p)
Alignment System	2-megapixel digital imaging, automatic optical zoom, laser red-dot indicator
Vacuum Adsorption	Automatic
Alignment Accuracy	±0.02 mm
Temperature Control	K-type thermocouple, closed loop, accuracy ±3 °C
Feeding Device	No
Positioning	V-groove with universal fixture
Dimensions (L×W×H)	685 × 633 × 850 mm
Weight	76 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.