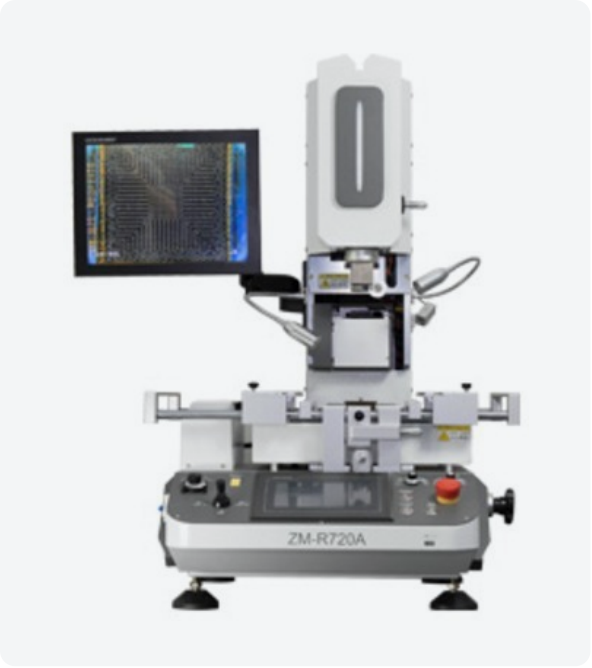
BGA REWORK SYSTEMS

SEAMARK ZM-R720A

Hot Air Rework Station for LED and Micro Components

Chips from 0.6 × 0.6 mm | Optical Alignment ±0.01 mm | ±1 °C Closed-Loop Control | Automatic Feeding



OVERVIEW

The **Seamark ZM-R720A** is a semi-automatic hot air rework station for precision micro devices: mini and micro BGAs, LED chips and other tiny SMD components from 0.6 × 0.6 mm up to 60 × 60 mm, on PCBs up to 412 × 370 mm.

A 2-megapixel HD imaging system with automatic optical zoom and laser red-dot alignment places components with ±0.01 mm accuracy. The carbon fibre infrared preheating zone, the top and bottom heaters and the automatic feeding device make the rework of small parts repeatable and safe for the board.

KEY FEATURES

Carbon fibre infrared heating
IR preheating zone with carbon fibre infrared tubes behind a high-temperature microcrystalline panel, with a multi-function movable PCB bracket

Precision tiny devices
built for the rework of micro components, with automatic feeding; LED feeder fixture available as an option

High-definition alignment
2 MP CCD digital imaging, automatic optical zoom and automatically controlled laser red-dot alignment, ±0.01 mm

15" HD industrial display
1080p image of the component and the pads during alignment

Closed-loop temperature control
K-type thermocouple control with ±1 °C accuracy

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

TECHNICAL SPECIFICATIONS

Power Supply	AC 220 V ±10%, 50/60 Hz
Power	6.15 kW max. (top heater 1.45 kW, bottom heater 1.2 kW, IR preheater 3.2 kW, other 0.3 kW)
PCB Size	Max. 412 × 370 mm, min. 6 × 6 mm
BGA Chip Size	Max. 60 × 60 mm, min. 0.6 × 0.6 mm
IR Heater Size	380 × 280 mm
Temperature Sensors	1 pc
Operation	7" HD touchscreen
Control System	Autonomous heating control system V2
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)	810 × 635 × 870 mm
Weight	84.5 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.