

IR-Q3 BGA REWORK STATION

Focused Infrared Precision, Zero Compromise.

OVERVIEW

The IR-Q3 is a semi-automated rework system designed for high-precision, repeatable rework in production and high-mix environments. Combining Focused Infrared heating with automated component handling, advanced sensing, and software-controlled processes, it delivers consistent results while reducing operator dependency.



KEY ADVANTAGES



FOCUSED INFRARED HEATING

- Visible, targeted focused IR heating directly to the component
- No damage to surrounding components
- Precise and adjustable energy for safe rework



SENSORS

- Non-contact infrared sensor for component temperature measurement
- Non-contact infrared sensor for accurate PCB temperature monitoring
- Enables independent control of component and PCB temperatures



PCB PREHEATER

- Protects components and PCBs from thermal shock
- Fast, even zonal PCB heating
- Reduces thermal gradients, warping, and board stress



AUTOMATIC COMPONENT REMOVAL & PLACEMENT

- Automated component lift and placement system
- Reduces operator variability
- Improves consistency and repeatability
- Supports high-mix and production workflows



THERMOACTIVE SOFTWARE

- Simple, intuitive interface for process control
- Automated temperature profiling and monitoring
- Ensures consistent, repeatable rework performance



ALIGNMENT SYSTEM

- Manual optical alignment system
- Accurate component positioning
- Designed for reliable, repeatable placement

TECHNICAL SPECIFICATIONS

Max PCB Size: 12 x 18"/300 x 450mm

Max Component Size: 2.1 x 2.1"/55 x 55mm

Min Component Size: 1 x 1mm

Component Removal: Automatic Component Removal and Placement

Component Placement: Split Beam Prism Alignment/x50 Magnification

Placement Accuracy: Up to 10um

Top Heater Power: 150W Focused Infrared up to Ø70mm Spot

PCB Preheater Power: 2800W Medium-Wave IR (3 Zones)

PCB Preheater Heating Area Size: 14.1 x 9.4"/360 x 240mm

Component Temperature Sensing: Non-Contact IR Sensor

PCB Temperature Sensing: Non-Contact IR Sensor

Number of TC Channels: 4