PDR | REWORK

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 (optional)
- 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	**Top Heater Power:** 150W Focused Infrared up to Ø70mm Spot
Max Component Size: 2.1 x 2.1"/55 x 55mm	**PCB Preheater Power:** 2800W Medium-Wave IR (3 Zones)
Min Component Size: 1 x 1mm	**PCB Preheater Heating Area Size:** 14.1 x 9.4"/360 x 240mm
Component Removal: Automatic Component Removal and Placement	**Component Temperature Sensing:** Non-Contact IR Sensor
Component Placement: Split Beam Prism Alignment/x50 Magnification	**PCB Temperature Sensing:** Wire TC
Placement Accuracy: Up to 10um	**Number of TC Channels:** 4