

# PCBRM15/System 5.2



Lead-Free Selective Soldering & Rework  
of Through-Hole Components &  
Thermally Challenging Assemblies

The PCBRM System 5.2 adds  
a 6500 watt Preheater



**Precision Operation Control, Minimal Copper Dissolution and Board Delamination,  
Fast and Uniform Heating for Effective Lead-Free Selective Soldering**

## Advantages

- Lead-Free & thermally challenging assemblies.
- Minimal Copper dissolution in PCB barrels.
- Minimal board delamination.
- Fast and uniform heating.
- Precise operating controls and alignment system.
- Quick component removal and soldering.
- Reliability, simple design, trouble-free operation.

## Precise Operating Control

- Solder Wave Contact - Cycle duration automatically sets time solder contacts board.
- Solder Wave Flow Rate - allows level wave for any flow well shape or size. Three (3) stage settings for enhanced process control.
- Temperature - Closed-loop control of set temperature. System can be set to 615°F (325°C).

## Pumping System & Solder Pot

- Cast iron solder pot and titanium/cast iron impeller pump are designed to withstand aggressive, lead-free solder.
- Minimal dross accumulation and level solder wave.

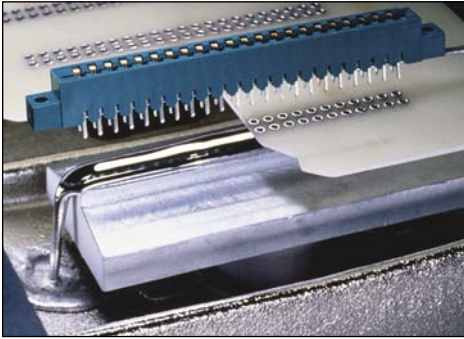
## Alignment System

- X, Y, Z Board Carrier - Cantilever rails, linear bearings and rigid cast framework provides large board holding, precision rail movement and continuous usage.
- PCB Hole Cleaning System (option) - Component is aligned over solder wave then cleaning hood is positioned to clean PCB barrels.

## Titanium Flow Wells

- Solder flow is directed away from adjacent components.
- High pin count leads are heated simultaneously for a quick process.
- Locating pins position the lead pattern over the wave.
- External heaters maintain uniform heat on large wells.
- Fixtures for multiple and irregularly shaped boards.

# Precision Control For Lead-Free & Thermally Challenging Assemblies



SOLDER FLOW MATCHES LEAD PATTERN



TITANIUM FLOW WELLS



CUSTOM WELLS & MATCHING CLEANING HOODS



REGULAR, MULTIPLE & IRREGULARLY SHAPED BOARDS



ROBUST SOLDER POT & PUMP

## Technical Data

### PCBRM15

- Physical Dimensions: 32"W x 32"D x 26"H
- Solder Capacity: 35 lbs. Weight with Solder: 125 lbs.
- Compressed Air: 40-80 psi, clean moisture free
- Electrical: 208/220V, 15 amps @ 220V, 50/60Hz single phase, 2500 watts.

### PCBRM System 5.2

- Physical Dimensions: 76"W x 33"D x 28"H
- Board Carrier Size: 24"W x 20"D
- Solder Capacity: 35 lbs. Weight with Solder: 230 lbs.
- Compressed Air: 40-80 psi, clean moisture free
- Electrical: 45 amps @ 220V, 50/60Hz, 10000 watts.

TECHNICAL DATA SUBJECT TO CHANGE.

## Options

[Flow Well Heater Control Module \(ST350\)](#)

[Air Cleaning System \(APS\)](#)

[Fume Extraction Manifold \(3005.02.040\)](#)

## Recommended Spare Parts

[Drive Belt \(high temp\) \(12467\)](#)

[Pump Bearing \(set of 2\) \(9001.09.020\)](#)

[Thermocouple & Fitting \(process\) \(12801\)](#)

[Thermocouple & Fitting \(overtemp\) \(12802\)](#)

**PCBRM System 5.2 adds  
a Preheater (6500 watt)**

