

## FUSION INCORPORATED

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### **BRAZE MATE**      **Single Station** **Model 100**      **Brazing/Soldering Machine**

#### **SEQUENCE OF OPERATION:**

- Operator loads assembly into stainless steel fixture.
- Paste applied with automatic dispenser gun.
- Dual, zero-pressure touch buttons depressed to actuate automatic heating/cooling cycle.
- Joined assembly unloaded by operator; rates up to 60 per hour.

#### **SPECIFICATIONS**

**CONSTRUCTION:** Structural aluminum frame with clear polycarbonate guarding on three sides.

**DIMENSIONS:** 36"W x 48"D x 34" load height; operator can be seated.

**PASTE APPLICATOR:** Two modes available, hand-held or stationary mounted.

**HEATING:** Rigid steel gas train includes air pressure switch, gas flow meter, and manifold pressure gauges. Single-axis heat slide oscillates throughout timed heat cycle to eliminate "hot spots" at assembly joint area. Quick-change heat manifold adapts to different part requirements. Hi-Lo flame control to conserve fuel when heat is idle.

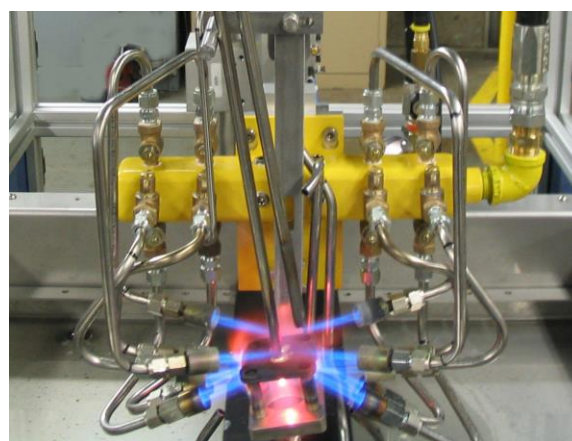
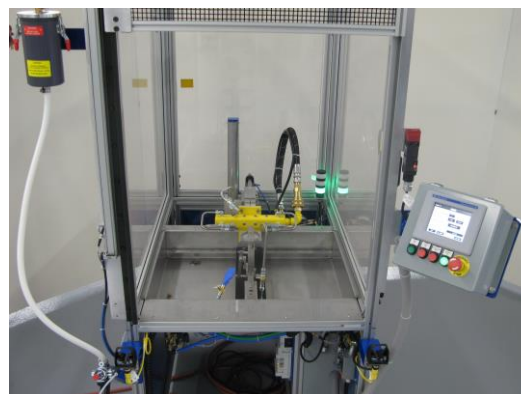
**COOLING:** Timed air and water sequence; water captured in stainless steel trough; optional water recirculating system available.

**FIXTURES:** Stainless steel mounted on "unistrut"; quotations based on assembly prints and parts.

**CONTROL:** PLC with Operator Interface Panel to change timers and counters.

**SAFETY FEATURES:** Rigid mesh screen automatically moves into position before heating/cooling cycle commences. Safety relays for E-Stop circuits, Electrical Interlocks on all doors.

**UTILITIES:** 120 volts, single phase, 5 amp; natural gas or propane; 80 psi air, water and drain.

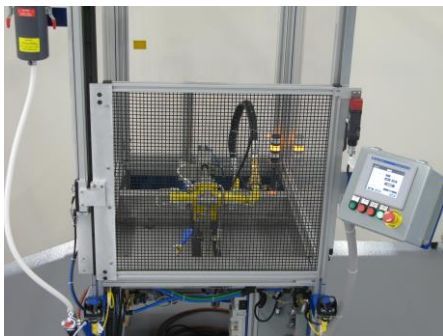


*Oscillating burners distribute heat evenly throughout joint area.*

**See Reverse Side for More Information**

# BRAZE MATE

## Model 100



*Rigid Safety Screen is vertically driven.*



*Hinged door provides easy access to utility and heat controls*

## STANDARD FEATURES

- Quick-disconnect manifolds require no tools to change, making part changeovers quick and easy.
- Fully adjustable manifold position makes machine configurable for most applications.
- Gas flowmeter and manifold manometer to verify process settings.
- Heat, air cool, and water cool time adjustable through operator interface.
- Needle valves installed on all air and water cooling outlets.
- Individual gascocks installed for each burner to allow individual flow adjustments or to turn burners on and off depending on part being processed.
- Stainless steel tubing used for burner pattern provides rigidity.
- Perimeter guarding provides safety and process stability and shielding from air currents.
- Polycarbonate windows allow for good visibility.
- Banner two-hand safety switches assure operator is clear of machine.
- All guard doors hinged for easy maintenance.
- All utility connections located together.
- Color-coded piping for gas lines, air lines, and water lines.
- Air dump valve with lockout for main air supply.
- Hi/Lo heat system conserves fuel by switching to low settings between cycles.
- Heat systems built to NFPA-79.
- CE marking available for European markets.
- Powder coated paint on painted surfaces.
- Isolation valves installed on incoming air and fuel source lines.
- Oscillating heat slide with adjustable stroke spreads heat throughout the joint area evenly.
- Stainless steel water trough.
- Access door for heat system adjustments.
- Safety pressure switches on heat system detect low gas pressure, high gas pressure, and low air pressure.
- Proximity switches installed on extend and retract positions of all slides.
- Quick disconnects on all proximity switches.
- Flow controls installed on all cylinders and slides.
- Air dump valves installed on all slides to assist with setups and adjustments.
- Paste tanks supplied with quick-release lid clamps.
- Paste guns controlled through the PLC to allow paste adjustments.
- Manual paste purge pushbuttons supplied for each paste gun.
- One spare paste gun supplied for each paste gun used.
- Free servicing of paste guns when Fusion paste products are used.
- PLC with human machine interface (HMI).
- Fault messages on HMI.
- Recipe function.
- Remote support hardware.
- 24VDC control voltage.
- Quick disconnect on proximity switches, pressure switches, and solenoid valves to make maintenance quick and simple.
- Leveling Feet.