



FUSION INCORPORATED

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ROTARY INDEX Brazing/Soldering Model 100 Machine

SEQUENCE OF OPERATION:

- Operator loads assembly into stainless steel fixture.
- Deposit of paste alloy is applied automatically (or manually) to the joint area.
- Assembly indexes through a series of natural gas/air heat stations.
- Compressed air and water quench cools both the part and fixture for safe operator unloading.



SPECIFICATIONS

CONSTRUCTION: Structural aluminum frame with clear acrylic guarding on three sides; 20" dia. stainless steel dial with stainless water trough.

DIMENSIONS: 48"W x 48"D x 38" load height; guarding extends 40" beyond load height.

INDEXER: Cam-Driven indexer, 6 or 8-station.

PASTE APPLICATOR: Three modes available: automatic, hand-held, or off-station mounted.

HEATING: Three-station capacity; rigid steel gas train includes air pressure switch, gas flow meter, and manifold pressure gauges. High/Low gas/air system transitions to low flame when machine detects no parts have been loaded into fixture.

COOLING: Timed air and water sequence cools parts and fixtures; optional water recirculating system available.

CONTROL: PLC (A-B MicroLogix 1000) with MicroView Operator Interface Panel to change timers and counters.

UTILITIES: 120 volts, single phase, 5 amp; 24 VDC control voltage; natural gas or propane; 80 psi air, water and drain.

RATE: 100 – 200 parts per hour; dependent on assembly mass and configuration.



Applicator gun dispenses two deposits of paste filler metal to joint area.



Precision heat pattern distributes filler metal evenly throughout joint area.

See Reverse Side for More Information

ROTARY INDEX

Model 100



STANDARD FEATURES

- Operator Station with PLC Interface makes part changes quick and easy while providing machine diagnostics for quick troubleshooting
 - Heat manifolds are powder coated
 - Gas Flowmeter and Manifold Manometer to verify process settings
 - Heat, Air Cooling, and Water Cooling time adjustable through Operator Interface
 - Needle Valves installed on all air and water cooling outlets
 - Individual gas cock 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
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- Guarding provides safety and process stability by shielding from air currents
 - Guarding doors allow for easy maintenance
 - Polycarbonate windows allow for good visibility
 - 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
 - Isolation valves installed on incoming air and fuel source lines
 - 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
 - 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 adjustment through the PLC
 - Manual paste purge pushbuttons supplied for each paste gun
 - 1 spare paste gun supplied for each paste gun used
 - Free servicing of paste guns when Fusion paste products are used
 - Allen-Bradley ControlLogix PLC with a PanelView Operator Interface
 - 24VDC control voltage
 - Quick Disconnect on proximity switches, pressure switches, and solenoid valves to make maintenance quick and simple.
 - Leveling Feet
 - Cam-Driven Indexer
 - 0.75" Thick Aluminum Toolplate
 - Stainless Steel Toolplate Cover
 - Stainless Steel Water Trough