

# ROBOTICS, Inc.

## Braze Paste Dispensing System

**ROBOTICS, Inc. Braze Paste Dispensing Systems** are ideal for mid to high volume automatic dispensing of metal-filled braze paste onto a wide range of part sizes.

### Benefits

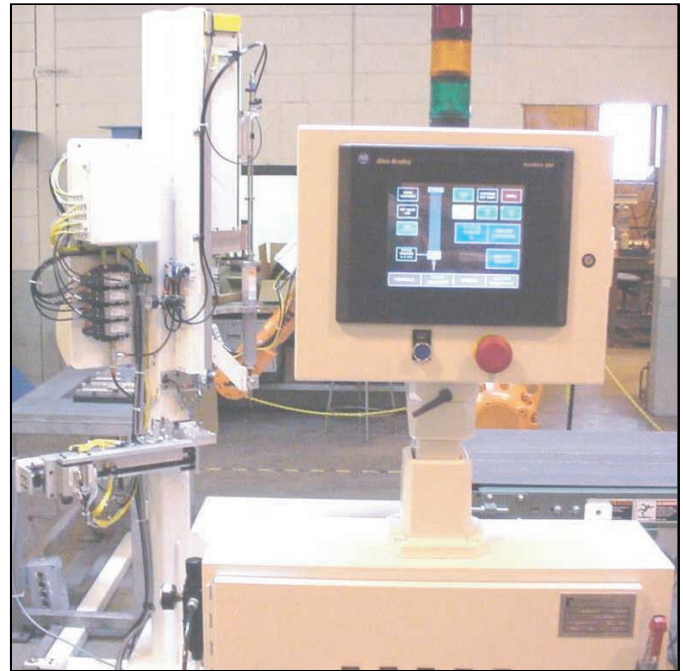
- Fast, accurate and repeatable dispensing
- Precise, computer-controlled volumetric output
- Dispenses beads and/or dots of braze paste
- Handles a wide range of part sizes
- Ideal for mid to high volume applications
- Accommodates various metal-filled braze paste products
- Rapid part changeover
- Quick cartridge changeout mechanism

### Cartridge Dispensing System Features

- Computer controlled, servo-driven piston assembly provides precise paste flow control
- Cartridge mounting assembly with manual air release switch designed for fast and easy cartridge changeout
- Laser-based flow sensor confirms braze paste has been dispensed
- Pressure sensor at nozzle allows computer to verify material pressure is within preset limits
- Custom dispensing configurations available (e.g. fixed nozzle dispense stand, robot-mounted cartridge dispense assembly, etc.)

### QualiTip™ Nozzle Assurance Features

- Tip Alignment Sensor verifies nozzle tip is in correct position to assure dispense accuracy
- Slide mechanism extends wire and brushes, wiping away excess braze paste to maintain tip integrity
- Tip check gauge allows operator to quickly align nozzle tip during setup and nozzle replacement



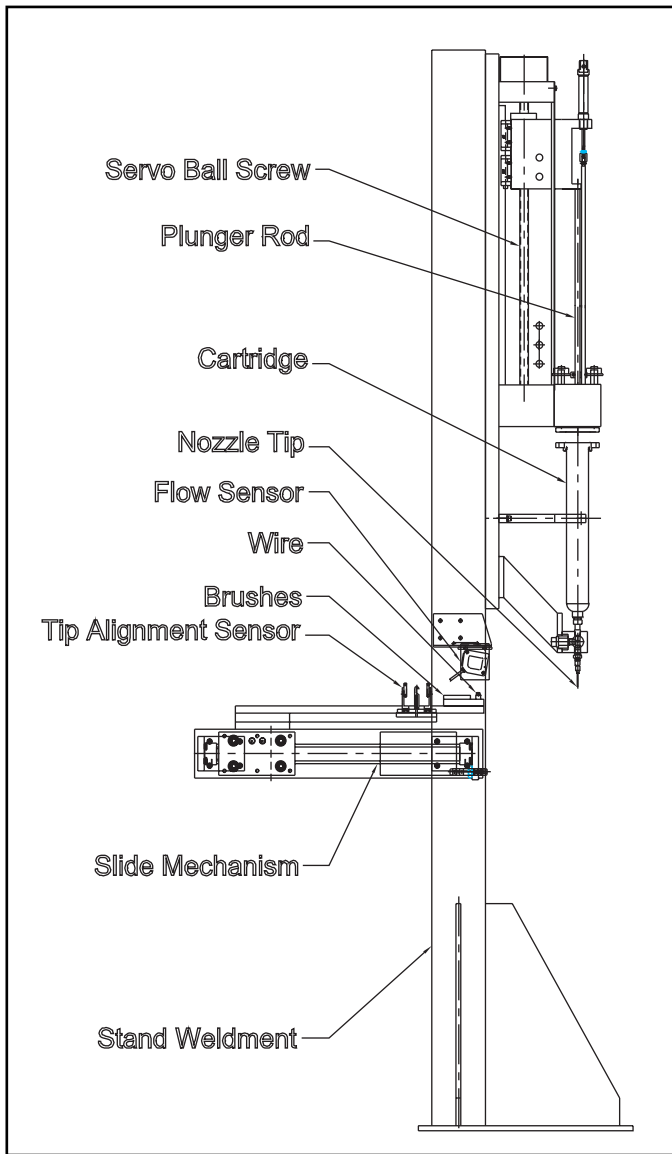
Braze Paste Dispensing System consists of the Dispense Stand (left) and the Control Cabinet. This workcell has a fixed nozzle dispense stand configuration and includes a 6-axis part handling robot.

### System Control Features

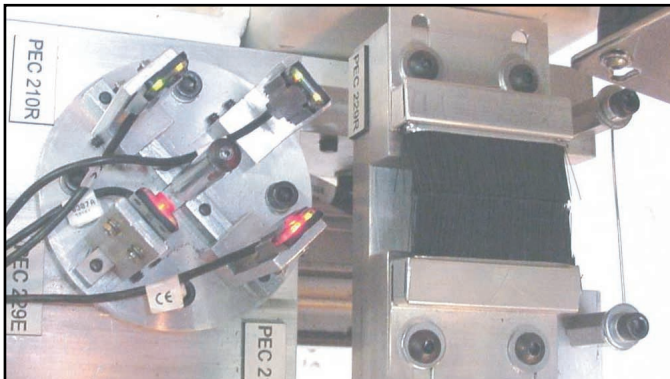
- Allen-Bradley PLC and control enclosure
- PanelView™ Color Touch Screen mounted in swivel enclosure
- User interface screens provide complete system setup, control and monitoring

### Optional Features

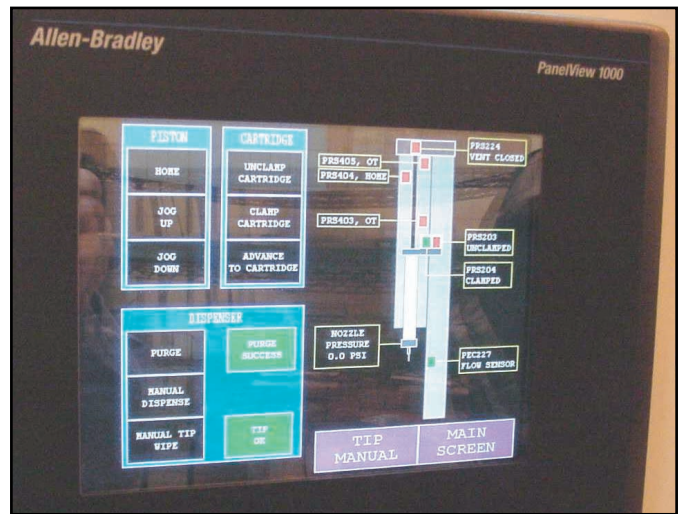
- Part fixturing
- Part presence and load fault sensing
- Automatic part identification to run correct motion path program
- Safety fencing
- Light curtains
- Robot arm collision sensor
- Turnkey workcells



Key components on Braze Paste Dispense Stand (fixed nozzle configuration).



**QualiTip™ Nozzle Assurance:** This automatic nozzle maintenance feature supports high volume, high quality dispensing by eliminating braze paste buildup. Wire and brushes (right) wipe excess braze paste off nozzle. Tip Alignment Sensor (left) confirms tip is in correct position.



**Color Touch Screen:** Graphical user interface screens offer complete system setup, control and monitoring. On this Setup Screen, touch buttons (left) provide dispense controls, while the Dispense Stand graphic (right) displays status of all sensors. Other screens include: Main (Auto Mode), Manual, Tip Manual, Part Select and Alarm History.

## Systems & Support

Robotics, Inc. has over three decades of experience designing and building automated dispensing systems. We provide complete system solutions, including start-up and installation assistance, training, field service support, and complete documentation. We provide both standard systems and custom-designed solutions. Depending on your specific project requirements, Robotics Inc. staff will design and build a system that is right for you.

## Information

For more information on the Braze Paste Dispensing System or other Robotics, Inc. products and services, contact a Representative from our Technical Sales Department:



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*Since 1971, Robotics Inc. has designed, built, and supported automated dispensing around the world!*