



### APPLICATION

**Electronic Component Form-In-Place (FIP) Gasketing**  
-Aluminum brake control covers

### Objective

The customer needed an on-line automated station to apply a continuous path liquid silicone rubber (LSR) seal around the perimeter of electronic brake control covers. This was accomplished within the customer's repeatability, accuracy, and cycle time requirements.

### Dispensing Material

Liquid Silicone Rubber

- Two-part
- Heat-curable
- 1:1 mix ratio



Here the cover is shown with the two-part LSR seal dispensed around the perimeter by a Robotics, Inc. Program-A-Spenser™ pass-through gantry dispensing system.

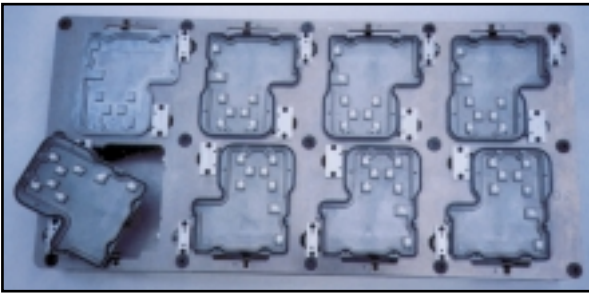
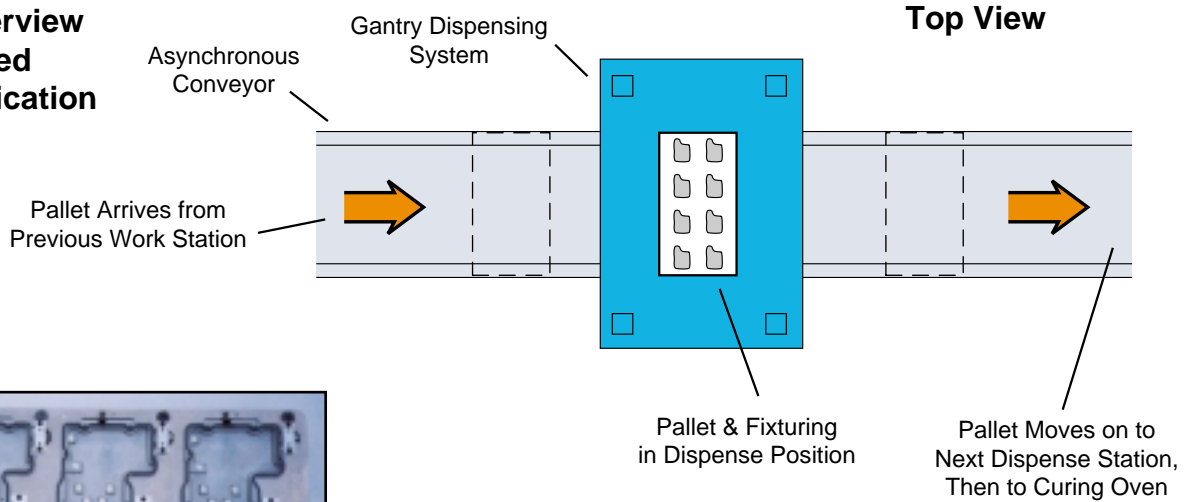


The Program-A-Spenser™ dispensing system (center), the main control enclosure (left), and the Program-A-Flow™ / Sense-A-Bead™ controls (right)

### Key System Features

- **Program-A-Spenser™** 3-axis gantry automated dispensing system. Work envelope: 24"x12"x6"
- Material delivery system: Patented two-part **Program-A-Flow™** continuous-output meter/mix system
- Curing: Three-zone 18' automated electric convection oven
- Fully-automated asynchronous conveyors
- Part handling: Eight-parts per pallet with part-presence detection
- Part height-sensing & auto-adjust
- **Sense-A-Bead™** (Pressure monitoring & bubble detect)
- Two 55-gallon material supply pumps
- Dispense nozzle tip-position calibration

## Schematic Overview of Automated Gasketing Application



A pallet of parts showing a continuous LSR bead sealing the perimeter of the brake cover

## Systems & Support

Robotics, Inc. has 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. Depending on your specific project considerations, Robotics Inc. staff will design and build a system that is right for you.

## Information

Robotics, Inc. has designed and built numerous dispensing applications for a variety of industries since 1971. For more information on this application or other products and services, contact a Robotics Inc. Sales Representative:



### Headquarters

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## Process Specifications\*

<b>Part</b>	Aluminum electronic brake control cover Approximate dimensions: 4" x 5½"
<b>Production Rate</b>	360 jobs/hour
<b>Gasketing Material</b>	Liquid Silicone Rubber
<b>Cure Time</b>	5-8 min. @ 300° F
<b>Bead Dimensions</b>	21" Length; .125" diameter

\* Values are based on customer's specific requirements.  
Call for further information regarding system capabilities and product specifications.

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

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