



APPLICATION

Electronic Component Assembly

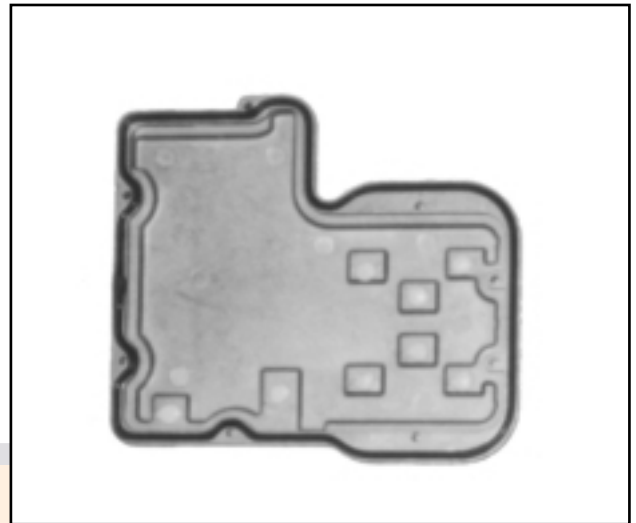
Objective

The customer needed an on-line automated station to apply silicone adhesive to eight points per part. This was accomplished successfully within required cycle time as well as with high standards of repeatability and accuracy.

Dispensing Material

Silicone adhesive

- thermally conductive
- heat-curable
- contains unusually difficult-to-dispense aluminum oxide and glass bead components



Adhesive drops are applied in 8 positions, as shown, by a Robotics, Inc. Program-A-Spenser™ gantry robot.



Once the pallet of parts is conveyed and indexed, the Program-A-Spenser™ gantry robot accurately dispenses the adhesive.

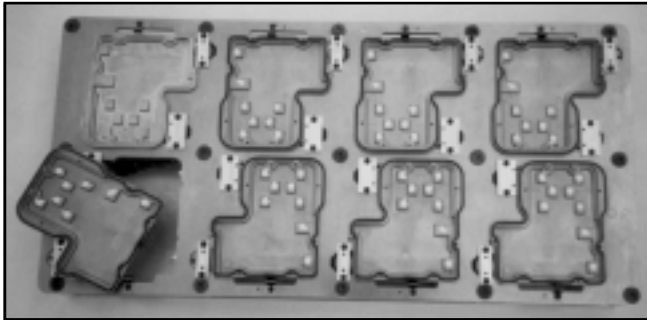
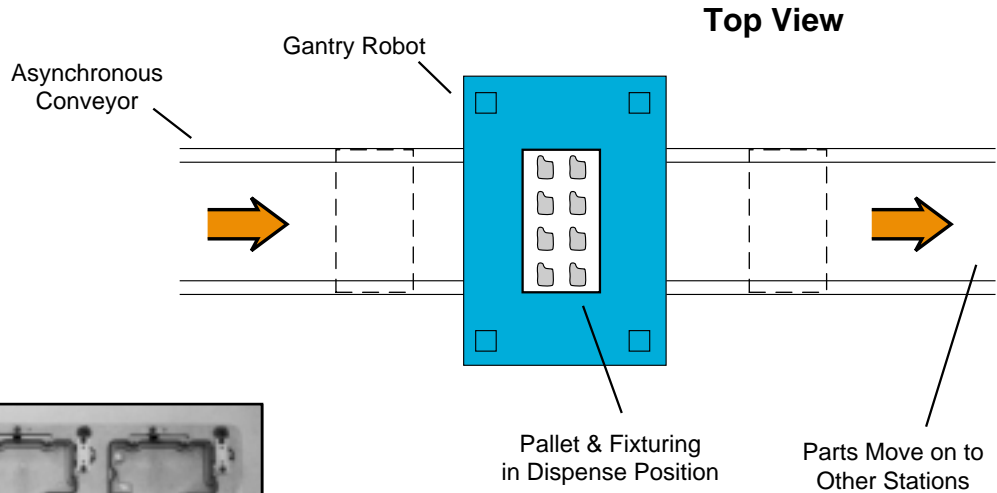
Project

Dispensing of a silicone adhesive onto aluminum Electronic Brake Control covers at one station of a fully-automated line.

Key System Features

- **Program-A-Spenser™** 3-axis gantry automated dispensing system.
Work envelope: 24"x12"x6"
- Material Delivery System: Pressurized cartridge with vacuum control
- Curing: Three-zone 18' electric convection oven
- Fully-Automated Asynchronous Conveyor
- Part Handling: Eight-parts per pallet
- Teach Pendant Capability

Schematic Overview of Automated Dispensing Application



A pallet of parts showing dispensed drops of adhesive

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. For more information on this application or other products and services, contact a Robotics Inc. Sales Representative:



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Process Specifications

Part	Aluminum Electronic Brake Control Cover
Material	Thermally conductive heat-curable silicone adhesive
Bead	Eight drops per part; ~ 3/16" dia.
Shot Volume	141 Microliters/shot
Material Supply	300 ml Cartridges
Jobs / Hour	480
Cure Time	15-30 min.* @ 266°F

*Other applications have considerably shorter cure times.

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

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