ROBOTICS, Inc.

DISPENSING SUMMARY

APPLICATION

Automotive RTV Gasketing
- **Differential Covers**

Objective

The customer needed an off-line automated system to apply a room temperature vulcanized (RTV) silicone gasket around the perimeter of multiple differential housing covers.

Dispensing System

CR Series Program-A-Spenser™ Automated Dispensing System

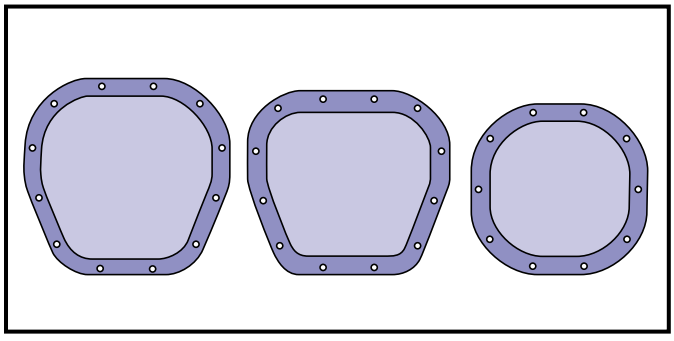
Dispensing Material

RTV Silicone
- Single-component material
- Room-temperature cured

Sequence of Operations

1. Operator selects part.
2. Operator adjusts quick-change fixture pins.
3. Operator loads two parts on station one of dial table and hits and releases two palm buttons.
4. Dial table indexes 180 degrees.
5. CR Series Program-A-Spenser™ dispenses on two parts while operator unloads/loads parts from station two of dial table.
6. Repeat steps 3-5.

The CR Series Program-A-Spenser™ with fixtured dial table and dual dispense guns. This application uses a custom controller. The Allen-Bradley 9/230 controller is standard with our B and CR Series dispensing systems.



Multiple sizes and shapes of differential covers for bead application

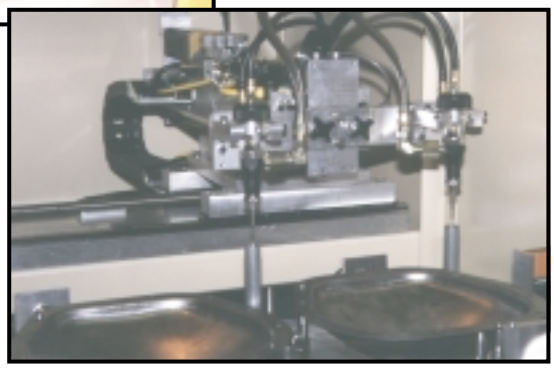
Key System Features

- **CR1818 Program-A-Spenser™** 2-axis automated dispensing system with up/down z-axis. Work envelope: 18" x 18" (x-y)
- Ball screws and DC servo motor drives
- Part-presence and load fault sensing
- Light curtains and operator safety guarding
- Adjustable part fixtures for multiple-part variations
- Dual gun dispensing (individually adjustable) and pneumatic control package
- Nozzle immersion (prevents material from curing in nozzles when dispense system is idle)
- Complete system operational documentation

Customer Benefits

- This CR Series dispensing system offers highly accurate programmable dispensing motion for an 18" by 18" area.
- With a dial table dispense area configuration, two parts may be loaded/unloaded while dispensing occurs on two other parts.
- The fixture pins on the dial table are quickly and easily adjusted for the added flexibility of dispensing on multiple-part shapes and sizes.
- The System is highly durable and is designed for high volume continuous dispensing.

Dial table with quick-change fixture pins.



Dual dispense gun mechanism in position directly over oil bath, ready to begin the dispense sequence on parts in the foreground.

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. Dependent 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 hundreds of 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	Differential covers (multiple sizes) Approx. dimension ranges (in.): 8.8 x 8.8 x 3 - 10.25 x 10.25 x 3 (L x W x H)
Material	Automotive Sealant (RTV Silicone)
Bead Dimensions	~ 41" Length (varies per part); 1/8" high; 3/32" wide
Dispense Time	6.6 seconds per two parts
Part Delivery	Off-line manual part loading/unloading
System Footprint	60" wide by 85" deep

* Values are based on customer's specific requirements and do not necessarily indicate optimum values. 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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