

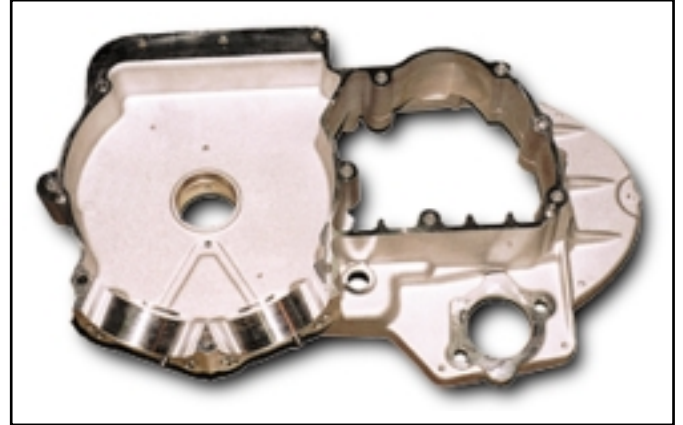


APPLICATION

Automotive RTV Gasketing
-Engine component

Objective

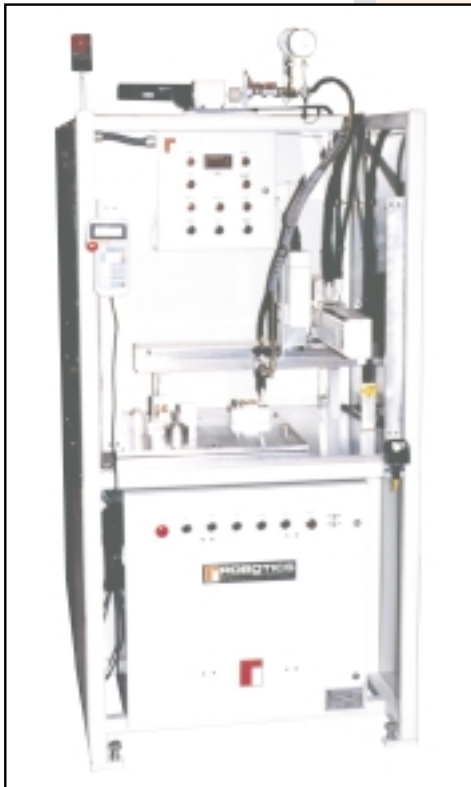
The customer needed an off-line semi-automated system to apply a room temperature vulcanized (RTV) silicone gasket around the perimeter of an engine component.



One of multiple engine components to receive a dispensed bead

Dispensing Material

Automotive Sealant (RTV Silicone)



Three-axis BT 1000 automated dispense system

Key System Features

- **BT 1000** 3-axis automated dispense system with teach pendant operator interface
Work envelope (mm): 500 x 400 x 150 (x-y-z)
- Material delivery system: Patented one-part **Program-A-Flow™** continuous-output meter/mix system
- Part-present and load fault sensing
- Light curtain & safety guarding
- Hi/Lo pressure monitoring
- Single 5-gallon material supply pump
- Nozzle maintenance system

Sequence of Operations

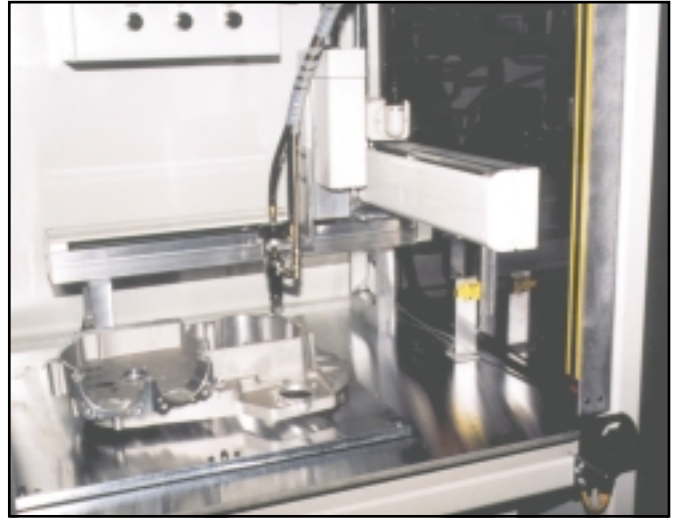
1. Operator loads part onto fixture
2. Operator initiates dispense cycle by means of optical finger switch
3. When dispense cycle is complete, operator unloads part
4. Operator begins sequence again

Typical Applications

This dispensing system comes in various models. Other applications may be fully-automated, have different configurations, use plural-component materials, or have other significant differences. Some applications best-suited for our BT 1000 Dispensing Systems are electrical / electronics housing gasketing, connector potting, and small automotive component gasketing.

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.



Close-up of three-axis motion assembly, dispense nozzle, and part in its fixture

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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Electrical/Electronics Sales Inquiries

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Process Specifications*

Part	Engine component Approximate dimensions: 21" x 11 1/4" (L x W)
Material	Automotive Sealant (RTV Silicone)
Bead Dimensions	~ 32" Length; 1/4" dia., ± 10%
Dispense Rate	32" per minute
Production Rate	~ 22 jobs per hour
Part Delivery	Off-line system, with manual part load/unload

* 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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