



APPLICATION

Contract Gasketing
-Timing Chain Cover

Objective

The customer needed to dispense a Liquid Silicone Rubber (LSR) gasket for a trial run on a small number of parts.

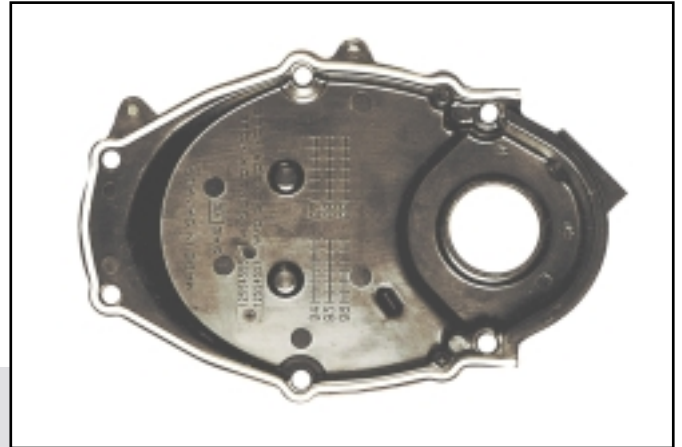
Dispensing Material

Liquid Silicone Rubber

- Two-part material
- 1:1 mix ratio

Contract Gasketing

The contract gasketing acted as a trial run to determine material performance for a future high volume dispensing application. Robotics, Inc. performed the run in-house with customer representatives on hand to monitor and record the process and results. The trial run results met or exceeded all initial customer requirements. Lab and fleet testing are yet to be performed.



Timing chain cover showing the bead around the majority of the cover's perimeter

Typical Applications

Robotics, Inc. contract gasketing services are ideal when high precision and bead consistency are required, but production volume doesn't warrant a dispensing equipment purchase. A wide variety of applications are possible. A few of the endless examples include electronic assembly, connector potting, motor gasketing, headlamp sealing, steam iron gasketing, appliance component gasketing, medical instrument sealing and potting, glass sealing, etc.



A single gantry "dispense-and-cure" system like this was used to dispense and cure the 2-part LSR bead. The system shown here is a dual Robotics, Inc. GC 1000 gantry variation for another application (gantries center and right). A Robotics, Inc. conveyORIZED CNV oven cures and cools the parts (left).

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, the equipment used, or other products and services, contact a Robotics Inc. Sales Representative:



ROBOTICS, Inc.

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Process Specifications*

| | |
|-----------------------------|---|
| Part | Timing chain cover Approximately 13" x 8.5" x 2" |
| Production Run | 100 parts |
| Total Run Time | ~ 1 hour; once process was fully running, the production rate was over 150 parts per hour |
| Bead Dimensions (mm) | ~ 660 length 2.3 height above flange (+ .5, -.2) |
| Cure Time | 5 minutes at 350°F |
| Part Delivery | Manually loaded |

* 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.

Products & Services

Robotics, Inc. provides complete "dispense-and-cure" automation services. Following is a partial list of our products and services:

Dispensing Systems

- BT 1000
- GC 1000
- B Series
- CR Series
- ShapeMaker™

Ancillary Systems & Equipment

- CNV electric curing ovens
- UV curing ovens
- Program-A-Flow™ meter/mix systems
- Pressure monitoring systems
- Conveyors
- Pressure monitoring systems
- Pick-and-place automation
- Conveyors and transfer systems
- Pressure monitoring systems

Contract Dispense-and-Cure services System Integration

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

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ROBOTICS, Inc.

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