

Company

Lamson & Sessions

Situation/Challenge

- To eliminate the shortcomings of manual operation, including excessive time, various quality levels, high labor costs and numerous applications, Lamson & Sessions determined robotic automation would provide the flexibility and precision required to meet production demands.

Solution

- **Automation**
 - A FANUC robot is equipped with HandlingTool application software to handle the dispensing of the FIP gasket. The robot has an extremely large work envelope and does not require a significant amount of floor space.
 - The robot offers floor, invert, wall, shelf and angle mounting, allowing better access to unusual work pieces.
 - A FANUC tabletop robot offers maximum loading capabilities in the mini-robot category. It is used in a variety of applications such as packing, packaging, picking and material handling.
 - The mini robot's small size and extensive capabilities make it the perfect solution for industrial applications or laboratory environments.
- **Process**
 - An operator manually loads parts into the indexing dial system, and once the tooling location is complete, a robot forms the FIP gasket.
 - Upon completion of the gasket, the dispensing robot stops and the table indexes to the unload position where the mini robot transfers parts to the curing oven conveyor.
 - All three stations function simultaneously, load-dispense-unload.
 - Finished products exit the curing oven and are transferred into completion storage bins, sorted and prepared for shipment.

Result

- Sizeable cost savings with the elimination of the previous cut foam gaskets.
- Consistent and reliable automated process significantly increases product quality.
- Flexibility to handle 13 different configurations and additional parts in the future.