

Problem

An Automotive manufacturing plant urgently required a flexible manufacturing automated machine solution for applying liquid gasket sealant to their engine oil-pan sealing face. The oil-pan sealing channel design had changed from rectangular point-to-point geometry to a complex curved geometric pattern for their new engine upgrade. The existing machine could not be programmed to follow the geometry of the new part.

Solution

Parker Thailand ATC distributor Auto-Flexible Engineering became involved in the project and knew they could rapidly design and integrate a complete automated solution. They selected a 6K motion controller for 2D geometry and ACR9000 for 3D applications, Gemini GV Drives, J series servo motors, and the Compucam software package. They packaged the system within a sleek 1200 x 1200 x 1900mm machine base enclosure saving valuable floor space. The maximum cycle time was 15 sec / piece in automatic mode. The machine also has flexibility of importing DXF, HPGL and G-Code Direct interface. The customer was very impressed with this machine and, since the prototype, has specified over 20 machines. The machine is very flexible and robust with great performance. Other customers have purchased multiple machines for their facilities and Auto-Flexible is offering these systems for sale to interested parties.



Success Factors

- Parker Product Reputation
- Technical Design and Support Capability of Parker Thailand ATC
- Advanced programming features
- Flexible part geometry importation capability
- Very smooth curve motions
- Compact Size
- Local Support

Customer Value

- The customer was able to integrate this machine into the production line and qualify it before the plant SOP production date.
- Start up time, programming and learning cycle was reduced by 50% compared to the old system
- The acquisition cost was 18% less than the competitive solution.

Contact

preecha.kuhakarn@parker.com
tara.gusolchattum@parker.com
jim.novak@parker.com

FEATURED PRODUCTS

6K Motion Controller, J Series Servo, Gemini GV Driver

MARKET

Automotive

COMPETITOR

IAI, Various Japanese Competitors

CUSTOMER

Confidential

DISTRIBUTOR

Autoflexible Advanced Engineering www.autoflexible.com

