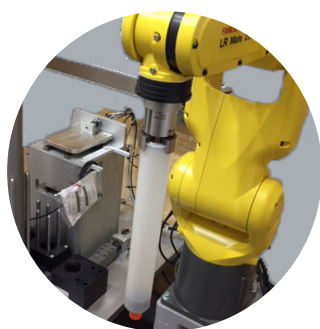


4 AUTOMATED SEALANT & ADHESIVE DISPENSING APPLICATIONS

PAR's automated sealant and adhesive dispensing systems are specifically designed with demanding applications in mind. Leveraging proven technologies, paired with our adaptive manufacturing processes, PAR delivers automated sealant and adhesive systems that meet your stringent requirements and create monumental efficiencies. Whether configured as a single robot with auxiliary axes, or as multiple cooperative robots, our automated sealant and adhesive systems can include active seam tracking, integrated process controls, and quality verification as required.

BENEFITS OF AUTOMATED SEALANT AND ADHESIVE DISPENSING AND APPLICATION

- Significantly improves cycle time, reduces costs and improves productivity
- Configurable fixturing eliminates need for restraint fixtures and accommodates families of parts
- Capable of handling the many challenges created by variabilities that occur in sealant applications



INDUSTRIES SERVED



General Industrial,
Structures and Bridges



Transportation



Aerospace



Space

TECHNICAL INFORMATION

Methods

- Fillet
- Edge
- Lap
- Cap

Features

- Servo dispenser
- Application of varying sealant bead types and sizes
- Disposable fluid modules
- Family of disposable nozzles and brushes
- Brush modules for pre-cleaning and application
- Robotic and rail motion systems
- Process end effectors with laser scanners
- Automatic exchange and management of nozzles and cartridges
- Cartridge management systems or mix-on-demand systems
- Tailored solutions to support custom needs

Materials

- Premixed cartridge sealants
- Two component materials
- Mix-on-demand materials
- Poly-sulfide sealants
- Adhesives
- Epoxy-based moldable plastic shim

Supporting Technologies

- Patented Adaptive Manufacturing/Artificial Intelligent CAM and part management
- Real time seam and process control
- Real time post seal inspection
- Safe error and fault handling
- Automated calibration, part localization, nozzle exchange, tool exchange, tip management, and tool and nozzle identification



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