



Calvary Automation Systems, Inc.



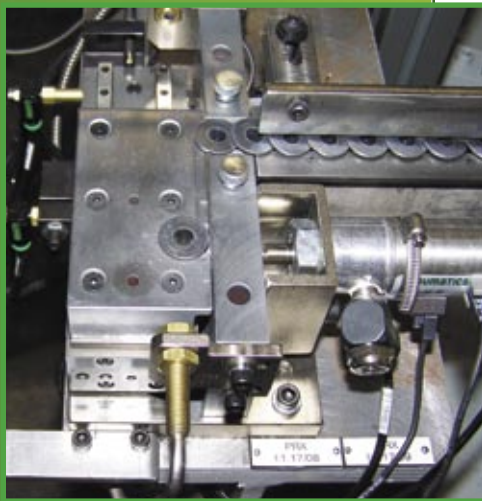
RivetNuts & Fasteners



Bulk Feeding Vibratory Hopper



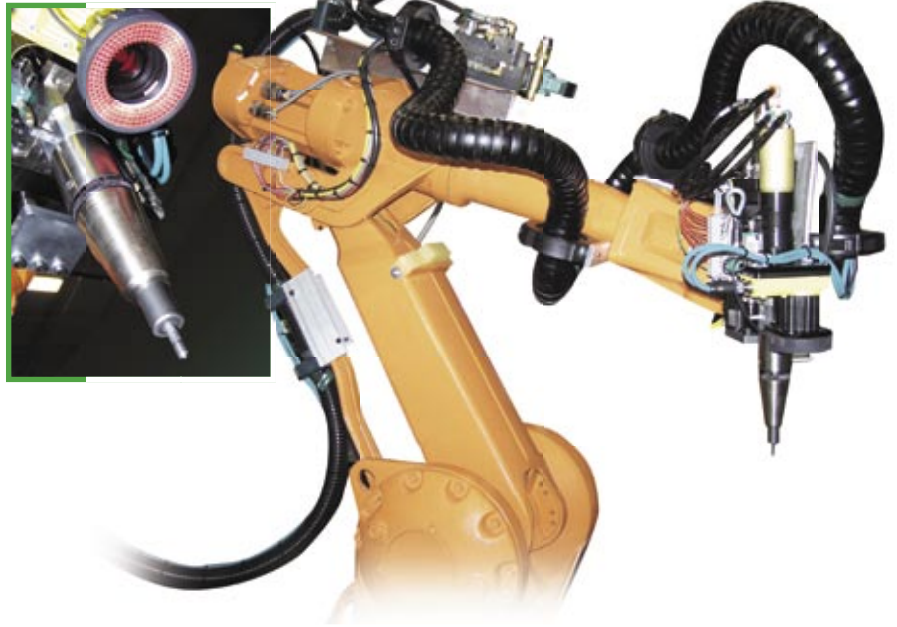
Feeder Bowl with Level Sensing



Feeder Escapement, Part Singulation

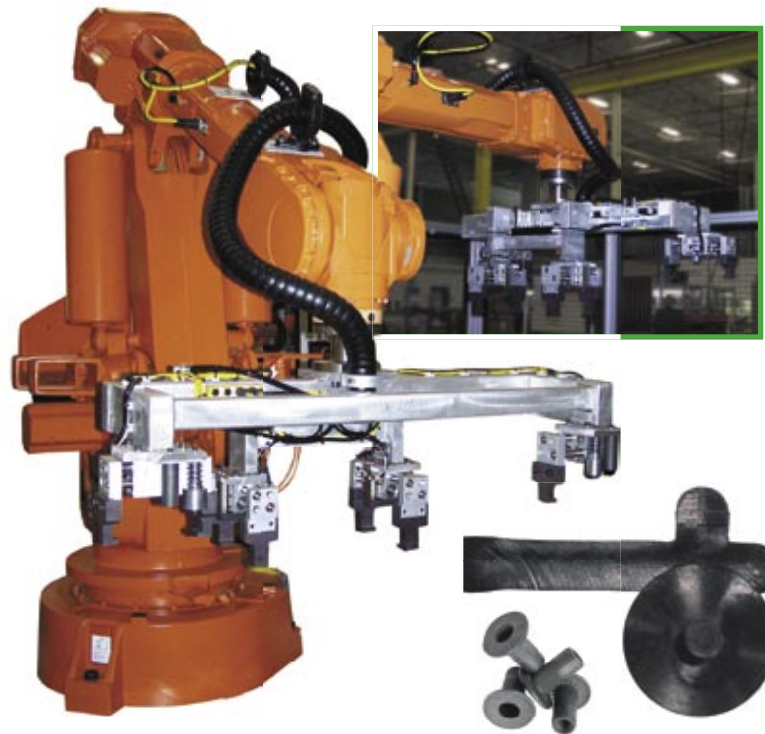


Automotive Front End Modules (FEM's)



Robot End Effectors

- Reversing high speed air motor
 - Hydraulic cylinder with pull to depth sensor and adjustable stroke control
 - Easy mandrel exchange
 - Collapse pressure verification
- Mounting kit
- Hydraulic swivel fitting
- Robot end effector, complete with vision inspection system



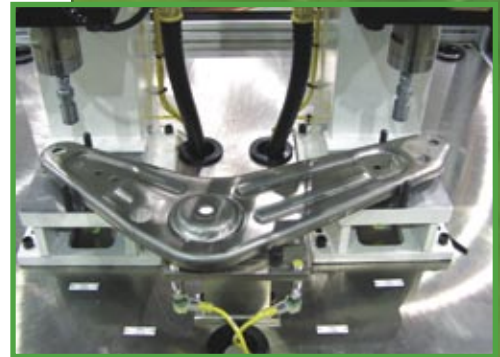
Degating Robot

- Unload product directly from mold machine
- Degate part and automatically load into fastener assembly cell



Lean/Automation

- Complete design and build capabilities
- Remote state
- Manual or auto feed systems
- PLC control
- Complete installation verification
- Improved quality cycle time



Common Mirror-Imaged Fixtures



100% Error-Proofed Installation

Tiger Hand Tool

- Fully electric tool with hydraulic pull to pressure verification
- Requires 110V AC utilities only
- No air supply required, significant cost savings
- Standard 2,200 rpm electric tool with 10' umbilical
- No variation in fastener installation due to fluctuations in air quality or pressure
- No variation in fastener installation due to pneumatic logic, vane wear, or valve spring actuation
- Red, yellow, and green LED's; providing ergonomic validation to the operator



J-Clips and Compression Limiters



English	Metric
10-24	M4
10-32	M5
1/4-20	M6
5/16-18	M8

Studs and RivetNuts Fastener Sizes

*Other sizes available



Calvary Automation Systems is recognized as a leading manufacturer of special machines, turnkey automated systems, and specialized fixturing. Our commitment to quality and fast response is the heart and soul of our business growth. We deliver machines, tooling and software solutions with quick delivery dates and difficult design tasks that most companies can't meet. We are a dedicated world-class and global supplier of a wide variety of automated machines and machined components. Many of Calvary Automation's customers are in the medical device, electronics, business machines, and automotive industries.

The focus on the customer's needs is fully supported by Calvary's sophisticated project management system, where emphasis is placed on communication throughout all phases of the project. From the design to the debug stage of equipment, customers are fully involved. Target dates are reviewed bi-weekly to ensure on time deliveries and job tracking is fully documented.

Our mission has always been to provide our customers with benchmark quality, cost, and delivery. We pride ourselves on providing exceptional service during and after product delivery.



Calvary Automation Systems, Inc.

*45 Hendrix Road
West Henrietta, NY 14586
Phone: 585-321-5055
Fax: 585-321-5054
www.calvauto.com
E-mail: info@calvauto.com*