

Reaching New Heights in Automated Technology

**Flexible  
Automation  
Inc.**



Robotics • Special Machines • Vision Systems

[www.flexautoinc.com](http://www.flexautoinc.com)

# Solutions

## Solutions

for increasing productivity



**Flexible Automation** is a solution provider armed with over two decades of experience. Our mission is to provide our customers with the means to overcome their manufacturing challenges by developing the best possible automation solution. To accomplish this goal, we strive to rapidly produce an affordable yet innovative automation system that is built with precision and robustness.

We recognize the need for execution and timeliness in a marketplace of decreasing lead

times. Flexible Automation partners with our customers to complete the project "in-step" with our customers' production requirements.

Flexible Automation excels at integrating robotics and vision systems to create a production machine that will increase our customers' productivity. Our facility near Flint, Michigan puts us in an excellent position to serve the needs of many Midwest industries.



**Flexible Automation** has been an authorized systems integrator of the Epson robotics line since 1984. We are also authorized integrators for companies such as DENSO, Fanuc, Yamaha, ABB, Nordson Dispensing and Cognex Vision, which allows us to offer complete solutions to our customers. Our customer base is comprised of companies from many industries including Automotive, Electronics, Medical and Consumer Products.

### PLC Experience

Allen Bradley  
GE  
Siemens  
Keyence  
Omron  
Mitsubishi  
Modicon

## WHAT YOU CAN EXPECT FROM FLEXIBLE AUTOMATION...

### Proposals

Formal documents complete with concept drawings and cycle-sequence flow.

### Project Administration

Single point of contact providing bi-weekly updates including gantt charts.

### Design & Assembly

Utilizing SolidEdge® and AutoCad® to design machines that are built standard with Blanchard ground and nickel-plated top plates. Guarding is typically extruded aluminum with Lexan® panels.

### Machine Run-Off

Machine dry run prior to a formal run-off at our facility and a formal run-off at the installation site.

### On-Site Installation

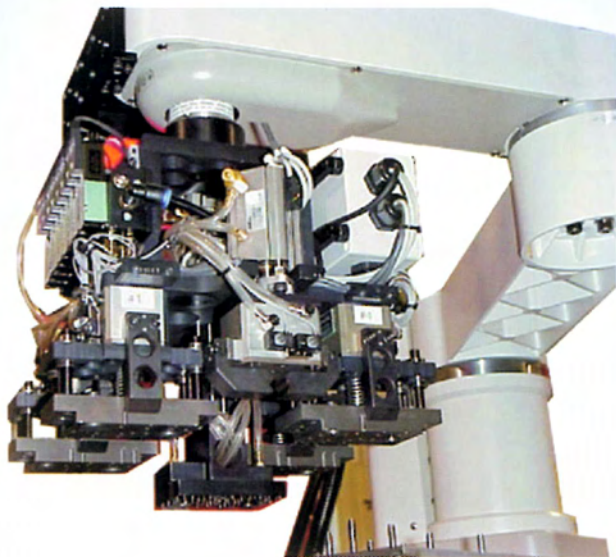
Includes commissioning of the machine, formal training and complete documentation and continuing support.

### Service, Service, Service

Our service is second to none. We respond to our customers' needs without delay.



# Innovation is our foundation



Should your needs be a single or multiple robot assembly cell, a stand-alone piece of dedicated automation, insert molding of small components, adhesive dispensing, vision inspection or guidance, please give us a call or, better yet, pay us a visit! We will review your needs and provide you with a formal proposal. When choosing Flexible Automation to build your automation project, you can be assured that your machine will be designed with innovation, built with quality, programmed by factory trained technicians, delivered in a timely manner, and supported for as long as you may require.

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# Integration

## Integration

of the most advanced robotics,  
special machines and vision systems

### OUR SOLUTIONS INCLUDE ...

**Small Component Assembly** employing dedicated tooling and robotic manipulation, single axis to six axis of programmable control, rotary dials and power-&-free conveyors.

**Push-nut Clip and Rivet Insertion** utilizing patent-pending end of arm tooling. Clips and rivets can be fed, installed and verified for presence.

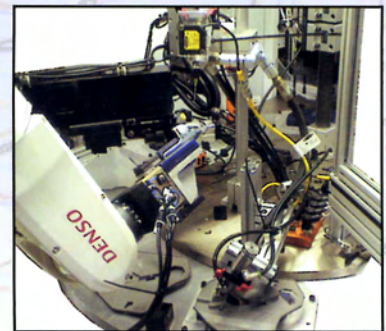
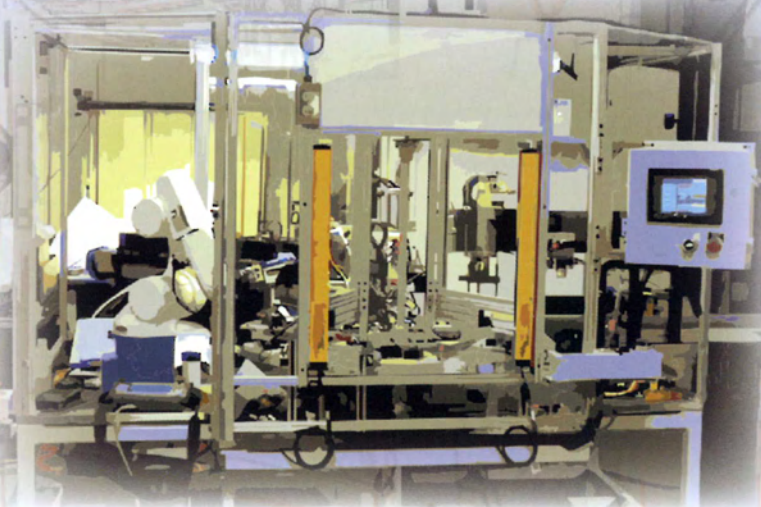
**Vision Inspection and Guidance** incorporating single or multi-camera systems, monochrome and color processors, fixed mounting or mobile positioning.

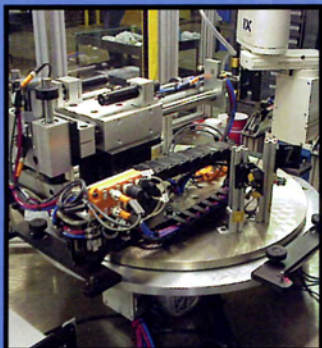
**PCB Component Attachment** utilizing traditional soldering equipment, ultrasonic welders, robotic placement and crimping.

**Programmable Material Dispensing** through integration of hot-melt, silicon, U.V. & C.A. adhesive dispense equipment.

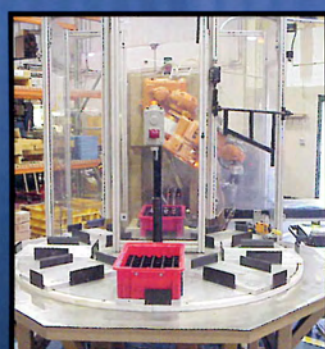
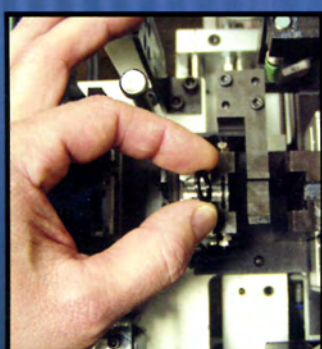
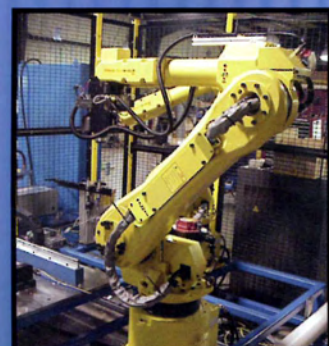
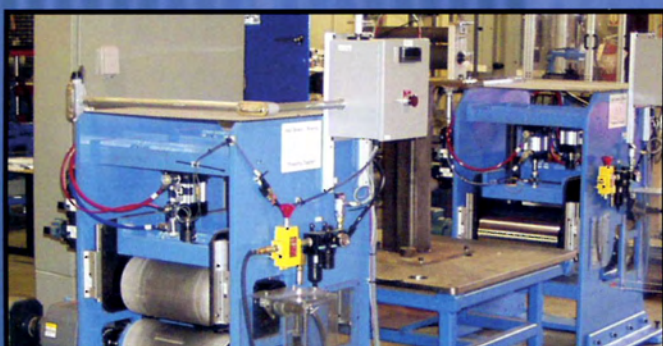
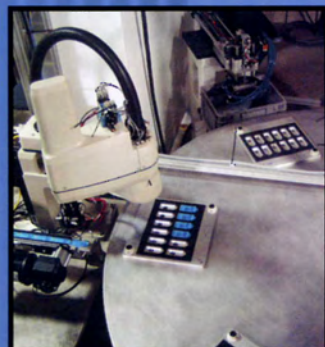
**Injection Mold Loading and Unloading Processes** featuring robotic insert loading equipment with vision system verification and mold unloading operations including de-gating and gaging.

**Data Acquisition and Testing Operations** including integration of hi-pot, signal quality, vacuum/pressure, and force sensing equipment.





- Single or Multiple Robot Assembly Cells
- Insert Mold Loading
- Adhesive Dispensing
- Vision Inspection & Guidance
- Lean Manufacturing Cells
- Stand-Alone Dedicated Automation
- Automated Soldering & Welding
- Push-nut Clip & Rivet Insertion
- Deflashing & Deburring
- Door Handle Assembly Machines
- Heat-Staking
- Mig & Projection Welding



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