

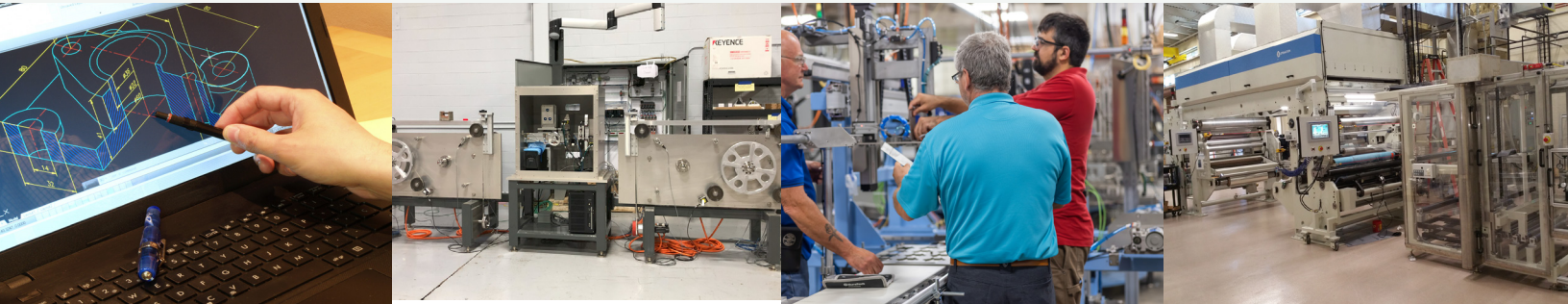


DESIGN AND BUILD SERVICES

Custom Machine System Design and Production Services

Our expertise in automated systems ranges from simple single-axis mechanisms and capital equipment retrofits to sophisticated modular inspection, assembly, and testing systems. We offer comprehensive turnkey solutions, guiding your project from initial concept to detailed design, fabrication, procurement, and assembly—all handled by our skilled in-house team. This approach ensures streamlined installation and equipment commissioning at your site. Our team is proficient in industry-standard PLCs and PC platforms, enabling us to deliver technically robust and tailored solutions.





Capabilities

- Conceptual Design and Prototype Development
- Design for Manufacturability
- Design for Reuse and Machine Repurposing
- Design for Material and Wear Optimization
- Product Design
- Metric and Imperial Design and Drafting
- Tolerancing (Geometric)
- Actuation Design and Sensing
- Fastening, Joining, and Assembly
- Automated Assembly
- Machine Engineering
- AutoCAD 2D and 3D, SolidWorks, and Unigraphics
- Capital Equipment Retrofits
- Quality and Throughput Improvements
- Robot and Cobot Build Stations

Project Examples

- Facilitated skid-mounted testing stands for simultaneous stress testing
- Constructed and built custom machinery to handle and slit thin ceramic material like a flexible web
- Produced web lines to manufacture touch sensors for handheld devices and smartphones
- Used high-precision tooling to secure product samples for interferometer testing
- Created a robotic assembly machine for precise part inspection and assembly
- Designed, built, and automated a part washer that queued, loaded, unloaded, and sorted parts as one automated process
- Invented and implemented a system for batch material handling, blending, and transfer of powdered materials
- Produced a 15-station rotary dial to feed, position, assemble, and online test automotive components
- Streamlined complex systems integration for automatic assembly machines

INDUSTRIES SERVED:

- Hydrogen & Alternative Fuels
- Specialty Chemicals
- Decarbonization Technologies
- Food & Beverage
- Web Handling
- Healthcare

LOCATIONS:

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Rush, NY 14543
- 📍 1600 Lexington Avenue
Suite 104
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