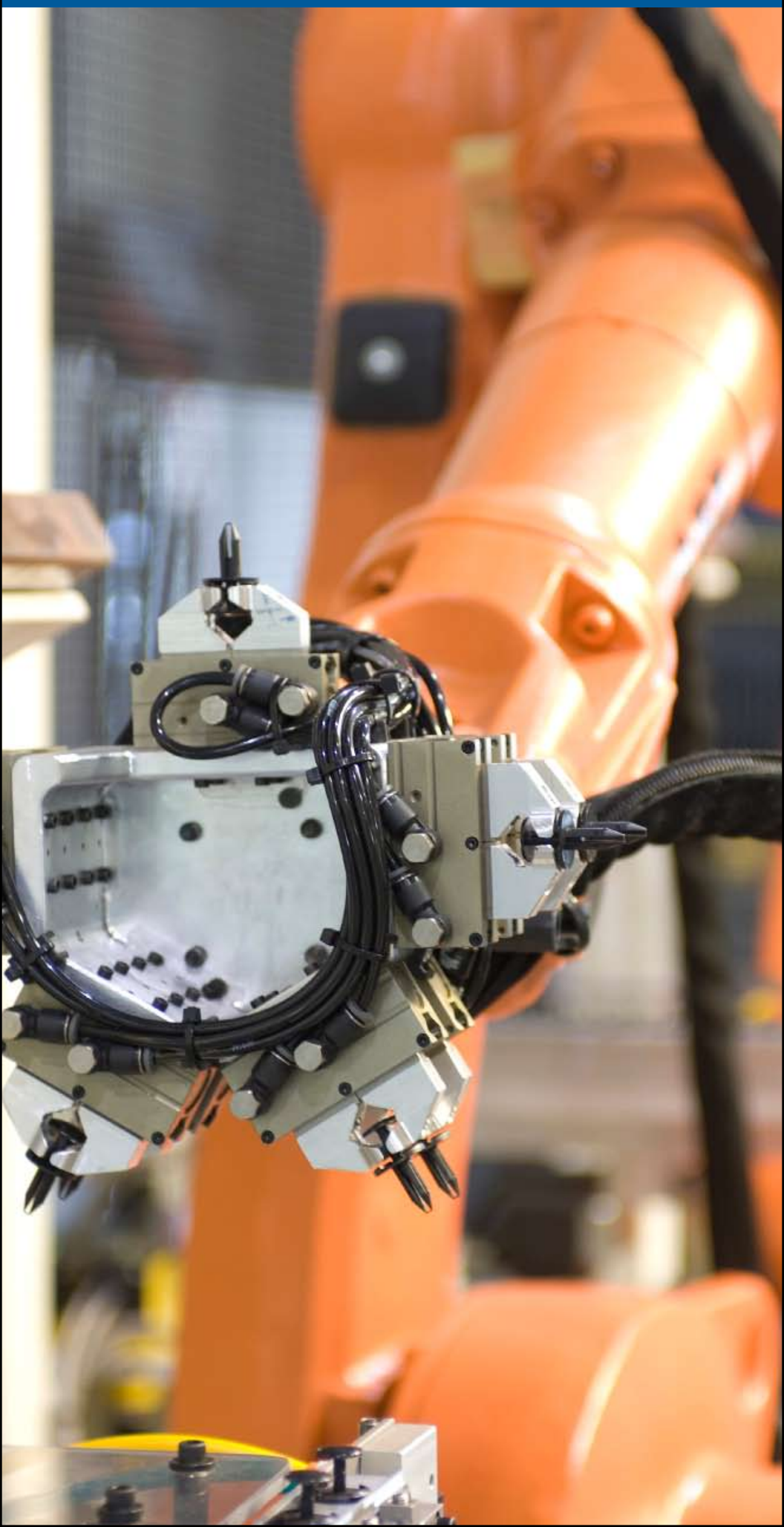


Automated Assembly Solutions

 for Automotive Sustainability Applications





The logo features a stylized green swoosh above two green circles, resembling eyes or a pair of glasses.

You are looking to achieve. . .

Higher manufacturing speeds, tighter integration between machines, 24/7 operations and more. While environmental requirements and cost pressures are forcing you to increase your productivity and reduce labor costs, you must continuously optimize processes in order to achieve sustained improvements in competitiveness. You need Epic Equipment and Engineering Custom Automation Assembly Solutions.

Epic Equipment & Engineering is a full-service provider of custom assembly automation and test systems that provides design, engineering, manufacturing, assembly and support services specifically for automotive sustainability assembly applications. By automating and optimizing your battery assembly processes, we can boost your operating efficiency and drive down your unit cost of production and labor.

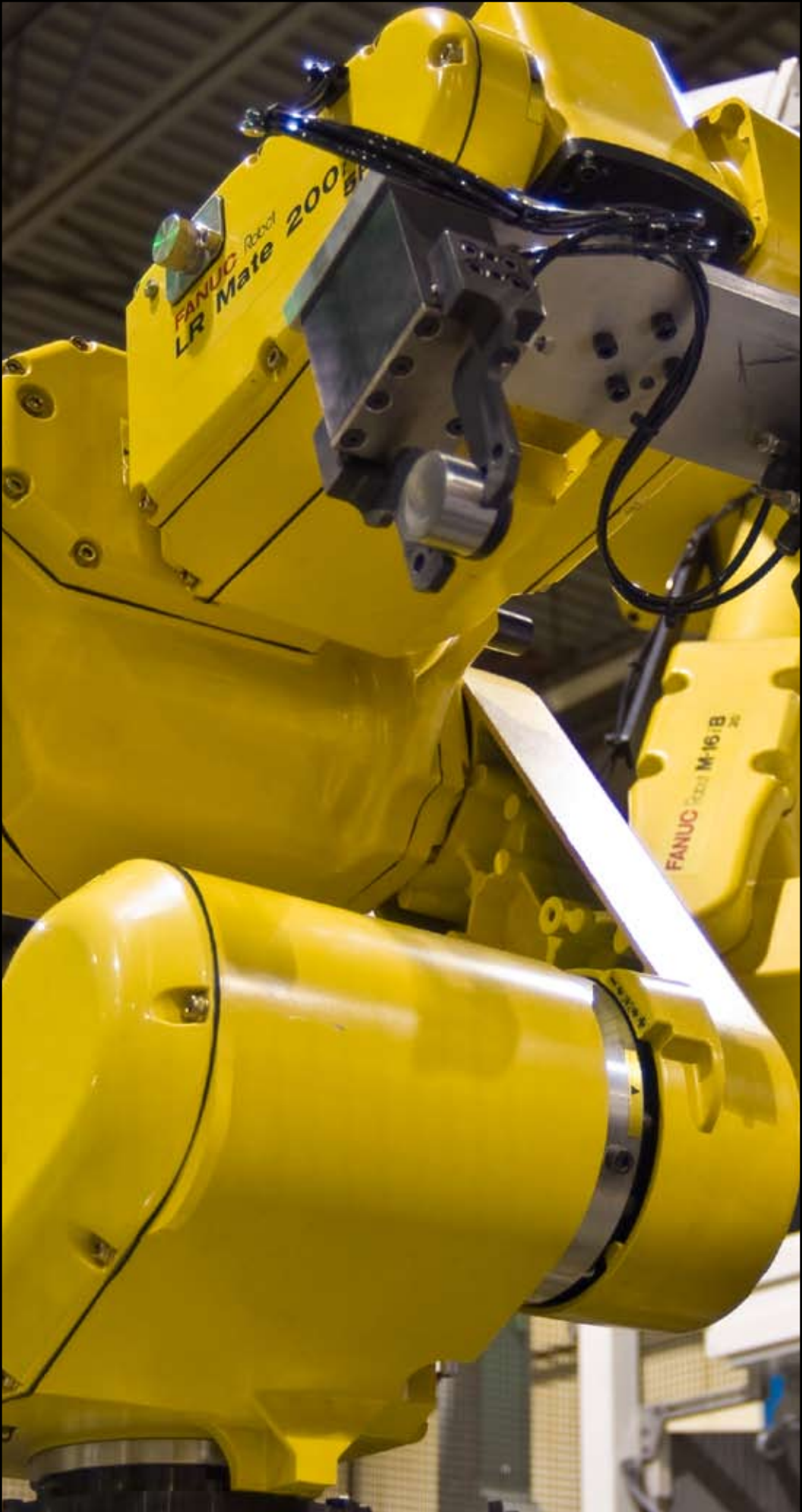
Leading automotive manufacturers and suppliers implement Epic Equipment's solutions to achieve the highest levels of innovation and business value. Epic Equipment's solutions are built on a rich set of knowledge management, process management and collaboration capabilities that Epic Equipment has derived from its experience as a leading provider of custom assembly automation solutions.



Customized Services to Boost Performance and Profit

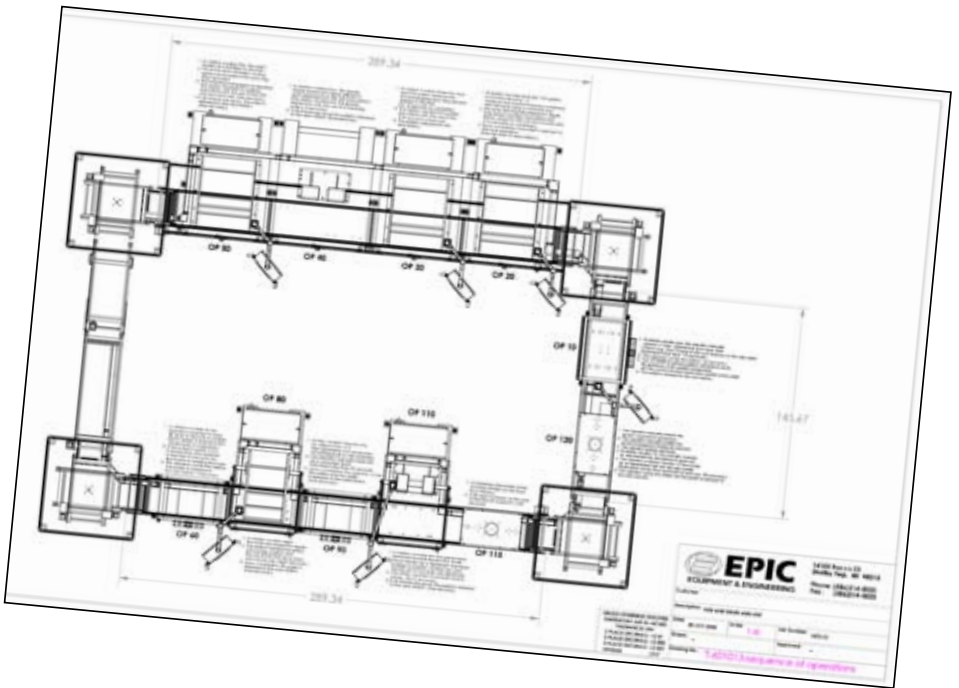
- Design and Engineering
- Manufacturing and Assembly
- Service and Support
- Testing and Approval

Epic Equipment and Engineering has the technology and expertise to operate and maintain components of your process that fit our core competencies, while you concentrate on your core business. We function as a strategic partner, offering customer outsourcing services that reduce your risk and increase your profits.





Design and Engineering



Well engineered assembly equipment is a necessity to improve efficiency and compete in a global market. Epic Equipment & Engineering can design, build, install, and service custom equipment to help your plant work smarter. We use off-the-shelf equipment and open standards whenever possible to create solutions that can evolve over time. Our solutions can be designed to meet global regulations and required certifications including UL, CE, ANSI and others. We understand the impact of regulatory requirements and design equipment with validation and compliance in mind.

Epic Equipment & Engineering designs turnkey machines, enclosures, electrical systems, mechanisms and process controls. Our custom equipment is designed to be easy to install, operate, and maintain with minimal engineering support. We lower your cost of ownership by minimizing training, operator intervention, downtime, and revalidation.



Manufacturing and Assembly

Epic Equipment & Engineering maintains world-class manufacturing on-site. This assures our customers that Epic has full control over the quality of the complete equipment solution that you will receive. Our assembly professionals are seasoned craftsmen that focus their efforts on the final product.

Working prototypes can be created for the designers so they may test their concepts before incorporating them into their designs. Changes and improvements to the process or mechanisms can be made quickly and cost effectively.

Each assembly is carefully assembled from drawings created during the design stage and inspected by the design engineer. If changes are required during the assembly stage of the project, they are carefully documented so that the drawings and manuals can be updated before the machine is shipped.

Experienced, highly skilled electronic assemblers are able to complete full wire assemblies from schematics created during the design stage of the machine manufacturing project.





Testing and Approval

The final steps include production dry cycling. This process evaluation is measured for consistency specification. We identify any area for premature component failure, and contribute to optimization. Your equipment will also benefit from a controlled debug, which is aided through our in-house manufacturing and assembly abilities.

Epic Equipment & Engineering provides production assistance services to facilitate the implementation of our new systems into production. Epic personnel can accompany your operators and maintenance staff at your facility during the “ramp-up” production stage. Our personnel operate the system and continue training your operators and maintenance staff to avoid downtime due to unfamiliarity with the system. This service is provided on request and is quoted as an option.

During the production assistance stage our mechanics and automation specialists help your employees operate the new system at your premises. Because our technicians have made the final adjustments to the assembly system during the debug and testing stages, they can provide your staff with the additional insight to optimize the system’s performance.



Service and Support

Epic Equipment & Engineering machines are known for minimal downtime and a high level of operational reliability. If you do need assistance, we provide quick, competent and uncomplicated service and support.

Partner with Epic Equipment & Engineering for:

- Dedicated after sales service department
- On-site training or repair
- Remote support via modem - service engineers provide remote software maintenance for our assembly systems. Our systems incorporate the communication equipment needed to allow remote access
- In-house supply of standard system components
- Highly skilled and trained service engineers
- Spare parts package
- Service and preventive maintenance contracts





Automation and Robotics

Epic Equipment & Engineering designs fully automated control systems that incorporate industrial robots, vision systems, custom hardware, and quality control measurement techniques.

Our robotic automation systems encompass all forms of robotics including: pick and place, Cartesian, SCARA, and 4 and 6 axis robots. Robots are ideal for automating applications such as palletizing, machine tending, material handling, packaging, cutting, material removal, welding and assembly.

Epic Equipment & Engineering designs semi- and fully-automated devices for manufacturing lines. We team with you to integrate quality control systems designed to continuously improve product quality and increase efficiency.

Partner with Epic Equipment & Engineering for:

- Industrial robots - 4 and 6 axis
- Vision systems
- Laser displacement measurement
- Motion control systems
- Material handling
- Pick & place robots
- Laser marking and processing
- Bar code scanners
- Non contact measurement
- Indexing systems
- Assembly machines
- PLC and PC machine control
- Servo & stepper motors
- Material joining systems
- Packaging systems
- Engineering services

Torque and Tightening

Epic Equipment & Engineering produces manual, semi-automatic and automatic machines to feed and drive fasteners. These systems incorporate air, D/C and Servo driven screw and nut drivers. Depending on your application we can recommend the appropriate control scheme and level of automation bolt tightening

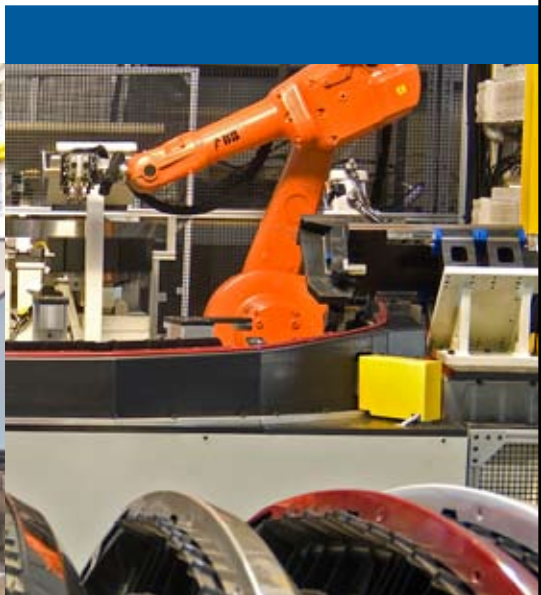
- Screw Feeding and Driving
- Fastener Counts and Error Proofing
- Torque Verification

Welding and Bonding

Epic Equipment and Engineering provides the latest welding and bonding technologies to ensure optimum performance such as:

- Ultrasonic Welding
- Hot Air Staking
- Vibration Welding
- Hot Plate Welding
- Spin Welding
- Adhesive Bonding Systems





www.EpicEquipment.com

