

TURNING COMPLEX ASSEMBLY INTO RELIABLE AUTOMATION

Manufacturers face growing pressure to increase throughput, maintain quality, and scale production—often amid labor shortages and complex assembly processes. Automating these multi-step environments requires more than equipment; it demands experienced system integration.

MWES designs and builds custom assembly automation that modernizes production lines and delivers measurable results. From lights-out manufacturing to ergonomic, human-centered assembly integrated with robotics and advanced controls, our solutions improve reliability, increase throughput, and drive strong ROI for manufacturers of all sizes.

Why Choose MWES?

- ◆ **Proven Expertise** – 30+ years delivering complex, multi-process automation systems
- ◆ **Seamless Integration**– Designed to work with existing equipment, robotics, and software.
- ◆ **Full-Service System Integrator** – In-house engineering, fabrication, programming, installation, and support.
- ◆ **Custom Automation, Engineered for You** – Every system is designed around your product, process, and production goals.

WHY AUTOMATE WITH MWES?

- ▶ **REDUCE LABOR DEPENDENCE**
Automate repetitive and labor-intensive tasks to offset workforce shortages and allow skilled employees to focus on higher-value work.
- ▶ **INCREASE UPTIME & THROUGHPUT**
Engineered systems designed for consistent, high-performance production that reduce downtime and keep operations running efficiently.
- ▶ **ENHANCE WORKPLACE SAFETY**
Minimize manual handling, repetitive motion, and ergonomic risk to create a safer, more productive work environment.
- ▶ **SCALE WITH DEMAND**
Flexible, modular automation systems built to expand as production volumes, product mixes, or business needs evolve.
- ▶ **INTEGRATE SEAMLESSLY**
Automation solutions designed to work with your existing equipment, robotics, and software — without disrupting current operations.

ADVANCED ASSEMBLY & AUTOMATION SOLUTIONS

CUSTOM AUTOMATION ENGINEERED FOR REAL-WORLD MANUFACTURING

MWES delivers end-to-end automation solutions designed to improve productivity, reliability, and ROI. By combining deep engineering expertise with custom system integration, we help manufacturers move forward with confidence.



COMMON APPLICATIONS

ASSEMBLY LINE MODERNIZATION

- ▶ Upgrade existing manual or semi-automated assembly lines with robotics, ergonomic workstations, and advanced controls to improve efficiency, consistency, and operator safety—without disrupting current production.

AUTOMATED PACKAGING

- ▶ Integrate automated packaging systems for case packing, cartoning, palletizing, and labeling that increase throughput, reduce labor dependency, and ensure consistent, repeatable packaging quality.

FIXED AUTOMATION SYSTEMS

- ▶ Design and deploy dedicated automation systems optimized for high-volume, repeatable processes where speed, accuracy, and reliability are critical to production performance.

FLEXIBLE AUTOMATION SYSTEMS

- ▶ Develop adaptable automation solutions that support high-mix, low-volume production, quick changeovers, and evolving product requirements—ideal for manufacturers needing agility without sacrificing efficiency.

PART ASSEMBLY

- ▶ Automate precision assembly processes including fastening, press-fit, staking, bonding, dispensing, and joining—ensuring tight tolerances, repeatable quality, and improved process control.

HEAVY FABRICATION SYSTEMS

- ▶ Engineer robust automation solutions for large, heavy, or complex assemblies, incorporating welding, material handling, positioners, and fixturing to improve safety and productivity in demanding environments.

FULL PRODUCTION LINES

- ▶ Deliver fully integrated, turnkey production lines that combine assembly, fabrication, material handling, inspection, testing, and packaging—designed as a cohesive system from raw material input to finished product output.

READY TO RAISE YOUR MANUFACTURING TO THE NEXT LEVEL?

From modernizing existing assembly lines to delivering fully integrated production systems, Midwest Engineered Systems (MWES) provides custom automation solutions designed to improve efficiency, reliability, and scalability. Our engineering-driven approach ensures every system is built to solve real production challenges and deliver long-term value.

LET'S BUILD WHAT'S NEXT

Contact MWES to discuss how advanced assembly and automation can improve your production.



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