

SMARTER MOVEMENT. SAFER OPERATIONS. STRONGER PERFORMANCE.

Manufacturers face growing pressure to move materials faster, safer, and more efficiently—often with fewer available workers and increasing production demands. Manual handling, disconnected systems, and inefficient layouts create bottlenecks that limit throughput and increase risk.

As a full-service system integrator, MWES solves these challenges by designing and integrating custom, scalable material handling automation systems that streamline flow, reduce labor dependence, and improve safety. Each solution is engineered around the operation's unique needs and integrates seamlessly with existing equipment, robotics, and software platforms.

Why Choose MWES?

- ◆ **Custom-Engineered Solutions** – Every system is designed around your process, product, and production goals—never one-size-fits-all.
- ◆ **Trusted Engineering Partner**—30+ years of experience delivering thousands of successful automation solutions.
- ◆ **24/7 Service & Support** – Ongoing support to keep your automation performing at its best.

WHY AUTOMATE WITH MWES?

- ▶ **INCREASE THROUGHPUT & EFFICIENCY**
Automate repetitive handling and transfer operations to keep production flowing consistently and at higher speed.
- ▶ **ENHANCE WORKPLACE SAFETY**
Reduce operator exposure to heavy lifting, repetitive motion, and hazardous zones through fully automated systems.
- ▶ **LOWER OPERATIONAL COSTS**
Cut labor expenses, minimize product damage, and extend equipment life with precise, reliable material control
- ▶ **FLEXIBLE, SCALABLE INTEGRATION**
Seamlessly integrates into existing production lines or warehouse systems with room to grow as demand increases.
- ▶ **PRECISION & RELIABILITY**
Servo-controlled, sensor-guided automation ensures accurate part placement and positioning every time.

MATERIAL HANDLING AUTOMATION SOLUTIONS



COMMON APPLICATIONS

▶ AS/RS BUFFER SYSTEMS

Modular racking integrates with legacy facilities to buffer WIP, kit jobs, and co-locate tooling, fixtures, and materials for faster changeovers and higher throughput.

▶ AUTOMATED GUIDED VEHICLES (AGVs)

Safely transport materials through production lines and warehouses along predefined routes, improving consistency and reducing manual handling.

▶ CASE PACKING

Integrate easily with existing manual pack zones; systems can be running in as little as a day, providing smooth downstream conveyance to palletizing operations.

▶ PALLETIZING & DEPALLETIZING

High-performance robotic end-of-line systems for loading, unloading, and pallet handling—connecting seamlessly to upstream and downstream automation.

▶ HEAVY MATERIALS HANDLING

Purpose-built robotic cells move, rotate, and position challenging or oversized parts safely and repeatedly while improving throughput and precision.

▶ MIXED-LAYER PALLETIZING

Vision-guided robotics combine mixed SKUs or case types to build optimized pallets that enhance warehouse kitting and distribution efficiency.

▶ AUTONOMOUS MOBILE ROBOTS (AMRS)

Sensor-rich robots navigate dynamic environments and layout changes while safely operating alongside personnel—no fixed infrastructure required.

PARTNER WITH MWES FOR EFFICIENT MATERIAL HANDLING

MWES supports your material handling project from initial concept and layout development through installation, training, and ongoing service. Whether automating a single process or redesigning facility-wide material flow, MWES delivers solutions that perform today and scale for tomorrow.

LET'S GET MATERIALS MOVING

Contact MWES today and request a consultation to design a scalable, ROI-driven automated material handling system that will keep your business competitive for years to come.



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