

Autonomous Mobile Robots

In today's fast-paced industrial and factory automation landscape, manufacturing processes must be highly efficient and productive to maintain consistent throughput and keepup with demand. GeekPlus autonomous mobile robots (AMRs) offer flexible and quickly implemented solutions to reduce downtime and operational costs while increasing accuracy. These AMRs efficiently handle inbound and outbound goods, enhancing warehouse productivity and providing high ROI for moving, sorting, shelf-to-person, tote-to-person, and pallet-to-person processes. With over 45 years of industrial automation experience, Morrell Industrial is your expert partner for designing and integrating tailored AMR solutions. Partnered with GeekPlus, we bring the knowledge, support, and resources necessary to create leading autonomous mobile robot technology and solutions.



Shelf-to-Person

- Moves inventory shelves and pallets to picking stations, eliminating the constant walking of picking workers
- Abilities include picking, putting away, replenishing, return handling, checking, and dynamic slotting
- Can pick small, medium, and large loads such as pieces, whole totes, and pallets
- Improves picking accuracy and decreases labor intensity
- Increases efficiency by two to three times
- Patented safety features to ensure safe human-robot collaboration



Tote-to-Person

- Combines double-deep vertical warehouse storage with high picking throughput
- Highly efficient picking of up to 350 totes per hour per station
- Easily add or remove from various automation equipment, such as conveyor lines or other robots
- Flexible and convenient integration with customized project deployment
- Quickly adapts to existing shelves and lofts
- No high-precision rails needed

Streamline Manufacturing and Warehouse Processes
Call 248-373-1600, email info@morrellinc.com,
or visit morrell-group.com/autonomous-mobile-robots/



Pallet-to-Person

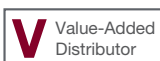
- Multilevel storage and retrieval systems with integrated ground-level picking technology and upper-level storage
- Seamlessly integrates storage and picking operations to deliver high-density, high-throughput capabilities
- Streamlines processes and increases efficiency, accuracy, and space utilization
- Decant-free direct pallet picking
- Increased flexibility, efficiency, and accuracy
- Smooth transition and integration into existing warehouse systems

Moving

- Replaces conveyor belts, forklifts, and other manual trucks for shelving, toting, and pallet handling
- Easily handles pallets 1000 kg or less directly from ground support for pallet lifting and handling
- Compatible with standard pallets of multiple shapes and sizes
- Supports flexible customization of lifting modules within a specific height range
- Adapts to docking modules at different heights, such as load shifting and automatic conveying lines
- No environmental modifications needed

Sorting

- Accurate, agile, and scalable floor-based and multi-layer sorting
- Sorts small and middle-sized items at floor level while monitoring robot traffic and achieving maximum sorting efficiency
- Can work on different platform levels to improve the use and efficiency of warehouse or manufacturing space
- Optimizes throughput process by highly integrated packing, sorting, and loading areas
- Diverse range of robots to suit operational needs
- Capabilities include replenishment, return, and fulfillment



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