

AMR ATTACHMENTS

Matthews specially engineers AMR attachments for a variety of order fulfillment applications



Easily deployed, Autonomous Mobile Robot (AMR) attachments enhance existing operations without facility disruption or reconfiguration, significantly improving throughput efficiency, while immediately reducing errors. The right AMR attachment dynamically integrates AMRs into a system to compliment existing human operators and automation.

Matthews utilizes AMRs as part of a holistic strategy for fulfillment optimization to increase throughput and address labor challenges. Additionally, Matthews Automation Solutions custom engineers application-specific AMR attachments for a variety of order fulfillment applications, including order picking and sortation, material transport, and more.

Advantages

- ▶ Focus operators on value-added work vs. repetitive, manual tasks
- ▶ Reduce pick/put errors
- ▶ Reduce operator walking or driving time
- ▶ Complement existing conveyor systems or provides a flexible conveyor alternative
- ▶ Available in fixed or adjustable height conveyor deck
- ▶ Adapt to fluctuating demand and seasonal peaks
- ▶ No need to reconfigure your working environment
- ▶ Integrate with other material handling automation
- ▶ Enable employees to concentrate on their core task - order picking

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Matthews interfaces to advanced robotics technologies to automate repetitive tasks, allowing human operators to focus on value-added activities. AMRs also enable adaptable applications in dynamic environments like e-commerce and direct-to-consumer fulfillment centers.

To further meet your operation's unique handling and transport requirements, AMRs can be fitted with specially engineered attachments, such as:

Picking AMR Attachment

This AMR attachment features light-directed picking and shelves to hold multiple totes or shipping cartons. Light modules mounted on the shelving ensure items are sorted to the right order and correct quantity. Once all picks are completed, the AMR brings filled cartons or totes to put walls or other areas. AMR-assisted picking enables operators to concentrate on their main task - picking - without spending time handling carts or interacting with conveyors.



Roller Conveyor AMR Attachment

This AMR attachment features a motor-driven roller (MDR) conveyor attachment on top. This enables it to either complement existing conveyor systems, or be deployed in areas where conveyor installation may not be physically or financially feasible. The powered rollers allow a carton or tote to glide smoothly onto and off of the attachment when the AMR reaches its destination. Applications include load transfer to powered or non-powered conveyors, to pallets for cross-docking, or to picking and sortation areas equipped with pick-to-light, put-to-light, automated loop or case sorters and more.



Let's talk about your application.

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