



PALLETISING
END OF LINE AUTOMATION
An Mpac Group Company

AMR

Autonomous Mobile Robots

- ✓ flexible
- ✓ intelligent
- ✓ safe
- ✓ scalable
- ✓ collaborative
- ✓ connected



AMRs.

Autonomous mobile robot

An AMR is a mobile robot that can see, understand, and navigate through its environment autonomously. It provides a flexible and scalable way to automate pallet movements. It is more accurate and efficient than manual operation, while also enabling full tracking of goods and valuable data insights. The system is easy to manage and extend, with integrated high-level safety provisions. Designed for low maintenance and powered electrically, it provides a reliable and sustainable option that is available 24/7.

Integration

CSi's AMR partners are AGILOX and Mobile Industrial Robots (MiR). By remaining an independent integrator, CSi selects the best AMR based on the project requirements and integrates them into a complete palletising solution. The platform and fork AMRs offer functionalities for various set-ups like conveyor-to-conveyor transport, and moving pallets from the floor and between conveyors of different heights. Both AMR manufacturers offer integration possibilities with our MOre software, which allows the operator to control the palletiser and pallet transport from one central location.

Safety and efficiency

The AMR maps its surroundings and can effortlessly move between static and moving obstacles to go from A to B. When a moving obstacle, like a person, intersects with the path of the AMR, it stops and finds an alternative route. This safety measure makes an AMR suitable for a busy production environment, without the need for fencing, tracks, or supervision. By digitally tracking the pallet movements and gathering data insights, AMRs are a perfect solution for improving inventory management.

Manufacturer	AGILOX or MiR
Pallet types	Euro, Block, GMA
Maximum speed	1,4 m/s
Maximum payload	1200 kg
Minimum turning circle	2200 mm
Corridor width one AMR	min. 1500 mm
Corridor width two AMRs	min. 2200 mm
Omnidirectional	specific per model
Navigation method	LiDAR and SLAM

Options

- Integrations into MOre software suite
- Combination of platform and fork AMRs
- Roller deck or lift integration for platform AMR
- Interface conveyors

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