

AMR Solutions

Our integrated AMR (Autonomous Mobile Robot) solution is designed for safe and simple automated transport throughout factories and warehouses.



AMRs complete repetitive tasks, mitigating personnel shortages, minimising human error and preventing injuries to employees and damage to goods.

The fully integrated AMR solution includes mobile robot, pick-up/delivery points and fleet management software. The complete system is safe, simple and scalable. It will minimise human error and improve your company's intralogistics from day one.

The solution does not require any significant changes to existing infrastructure or workflows, and can be fully operational in a matter of days. This completely autonomous solution is based on dynamic and intelligent navigation, requiring no hand-holding from employees.

robotize

We used our experience to source a leading European AMR solution, to make internal logistics safe, simple and scalable.

Robotize is a leading manufacturer of collaborative mobile robot solutions based in Denmark.

They specifically specialize in the design of AMRs for material transport within factories and warehouses.

Fast ROI

In terms of productivity, the RA-MR will easily complete a repetitive workload of a full-time employee. A single unit can easily achieve ROI within 12 months*. After this short pay-off period, the company will experience huge savings every day of the week.



Fleet Management Software

The GoControl Fleet Management System (FMS) is a web application, which controls everything such as the order queue, system component status, real-time robot tracking and much more.

GoControl continuously ensures that transport orders are executed in the most efficient way according to set priorities. If GoControl is connected to a WMS/ERP system, it will provide full traceability and insight in current module locations.



*Based on replacing 3 shifts



Standard Accessories

We provide a wide range of accessories to store, lift, distribute pallets and also to load on and off conveyors. Auxiliary interface such as physical and virtual buttons are also available for installations.



Charging Station

Designed for quick and fully automatic AMR charging in just 45 minutes.

The Management System can cancel a charge if the robot is required for a delivery, maintaining constant operational efficiency.



Conveyor Station

The Conveyor Station provides a seamless PLC integration using a conventional pallet conveyor system.

The station enables AMRs to deliver and collect pallets from existing conveyor systems.

Max. load: 1500 kg



Lift Station

The column lift station is designed to be used as a fully automatic or manual workstation, usually at the end of the production line.

The integrated control panel allows for easy vertical pallet movement and to request AMR pallet transportation.

Max. load: 1200 kg



Pallet Magazine

The AMR pallet magazine automatically stacks and dispenses the pallets without human interaction.

Capacity: 15 pallets



	RA-MR250	RA-MR500	RA-MR1200
Payload	250kg	500kg	1200kg
Dimensions L*W*H	960 x 660 x 295mm	1400 x 1060 x 340mm	1400 x 1060 x 340mm
Min. Passage Width	760mm	1400mm	1400mm
Robot Weight	120kg	187kg	242kg
Max. Speed	2.4m/s (8.6km/h)	2.2m/s (8km/h)	2.2m/s (8km/h)
Turn Radius	660mm (from robot centre)	1000mm (from robot centre)	1000mm (from robot centre)
Battery	LiFePO ₄ / 24V	LiFePO ₄ / 48V	LiFePO ₄ / 48V
Battery Run Time*	8-14 Hours (up to 20km)	6-14 Hours (up to 20km)	6-14 Hours (up to 20km)
Battery Charge Time	45mins (30-95%)	45mins (30-95%)	45mins (30-95%)
Wi-Fi	802.11ac	802.11ac	802.11ac
Operating Temp.	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
Max. Humidity	95% (non-condensed)	95% (non-condensed)	95% (non-condensed)

*Depending on load conditions

Floor Requirements

Max. Gradient	±2%	±2%	±2%
Min. Friction Coefficient	0.70	0.60	0.60
Max. Edge Height	2mm	3mm	3mm

Robotic Automation

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All drawing dimensions in mm. Technical data may be subject to change without previous notice.
Please request detailed drawings at webenquiry@ragroup.com.au

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