

Latent AMR

ALR-W60 Series

Engineered for precision. Built for dense industrial environments.

A compact autonomous platform combining modular design, hybrid navigation, and advanced safety systems.

- Modular architecture for rapid maintenance
- 360° laser-based obstacle protection
- Compact footprint for high-density operations
- Hybrid navigation for flexible deployment



Modular Internal Structure

Tool-free component access and simplified service workflows reduce maintenance time and minimize production downtime.

Advanced Safety Protection

360° laser scanning combined with rear obstacle detection ensures reliable human-robot interaction across dynamic factory floors.

Optimized Compact Design

A streamlined low-profile body enables efficient movement in dense environments without compromising payload performance.

Applications



High-Density Intralogistics

Seamless transport across compact production floors and narrow aisle environments.



Line-Side Component Replenishment

Precision-timed delivery supporting uninterrupted assembly operations.



Intelligent Workstation Feeding

Autonomous material positioning with high stop accuracy and adaptive routing.



Multi-Zone Facility Distribution

Dynamic task allocation across warehouses and manufacturing zones.

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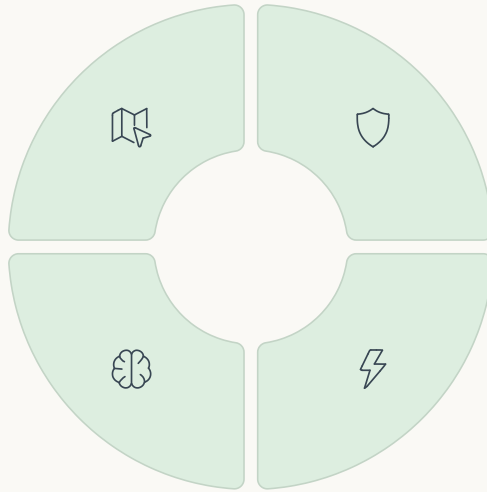
Features & Technical Specifications

Precision Motion Control

High-accuracy positioning ensures stable docking and repeatable material transfer in fast-paced environments.

Scalable Integration

Seamless integration into existing automation systems for coordinated multi-robot operations.



Compact Performance Engineering

Low-profile structure designed for tight aisle navigation without compromising load stability.

High-Speed Efficiency

Up to 3 m/s unloaded travel speed for rapid task execution across large facilities.

Technical Parameters

Product Model	ALR-W60
Navigation Method	Laser SLAM / QR Code / Texture Hybrid
Dimensions (L×W×H)	710 x 510 x 305 mm
Rotation Diameter	778 mm
Lifting Stroke	420 mm (scissor fork)
Lifting plate size	620 x 380 mm
Load Capacity	60 kg rated
Drive Mode	Two-wheel differential
Safety Features	360° laser scanner, marker lights, collision detection, sound and light alarms
Motion Performance	No Load 3 m/s Full Load 2 m/s
Moving Direction	Forward and backward + Rotate in place
Stop Position Accuracy	±10 mm
Battery Performance	1500 life cycle 8h runtime 1.5h fast charge

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