

Latent AMR

ALR-W600 Series

Industrial Throughput. Engineered for Continuous Flow.

The **ALR-W600** is a high-throughput latent lifting AMR built for demanding warehouse and factory environments where material flow cannot slow down. With a 600 kg rated payload and 2.0 m/s operating speed, it delivers the ideal balance of load capacity, motion stability, and continuous-duty performance.

Designed for repetitive pallet transport across production zones, storage areas, and dispatch corridors, the ALR-W600 enables scalable automation for high-frequency industrial logistics operations.



Efficient Pallet Transfer System

Purpose-built for repetitive pallet movement tasks, enabling consistent, operator-free material flow within warehouse and factory environments.

Advanced Safety Protection

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

Optimized Industrial Flow

Engineered to maintain stable pallet movement at higher operating speeds, supporting continuous material flow across warehouse and production environments.



High-Frequency Pallet Transport

Continuous pallet movement across warehouses and manufacturing zones with optimized task cycling.



Multi-Robot Fleet Operations

Designed for coordinated deployment within centralized fleet management systems.



Cross-Dock Material Movement

High-speed transfer between dock doors and temporary staging areas during peak throughput periods.



Warehouse Zone-to-Zone Automation

Efficient pallet transfer between inbound, storage, staging, and outbound areas.

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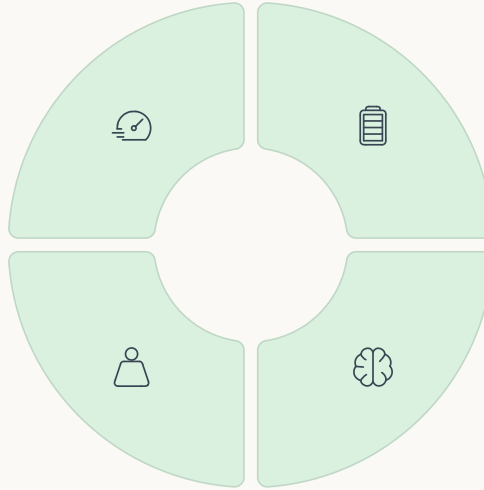
Features & Technical Specifications

High-Throughput Control

Up to 2.0 m/s travel speed with controlled acceleration ensures rapid pallet transport while maintaining positioning accuracy.

Stable Load Handling

Optimized chassis geometry and 600 kg rated capacity provide smooth, controlled movement across warehouse floors.



Continuous-Duty Performance

8-hour runtime and 1500 charge-discharge cycle life support multi-shift industrial operations.

Intelligent Hybrid Navigation

Laser SLAM, QR code, and texture-based positioning enable flexible deployment across structured and semi-structured facilities.

Technical Parameters

Product Model	ALR-W600
Navigation Method	Laser SLAM / QR Code / Texture Hybrid
Dimensions (L×W×H)	950 × 650 × 300 mm Ground Clearance: 20 mm
Rotation Diameter	1000 mm
Lifting System	Motor-Driven latent lifting Lift Distance: 60 mm
Lifting plate size	900 × 560 mm
Load Capacity	600 kg rated Machine Weight: 170 kg
Drive Mode	Two-wheel differential
Safety Features	360° laser scanner, marker lights, collision detection, sound and light alarms
Motion Performance	Max Speed: 2.0 m/s Acceleration: 1.0 m/s ² Climbing: 3° (5%) Obstacle: 10 mm
Moving Direction	Forward and backward + Rotate in place
Stop Position Accuracy	±10 mm ±1° Angle Accuracy
Battery Performance	Manual/Automatic + Manual Battery Replacement 8h runtime 1.5h fast charge

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