

# Innovative AMR Technologies for Your Business

Technical Specification

## EAS15

Pay Load

**1500KG**

Lifting Height

**3300MM**

Length/Width/Height

**1908/930/2175MM**



### Stacking Robot

The AS15 intelligent handling equipment integrates 2D/3D SLAM navigation, laser odometry, and perception technologies, adapting to scenarios such as line-side transport, dense and aisle storage, and low-level shelving. It achieves  $\pm 10$  mm precision navigation by combining 2D/3D SLAM with reflector and marker alignment, supported by consistent manufacturing quality. Multi-algorithm positioning enables standard navigation and intelligent recognition of pallets and material racks, delivering comprehensive industrial automation solutions.

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## Safety Performance

The active safety system supports 360° planar obstacle detection with emergency stop functionality, forward 3D obstacle avoidance, low-height and suspended obstacle recognition, fork-tip collision detection, emergency stop switches, and protective bumpers.

## Motion Performance

The robot achieves a maximum travel speed of 1.5 m/s and can clear obstacles up to 5 mm, cross gaps up to 30 mm, and climb slopes up to 3°. It supports peripheral integration with elevators, automatic doors, and conveyor systems. Compatible with various load carriers including pallets, bins, cages, and racks.

## Endurance

The system supports manual and automatic charging with a configurable 24V/420Ah LiFePO<sub>4</sub> battery, offering up to 2,000 charge-discharge cycles and high safety. It delivers 12–16 hours of runtime under rated conditions and supports fast charging with a charging time of less than 2.5 hours.

## Human-Machine Interaction

Equipped with a human-machine interface (HMI) display for real-time monitoring of system status and operational parameters.

## Communication

Supports dual-band high-power Wi-Fi 6 (802.11ax) for doubled signal coverage, with optional expansion to industrial-grade Ethernet. Compatible with 802.11b/g/n/ac/ax Wi-Fi protocols.

## AI Recognition

The system employs AI-powered perception for high-precision, adaptive detection of pallets, racks, and cages across multiple specifications, colors, and angles, ensuring stable pickup and placement operations.

## Quality Assurance

Each AMR undergoes rigorous testing (e.g., load testing, durability testing) and full-process inspection before delivery, ensuring compliance with 48-hour fault-free operation standards.

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## Technical Data

Features	1	Product Model			EAS15
	2	Drive Type			Electric
	3	Operation Mode			Laser Guidance
	4	Pay Load	Q	kg	1500
	5	Load Center	C	mm	600
	6	Front Overhang	X	mm	679
	7	Wheelbase	Y	mm	1239
Wheels	1	Tire			Polyurethane Wheels
	2	Number of Wheels (Driving Side/Load-bearing Side)			1x-4/4
	3	Drive Wheel Size	mm	mm	230x82
	4	Load Wheel Size	mm	mm	82x65
	5	Stabilizer Wheel Size	mm	mm	100x30
	6	Track Width (Drive Side)	bl0	mm	380
	7	Track width (Load Side)	bl1	mm	568
Motor	1	Drive Motor Power		kw	1.7
	2	Lifting Motor Power		kw	2.2
	3	Battery Voltage/Capacity		V/ah	24V/60Ah Bateria litowa
Other	1	Vehicle Noise Level		dB(A)	<70

Dimensions	1	Total Height(Forks at Full Elevation )	H1	mm	2175
	2	Lifting Height	H3	mm	3300
	3	Fork Ground Clearance (Highest Position)	H2	mm	3680
	4	Fork Ground Clearance (Lowest Position)	H5	mm	87
	5	LiDAR Height	H6	mm	1823
	6	Charging Brush Plate Center Height	H7	mm	231
	7	Total Length	L1	mm	1908
	8	Total Width (with Bumper)	b1	mm	930
	9	Vehicle Body Width	b2	mm	890
	10	Fork dimensions	s/e/l	mm	180/70/1150
	11	Fork Spread	b3	mm	560
	12	Min Ground Clearance	m	mm	31
	13	Right-angle Stacking Aisle Width	Ast	mm	1445
Performance	14	Turning Radius	Wa	mm	2300
	1	Travel Speed (loaded/unloaded)		m/s	1/1.5
	2	Lifting Speed (loaded/unloaded)		mm/s	80/100
	3	Lowering Speed (loaded/unloaded)		mm/s	100/90
	4	Maximum Gradeability (loaded/unloaded)		%	3/5
	5	Brake Type			Electromagnetic Brake



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