

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 ± 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.

AiTEN

 **Translog**
SYSTEMS

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 LiFePO₄ 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)	b10	mm	380
	7	Track width (Load Side)	b11	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
	14	Turning Radius	Wa	mm	2300
Performance	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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SYSTEMS

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