

# Innovative AMR Technologies for Your Business

Technical Specification

## EAM15

Pay Load  
**1500KG**

Lifting Height  
**1600MM**

Turning Radius  
**1165MM**



### Stacking Robot

The AM15 Series Intelligent Handling Robot is a smart logistics solution developed for the Industry 4.0 era. Built on a modular design philosophy, it integrates advanced SLAM navigation and high-precision servo control technologies. Specifically engineered for heavy-load material transport, it supports a maximum load capacity of 1500 kg and is compatible with a wide range of load carriers, including pallets, material cages, and turnover boxes. With comprehensive functionality, the AM15 effectively meets the automation upgrade needs of modern manufacturing and warehouse logistics operations.

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SYSTEMS

## Safety Performance

Equipped with 360° LiDAR and 3D vision sensors for real-time obstacle detection, autonomous optimal path planning, and fork tip collision detection. Safety features include emergency stop buttons and protective anti-collision strips, with full compliance to CE certification standards.

## Motion Performance

Maximum operating speed: 1.0 m/s (fully loaded); lifting speed: 80 mm/s (fully loaded). The robot can surmount obstacles up to 10 mm in height and climb slopes up to 5°, with a turning radius of 1165 mm to optimize maneuverability in constrained spaces. It supports intelligent attachments and customizable tools tailored to specific client scenarios, ensuring high precision, agility, and reliability in demanding operational environments.

## Endurance

Supports both manual and automatic charging with a high-safety lithium iron phosphate (LiFePO<sub>4</sub>) battery rated for over 2,000 charge-discharge cycles. Features fast-charging capability and a 24V 100Ah battery configuration, providing 6–8 hours of runtime under rated conditions. Charging time is 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			EAM15
	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	680
	7	Wheelbase	Y	mm	970
Wheels	1	Tire			Polyurethane Wheels
	2	Drive Wheel Size	mm	mm	230x82
	3	Load Wheel Size	mm	mm	82x65
	4	Stabilizer Wheel Size	mm	mm	100x30
	5	Number of Wheels (Driving Side/Load-bearing Side)			1x-4/4
	6	Rear Wheel Track	b10	mm	380
Motor	1	Drive Motor Power		kw	AC 1.7
	2	Lifting Motor Power		kw	DC 2.2
	3	Battery Voltage/Capacity		V/ah	24/100 Lithium Battery
Other	1	Control Method			FET Control

Dimensions	1	Total Height(Forks Lowered)	H1	mm	1875
	2	Lifting Height	H3	mm	1600
	3	Total Height (Forks Raised)	H4	mm	2100
	4	Fork Ground Clearance (Lowest Position)	H5	mm	87
	5	Total Length	L1	mm	1695
	6	Total Width	b1	mm	930
	7	Vehicle Body Width	b2	mm	800
	8	Fork dimensions	s/e/l	mm	180/70/1200
	9	Fork Spread	b3	mm	560
	10	Min Ground Clearance	m	mm	30
	11	Right-angle Stacking Aisle Width	As	mm	2115
	12	Turning Radius	Wa	mm	1190
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	0-120
	4	Maximum Gradeability (loaded/unloaded)		%	3/5
	5	Brake Type			Electromagnetic Brake



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