

# Innovative AMR Technologies for Your Business

Technical Specification

## EAPe15

Pay Load  
**1500KG**

Lifting Height  
**205MM**

Length/Width/Height  
**1580/880/1880MM**



## Transport Robot

The APe15 AMR robot integrates 2D/3D SLAM navigation, laser odometry, and perception technologies, providing robust adaptability for edge-line transportation, dense storage, and aisle storage applications. It achieves  $\pm 5$  mm high-precision positioning (compatible with reflector and marker-based navigation) and ensures vehicle consistency through advanced manufacturing processes. Multiple positioning algorithms enable automatic recognition and precise pickup and placement of pallets and racks/cages.

**AiTEN**

 **Translog**  
SYSTEMS

## Motion Performance

The maximum operating speed is 1.5 m/s (fully loaded). The system can overcome obstacles up to 10 mm in height, cross gaps up to 30 mm, and climb slopes of 5°. It interfaces with external systems such as elevators, automatic doors, and conveyor lines. It is compatible with various load carriers, including pallets, totes, cages, and racks.

## 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.

## Endurance

It supports both manual and automatic charging, utilizing LiFePO<sub>4</sub> (lithium iron phosphate) batteries that offer high safety and up to 2,000 charge-discharge cycles. The battery supports fast charging, delivering 6–8 hours of runtime under rated conditions with a charging time of less than 2 hours.

## Safety Performance

The system features active safety with 360° planar obstacle detection, enabling forward 3D obstacle avoidance as well as detection of low-height and overhead obstacles. It is equipped with fork-tip collision detection, emergency stop buttons, and anti-collision bumpers, and complies with CE certification standards.

## 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.

## Human-Machine Interaction

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

## 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

	1	Product Model			EAPe15
	2	Drive Type			Electric
	3	Operation Mode			Laser Guidance
Features	4	Pay Load	Q	kg	1500
	5	Load Center	C	mm	600
	6	Front Overhang	X	mm	847/918
	7	Wheelbase	Y	mm	1036/1107
	1	Tire			Polyurethane Wheels
	2	Number of Wheels (Driving Side/Load-bearing Side)			1x-4/4
	3	Drive Wheel Size	mm	mm	210x70
Wheels	4	Load Wheel Size	mm	mm	82x80
	5	Stabilizer Wheel Size	mm	mm	75x23
	6	Rear Track Width	b10	mm	380
	7	Front Track Width	b11	mm	580
	1	Drive Motor Power		kw	AC 0.75
	2	Lifting Motor Power		kw	DC 0.8
	3	Battery Voltage/Capacity		V/ah	24/60 Lithium Battery

	1	Total Height(Forks Lowered)	H1	mm	1880
	2	Lifting Height	H3	mm	205
	3	Max. Height (Forks at Full Elevation)	H4	mm	1880
	4	Fork Ground Clearance (Lowest Position)	H5	mm	87
	5	Total Length	l1	mm	1580
	6	Total Width	b1	mm	880
	7	Vehicle Body Width	b2	mm	755
	8	Fork dimensions	s/e/l	mm	180/70/1150
	9	Fork Spread	b3	mm	560
	10	Min Ground Clearance	m	mm	20
	11	Right-angle Stacking Aisle Width	ast	mm	2030
	12	Turning Radius	Wa	mm	1340
Performance	1	Travel Speed (loaded/unloaded)		m/s	1/1.5
	2	Lifting Speed (loaded/unloaded)		mm/s	40/50
	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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SYSTEMS

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