

Innovative AMR Technologies for Your Business Needs

Technical Specification

EAE15

Pay Load

1500KG

Lifting Height

4500MM

Length/Width/Height

2578/1040/2100MM



Counterbalance Forklift

The AE15 AMR robot integrates 2D/3D SLAM navigation, laser odometry, and perception technologies to deliver robust scene adaptability for automotive rack disassembly/stacking, dense storage, dock operations, shelf docking, and robotic arm collaboration, with support for customized solutions. Through advanced manufacturing processes that ensure vehicle consistency, the AE15 achieves ± 5 mm positioning accuracy (compatible with reflector- and column-based navigation). Multiple algorithms enable automatic recognition, pickup/placement, and disassembly/stacking of pallets, spools, and racks. For safety, the robot is equipped with 360° planar obstacle stopping, forward 3D obstacle avoidance, rear-bottom obstacle detection, low-height and overhead obstacle identification, as well as load presence, spatial, height, and deviation detection. Additional safety features include fork tip collision detection, emergency stop buttons, anti-collision bumpers, and compliance with UL certification standards.

AiTEN

 **Translog**
SYSTEMS

Motion performance

The forward-moving mast design significantly reduces operational space requirements, enabling smooth navigation in narrow aisles and high-density storage environments. It supports attachments such as fork side-shifting, fork opening/closing, and fork tilting, as well as customizable tools like clamp arms and rotating forks. These capabilities address specialized requirements in automotive manufacturing, cold chain logistics, and electronics production, delivering millimeter-level precision, agile motion control, and mission-critical reliability across diverse operational scenarios.

Endurance

Supports both manual and automatic charging with a LiFePO₄ (lithium iron phosphate) battery, offering high safety and over 2,000 charge-discharge cycles. Equipped with a 24V 210Ah battery, it provides 6–8 hours of runtime under rated conditions and supports fast charging with a charging time of less than 2 hours.

Human-Machine Interaction

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

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AI Recognition

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

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.

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.

Technical Data

Features	1	Product Model			EAE15
	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	167
	7	Wheelbase	Y	mm	1100
Wheels	1	Tire			Polyurethane Wheels
	2	Drive Wheel Size		mm	254x100
	3	Load-bearing Wheel Size		mm	210x85
	5	Number of Wheels (Driving Side/Load-bearing Side)			1x-1/2
	6	Track (Driving Side)	b10	mm	/
	7	Track (Load-bearing Side)	b11	mm	841
	1	Curb Weight		kg	2865±50
Other	2	Axle Load (Driving Side/Load-bearing Side) – Full Load		kg	544/3821
	3	Axle Load (Driving Side/Load-bearing Side) – Empty Load		kg	1589/1276
	4	Vehicle Noise Level		dB(A)	<70
	5	Battery Weight		kg	79
	6	Battery Voltage/Capacity		V/ah	24/301 Lithium Battery

Dimensions	1	Total Height(Forks Lowered)	H1	mm	2100
	2	Lifting Height	H3	mm	4500
	3	Fork Ground Clearance (Highest Position)	H2	mm	5423
	4	Fork Ground Clearance (Lowest Position)	H5	mm	40
	5	Total Length	L1	mm	2578
	6	Total Width (with Bumper)	b1	mm	1040
	7	Vehicle Body Width	b2	mm	950
	8	Fork dimensions	s/e/l	mm	110/40/1150
	9	Fork Outer Width	b3	mm	400-680
	10	Min Ground Clearance	m	mm	50
	11	Right-angle Stacking Aisle Width	As	mm	3029
	12	Turning Radius	Wa	mm	1296
Performance	1	Travel Speed (loaded/unloaded)		m/s	1.5/2
	2	Lifting Speed (loaded/unloaded)		mm/s	90/120
	3	Lowering Speed (loaded/unloaded)		mm/s	100/90
	4	Maximum Gradeability (loaded/unloaded)		%	45787
	5	Brake Type			Electromagnetic Brake
	6	Drive Motor Power		kw	AC 2.5
	7	Lifting Motor Power		kw	DC 3.0



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