Innovative AMR Technologies for Your Business

Technical Specification

ETP100

Pay Load

1000KG

Lifting Height

60MM

Length/Width/Height

1300/940/265MM

Transfer Robot

The product delivers outstanding positioning performance, offering multi-scenario adaptability, high-precision localization, and compatibility with diverse algorithms. With agile maneuverability and strong obstacle-crossing capabilities, it seamlessly adapts to industrial environments such as 3C electronics docking, line-side material transfer, and warehouse logistics. Featuring dual front-and-rear LiDAR fusion or laser SLAM combined with QR code-assisted navigation, the system achieves ultra-precise positioning accuracy of ±5 mm. It supports multiple positioning modes—including 2D SLAM, QR code navigation, and SLAM + QR code hybrid navigation—forming an intelligent navigation architecture based on the trinity of scenario coverage, precision localization, and algorithmic adaptability.

AiTEN

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Safety Performance

Supports 360° planar obstacle stop for safety; enables material rack recognition and automatic docking alignment; capable of detecting low-profile obstacles. Equipped with audible-visual alarms and emergency stop buttons, and compliant with CE certification.

Motion Performance

The product offers exceptional mobility performance, achieving a maximum operating speed of 1.5 m/s under full load. It supports obstacle clearance of up to ±5 mm, gap traversal up to 30 mm, and slope climbing up to 3° (5% gradient). Engineered for industrial agility, it ensures stable operation across uneven surfaces, narrow aisles, and inclined paths—delivering robust adaptability to complex terrain while maintaining precision and operational efficiency.

Endurance

Supports both manual and automatic charging, providing 6–8 hours of runtime under standard test conditions. Featuring lithium iron phosphate ($LiFePO_4$) batteries, the system ensures high safety and offers a charge-discharge cycle life of up to 2,000 cycles. Charging time is less than 2.5 hours.

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.

Customisation

Capable of integrating various upper attachments to extend the AMR's functionality across diverse application scenarios—for example, adding a robotic arm enables autonomous manipulation tasks.

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			ETP100
	2	Drive Type			Differential Drive
	3	Operation Mode			Laserowa
	4	Pay Load	Q	kg	1000
	5	Vehicle Weight		kg	330
Wheels	1	Tire			Polyurethane Wheels
	2	Drive Wheel Size		mm	160
	3	Load Wheel Size		mm	76
	4	Track Width (Drive Side)	b10	mm	758
Other	1	Travel Speed (loaded/unloaded)		m/s	1.3/1.5
	2	Maximum Gradeability (loaded/unloaded)		%	3/5
	3	Guidance Accuracy		mm	±10
	4	Brake Type			Electromagnetic Brake

Dimensions	1	Total Height(Forks at Full Elevation)	H1	mm	265
	2	Lifting Height		mm	60
	3	Lifting Time		s	3
	4	Total Length	L1	mm	1300
	5	Total Width	b1	mm	940
	6	Min Ground Clearence		mm	25
	7	Right-angle Stacking Aisle Width	Ast	mm	1746
Performance	1	Battery Type			LiFePO4
	2	Charging Method			Manual + Auromatic Charging
	3	Rated Rnage		h	8
	4	Charging Time		h	≤2
	5	Battery Voltage/Capacity		V/Ah	48/40
	6	Control Method			Servo
	7	Communication Module			WiFi 2.4GHz/5.8GHz

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