

MULTI-INTELLIGENCE NAVIGATION SMART OPERATION FOR ALL SCENARIOS

Industrial-Grade Standard FR-AMR-300



Heavy duty



Intelligent



Safe



Reliable

Key Performance Parameters

Effective Payload	300kg	Contact Protection	Piezoelectric Contact Edge Switch
Rotation Diameter	990mm	Acousto-optic Alarm	Standard Configuration
Positioning Accuracy	$\pm 15\text{mm}$, $\pm 1^\circ$	Power Supply Interface	48V/10A, 24V/5A
Maximum Running Speed	2m/s	Communication Interface	EtherNet Port
Drive Mode	Dual-wheel Differential	Overall Dimensions	800×600×260mm
Navigation Mode	Laser Slam	Total Weight	85kg
Passability	Slope $\leq 5\%$, Step $\leq 1\text{cm}$, Gap $\leq 1\text{cm}$	Operating Temperature	0-45°C
Protection Grade	IP20	Operating Humidity	90%RH
Front & Rear Laser Obstacle Avoidance	2 pcs, 360° Coverage	Charging Time	$\leq 2\text{h}$
Emergency Stop Button	2 pcs, 1 at each diagonal	Battery Specification	48V, 30Ah
		Battery Life	10h



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Youtube



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MODULAR EXPANSION: AMR → Composite Robot

Unlock "Mobility + Operation" for All-Scenario Work



3D Camera (Eye)

Achieve high-precision accurate positioning and target recognition.

Robotic Arm (Hand)

Select and configure robotic arms with different payloads and arm spans on demand for precise operation execution.

AMR (Leg)

Equipped with the omnidirectional intelligent mobile platform AMR. Realize autonomous and flexible movement.

With the AMR as the mobile platform, it flexibly integrates robotic arms, 3D vision, intelligent scheduling systems and other components, and is upgraded into a composite robot with full-functional coordination of "hands, brain, eyes and feet", realizing integrated "mobility + operation" work.

Product Advantages



Flexible Combination & Rapid Deployment

Supports modular expansion and secondary development to adapt to diverse scenario requirements;



Intelligent Scheduling & Collaborative Operation

High flexibility, multiple units can be linked to form a mobile workstation and build a flexible production line;



Autonomous Navigation & Intelligent Decision-Making

Equipped with an autonomous navigation and decision-making system to realize unmanned autonomous operation of "Perception - Decision - Execution";



Automatic Process & Efficient Continuity

Full-process autonomous operation, improving automation efficiency by more than 30%.

Applicable Industries



Automotive Manufacturing



Semiconductor



3C Electronics



Logistics and Warehousing Industry



Biomedical Industry



New Retail



Food



Education & Scientific Research