

Multiway Robotics

Empowering the World with Billions of Robots

Dual Differential Drive

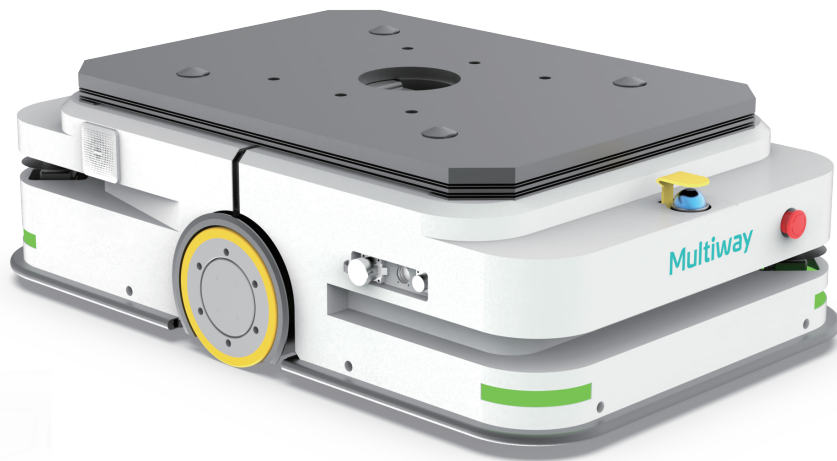
AMR

MW-C05/10

www.mw-r.com



Multiway Robotics



Introduction

Multiway Robotics' natural navigation dual differential drive AMR can automate material transportation, improve intralogistics efficiency, and free employees from repetitive and dangerous work, thereby ensuring work safety and efficiency and reducing corporate costs. Multiway Robotics uses AGV forklifts/Four-way shuttles/AMRs/AGV tow tractors as hardware carriers, and through machine vision system, it can provide complete intelligent manufacturing and smart warehousing solutions, with an investment return cycle of generally no more than 18 months. And it can be equipped with different accessories to meet the needs of facilities and payloads. Automatic charging technology can support 7x24 hours of uninterrupted operation, and can easily cope with even the busiest business.

Features



Environment Adaptive

Laser navigation and positioning
No need to renovate the on-site environment



Highly Intelligent

Mapping, path planning, and auto-charging
Applicable to multiple scenarios with intelligent operations



High Precision

Primary positioning precision: ± 5 mm
Secondary positioning precision: ± 2 mm



Intelligent Safety

Perfect fault self-detection
All-round safety with obstacle avoidance and sound & light warning

Multiway Robotics

● Standard ○ Optional – Not Available



Product Name		Dual Differential Drive AMR	
Model		MW-C05	MW-C10
Navigation	LiDAR Navigation	●	
	Sky Navigation	○	
	Mixed Navigation	○	
Communication		Wi-Fi/ 5G/ Optical Communication Support	
Basic Parameter	Rated Load (kg)	500	1000
	Dimensions LxWxH (mm)	930×730×274	1150×820×280
	Cross-Groove Capability (mm)	≤30	≤10
	Climbing Capacity (mm)	≤2°	≤3°
	Weight (kg)	260	350
Carrier Type	Lifting Mechanism	●	
	Conveyor Mechanism	○	
Driving Features		Forward, Reverse, Arc, Spin	
Movement Specifications	Maximum Lifting Height (mm)		70
	Travel Speed (m/s)	1.5	1.6
	Stop Angle (°)		±1
	Position Accuracy (mm)		±10
Safety Protection	Auto/Manual	●	
	Path Deviation Protection	●	
	Component Fault Protection	●	
	Backward Bottom Obstacle Avoidance	●	
	Stereo Obstacle Avoidance	●	
	Safety Bumper	●	
	Emergency Stop Button	●	
	Sound & Light Warning	●	
HMI	–		
Battery Specifications	Battery Wtandard Capacity (Ah)	40	50
	Run Time (h)		6-8
Cargo inspection	Correction Detection	○	○
	Barcode Recognition	○	○

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

Platform Support

Upward uplift mechanism

The AMR (Autonomous Mobile Robot) moves under the cargo, lifts the entire pallet of goods by raising its top, and then transports it. The total weight of the goods and the carrier does not exceed the load capacity. Lifting and carrying in this manner allows for more flexible handling of transportation tasks, offering significant advantages in narrow aisles and small spaces.



Conveyor agency

The AMR (Autonomous Mobile Robot) can carry a conveyor belt or rollers, which allows it to deliver goods directly to the production line, achieving automatic loading and unloading. This can solve the problem of goods being too heavy to be moved by manual labor, thereby realizing production automation and improving production efficiency.



Multiway Robotics

Recommended Applications

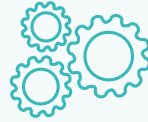
Automobile and supporting industries, food, microelectronics, machining, medical apparatus and instruments, aerospace, printing and packaging, express delivery...



Automobile and supporting industries



Food



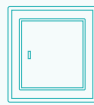
Machining



Medical apparatus and instruments



Aerospace



Building materials



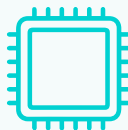
New energy



Garment



Cold chain distribution



Microelectronics



Hardware & tools



E-commerce logistics



Military



Printing and packaging



Express delivery



Household

Multiway Robotics

Multiway Robotics is committed to "Empowering the World with Billions of Robots" and takes "To create a new and efficient operating mode" as its mission, continuously driving the advancement of global productivity.

Global Presence: The headquarters is located in Shenzhen, China, with production facilities in Zhejiang Wuzhen. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 40+ countries and regions worldwide.

Our Expertise: Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass WMS, RCS, WCS, on-site management systems, and various visual solutions.

Software: WMS, RCS, WCS, Multiway Horizons, Simulation

Hardware: AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.

Contact Us

Offices:

USA · Atlanta | Japan · Tokyo | Korea · Seoul
Germany · North Rhine-Westphalia
China · Shenzhen

Hotline: +86 133 9286 4873

Official website: www.mw-r.com

Email: sales@mw-robot.com

Subscribe to get the latest Multiway Robotics news

