Multiway Robotics

Slim Yet Powerful

New Bee

- Light-weight and low requirements for ground bearing capacity; supporting cross-floor handling; stable operation
- Applicable to extremely narrow passages, increasing space utilization in factories
- Modular design, allowing for super fast and flexible deployment

Standard Version



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Limited Space, Unlimited Wisdom

Laser SLAM Navigation

No need to renovate the on-site environment

Applicable to Multiple Scenarios

Suitable for ground handling, high-floor handling, cross-floor handling by elevator, etc.

Five Layers of Safety Protection

Sound & light warning

Front obstacle avoidance/rear 3D visual obstacle avoidance

3D visual stereo obstacle avoidance

Emergency stop button

Control system protection: path deviation, positioning fault, component fault, communication fault





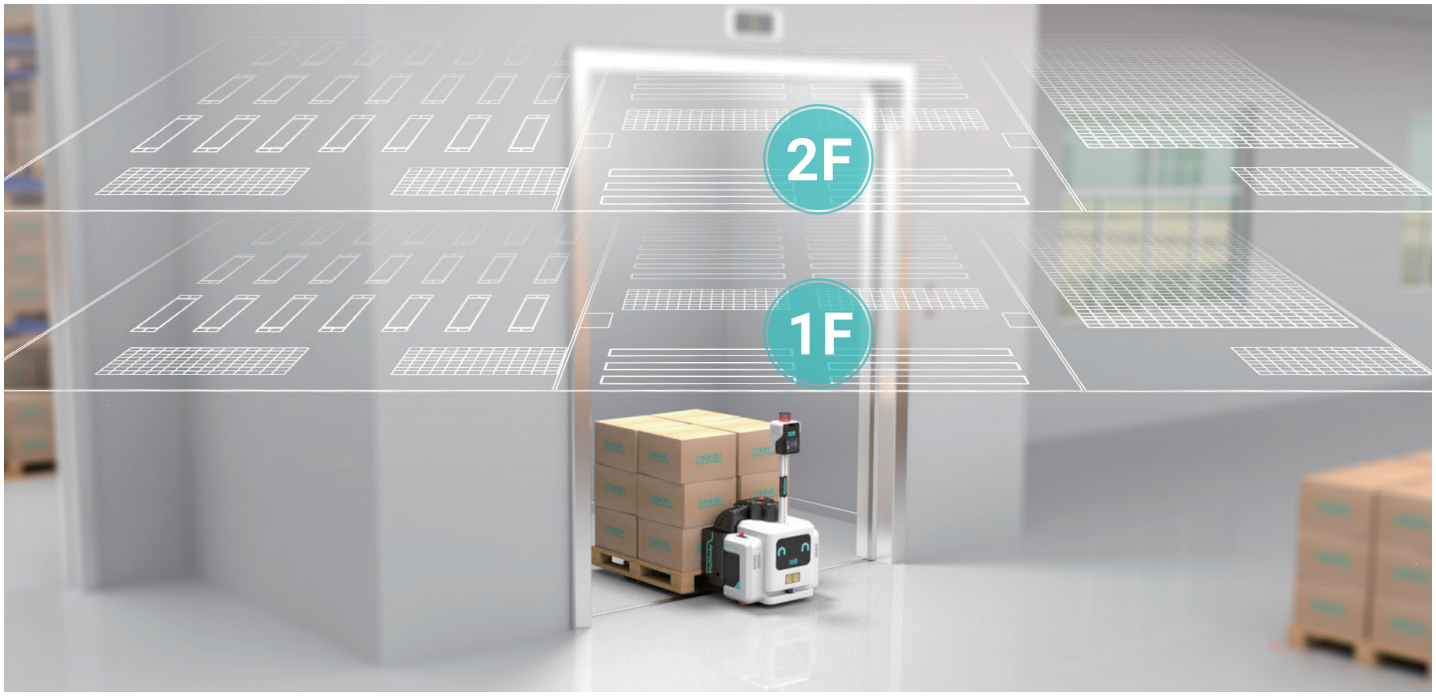
Technical Specifications

Navigation	Laser SLAM	●
Communication	Wireless Wi-Fi	●
	Optical Communication	○
	5G	○
Basic Specifications	Rated Load (kg)	2000
	Dimensions L×W×H (mm)	1600×750×1900
	Fork Dimensions l/e/s (mm)	1150×173×60
	Turning Radius (mm)	1315
	Climbing Capability (mm)	⩽3° (5%)
	Weight (kg)	240
Movement Features	Driving Features	Forward, backward, turn
	Driving Speed (m/s)	1.5
	Positioning Precision (mm)	±5
	Stop Angle Accuracy (°)	±1
	Manual/Auto	●
Safety Protection	Path Deviation Protection, Positioning Fault Protection	●
	Component Fault Protection, Communication Fault Protection	●
	Bottom Obstacle Avoidance Radar	●
	Fork Head Anti-Collision Detection	●
	Stereo Obstacle Avoidance	○
	Emergency Stop Button	●
	Sound & Light Warning	●
	HMI	●
Battery Specifications	Charging Mode	Auto/Manual
	Power Swap Mode	●
	Power Swap Mode	Disassemble
	Battery Type	Lithium iron phosphate
	Rated Voltage (V)	48V
	Standard Capacity (Ah)	20 Ah
	Number of Charge Cycles	3000 charging cycles
	Charging Pile Specifications	48V 10A
Visual Function	Goods Presence Detection	●
	Goods In-Place Detection	●
	Pallet Pose Identification	○
	On-Fork Goods Appearance Detection	○
	Barcode/RFID Identification	○

● Standard ○ Optional

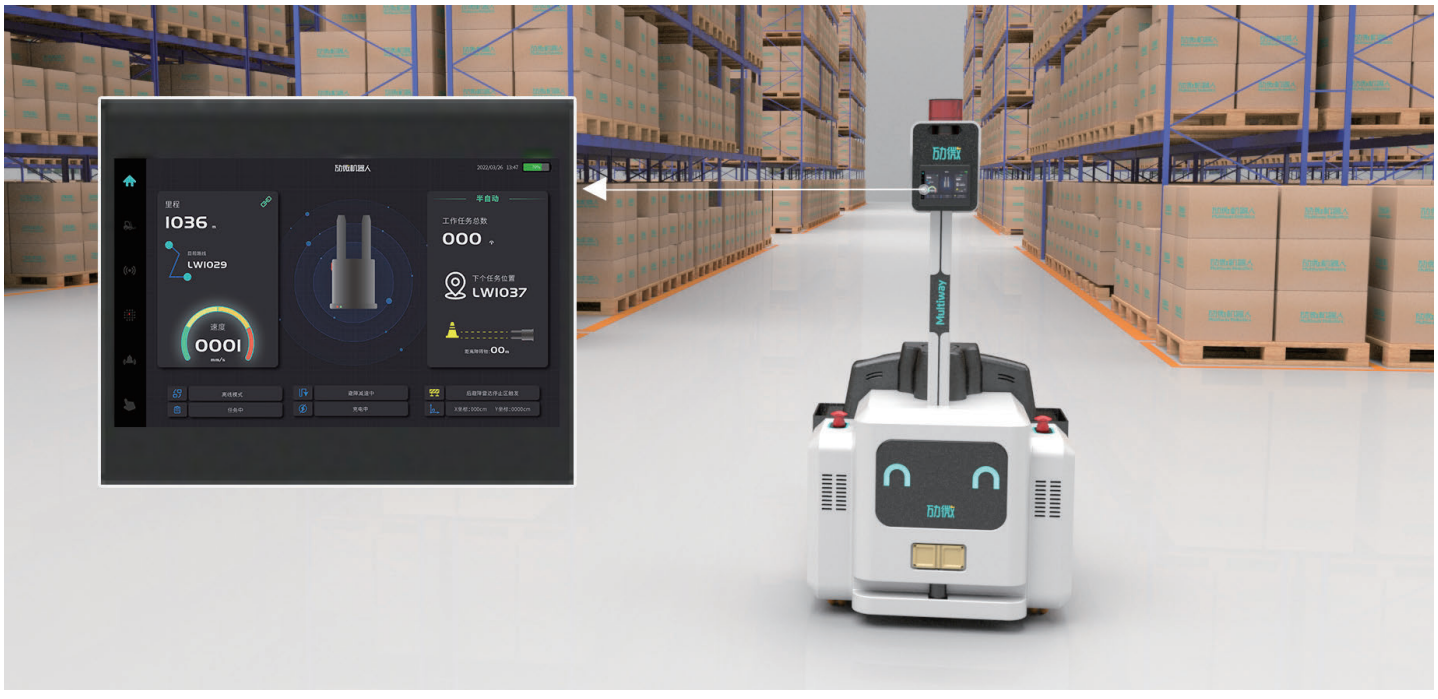
The dimensions can be customized to satisfy project requirements.

Cross-Floor Handling by Elevator



The cross-floor handling function makes it suitable for multi-floor and multi-area material handling applications. With the equipment control system MW-WCS, it can automatically interact with elevators or automatic doors and therefore enter/exit them to walk between different floors and areas.

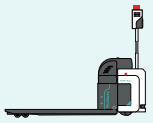
Visualized Information, Easily Track Vehicles at Any Time



In-vehicle HMI enables human-machine interaction and easy access to the vehicle status in real time.

Low Investment, High Return - Truly Cost-Effective

Replacing a manual pallet forklift with a Multiway X20 can save hundreds of thousands of expenses (2-year service life)



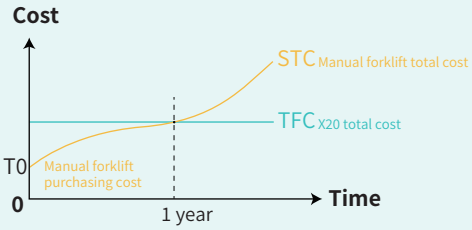
X20 purchasing cost



Manual forklift purchasing cost

Labor cost

Other welfare and administrative costs



Calculation: Total cost = forklift purchasing cost + labor cost (2 shifts per day) + other welfare and administrative costs

Value

Reduced Operational Costs

It can save labor costs and other administrative costs, reduce maintenance costs, prevent accidents, and ensure safe production.

Increased Productivity

The optimized automation process and on-site system management can improve productivity, enable a 24-hour stable operation, and improve the company's management capacity.

Accelerated Intelligent Manufacturing Upgrade

The use of big data enables the interconnection with other logistics equipment and warehousing equipment, which extends single product application to systematic application and allows for overall optimization.

Multiway Robotics

Multiway Robotics is a leading intelligent intralogistics solution provider. Headquartered in Shenzhen, China, we have offices in East China, Central China, North China, Southwest China, Northeast China, and other places, and also have established overseas operation centers, with business sales, operations, and services covering all regions at home and abroad.

Dedicated to advanced robotics and artificial intelligence technologies, Multiway Robotics provides customers with complete intelligent manufacturing and logistics solutions. We offer a variety of hardware products, including unmanned forklifts, Autonomous Mobile Robots (AMRs), unmanned tractors and four-way shuttles, and software systems, including Multiway Cloud, WMS, WCS, on-site management systems, and visual solutions. These products and solutions have been successfully applied to a large number of benchmarking projects in factories, warehousing, logistics, and other fields, making Multiway Robotics become a trusted partner of many leading enterprises.



● Headquarters & Factory

● Domestic sales and service

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