

Slim Yet Powerful

WeFront X20

- © 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



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	LiDAR Navigation	●
Communication	Wireless Wi-Fi	●
	Optical Communication	○
	5G	○
Basic Specifications	Rated Load (kg)	2000
	Dimensions L×W×H (mm)	1658x780x(1940/2140/2340)
	Fork Dimensions l/e/s (mm)	1150×175×55
	Turning Radius (mm)	1326
	Climbing Capability (mm)	≤3° (5%)
	Weight (kg)	520
Movement Features	Driving Features	Forward, backward, turn
	Driving Speed (m/s)	1.3/1.1
	Positioning Precision (mm)	±10
	Stop Angle Accuracy (°)	±1
	Manual/Auto	●
Safety Protection	Path Deviation Protection, Positioning Fault Protection	●
	Component Fault Protection, Communication Fault Protection	●
	Bottom Obstacle Avoidance LiDAR	●
	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)	40Ah
	Number of Charge Cycles	2000 charging cycles
	Charging Pile Specifications	48V 50A
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



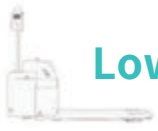
The cross-floor handling function makes it suitable for multi-floor and multi-area material handling applications. With the equipment control system MW-WCS, it can automatically interact with elevators or automatic doors and therefore enter/exit them to walk between different floors and areas.



Visualized Information, Easily Track Vehicles at Any Time

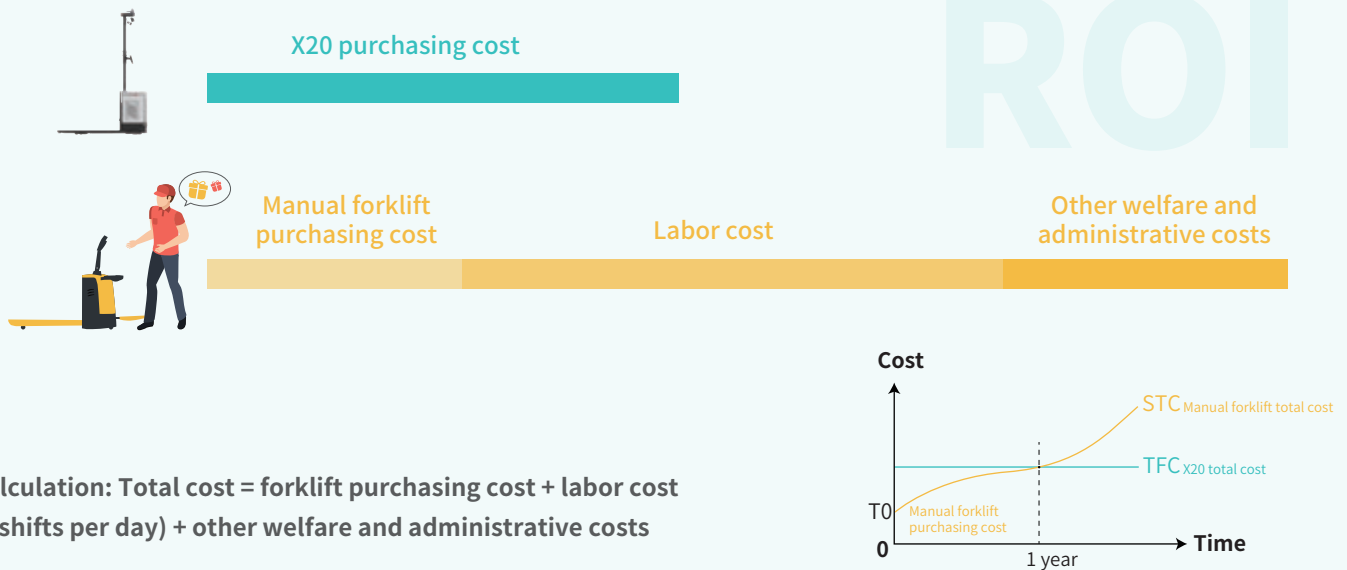


In-vehicle HMI enables human-machine interaction and easy access to the vehicle status in real time.



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)



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, a leading intelligent intralogistics solution provider, is dedicated to improve intralogistics efficiency, ensure work safety and reduce labor operational cost.

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.



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