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

Cobots   Artificial Vision   PLCs   HMIs   Sensors   Dataloggers   Software   Gateways   Oscilloscopes   Load cells   DAQ / IoT   Industrial PCs

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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
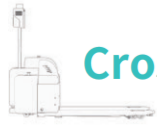
Emergency stop button

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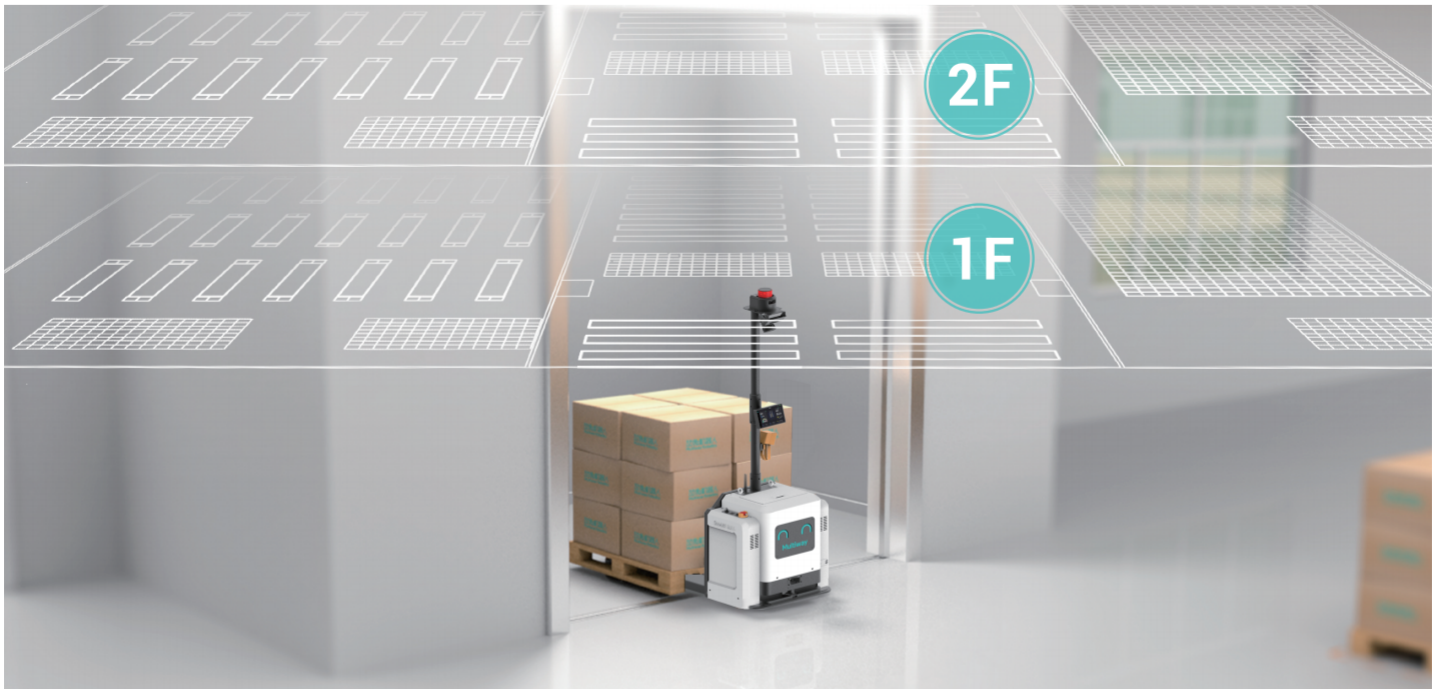
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Technical Specifications

Category	Specification	Value
Navigation	Laser SLAM	●
Communication	Wireless Wi-Fi	●
	Optical Communication	○
	5G	○
Basic Specifications	Rated Load (kg)	2000
	Dimensions L×W×H (mm)	1613x735x(1940/2140/2340)
	Fork Dimensions l/e/s (mm)	1150×173×60
	Turning Radius (mm)	1360
	Climbing Capability (mm)	≤3° (5%)
	Weight (kg)	480
Movement Features	Driving Features	Forward, backward, turn
	Driving Speed (m/s)	1.3/1.1
	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)	30 Ah
	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

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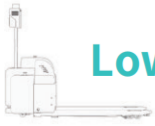
Cross-Floor Handling by Elevator

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

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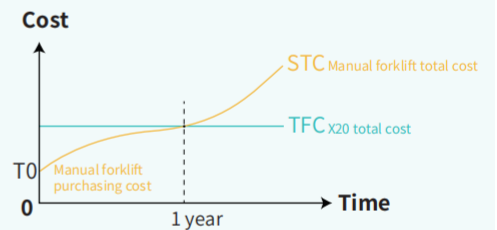
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Low Investment, High Return - Truly Cost-Effective

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

ROI

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

Cost

STC Manual forklift total cost

TFC X20 total cost

T0
Manual forklift purchasing cost

0

1 year

Time

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.

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