

# WeFront X20S

Compatible with Multi-spec Pallets

2-Way / 4-Way / POD Pallets



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Narrow Aisle



Cross Floor



Multi-spec Pallets



Quick Deployment



## Introduction

Multiway Wefront X20S is a state-of-the-art solution designed to streamline material handling and logistics within warehouses. Unlike conventional pallet truck AGVs, our Closed Pallet Truck AGV X20S is uniquely engineered to handle closed pallets, bringing unprecedented efficiency and versatility to your warehouse operations.

## Features



### Environment Adaptive

With laser navigation and positioning, there's no need to renovate the on-site environment.



### Highly Intelligent

A whole range of functions such as mapping, path planning, auto-charging, and intelligent operations for various scenarios.



### Non-stop pallet position detection

Visual position detection and non-stop pallet pose identification can realize fast & accurate pickup and placement of goods.



### Intelligent Safety

Comprehensive fault self-detection  
360° obstacle avoidance and acoustic warning.

# Scenarios

## Floor-to-Floor transportation

It has 2 tons load capacity and is compatible with various types of pallets, such as 2-way pallet, 4-way pallet and POD pallet.



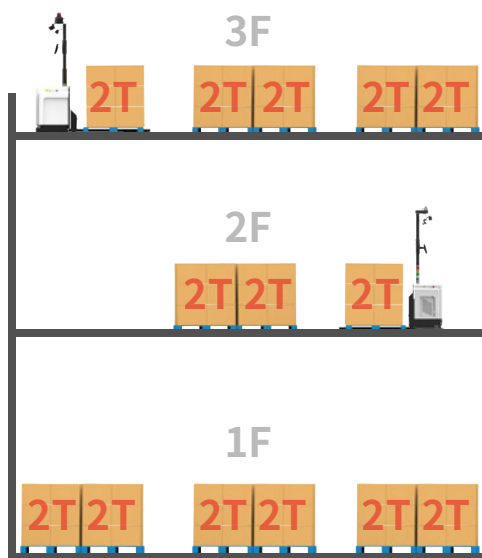
## Inter-floor transportation

It can change floors by taking the elevator and docking with the elevator control system.



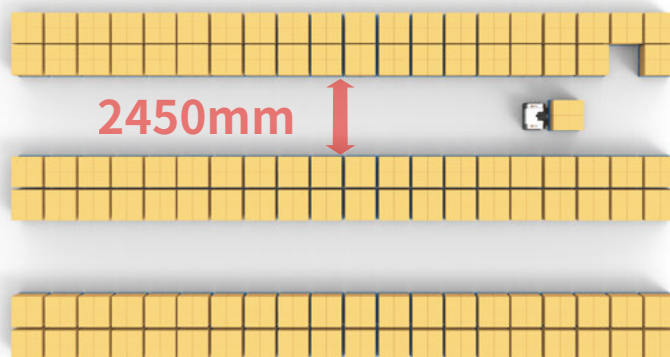
## Low requirement of ground bearing capacity

With a self-weight of 580kg, it is light and suitable for low load-bearing floors, up & down-stairs handling scenarios.



## Material handling in very narrow aisle

The required minimum aisle width is only 2450mm, which saves space and increases the warehouse storage capacity.



## The combination of field stacking and floor handling reduces the cost of program introduction.



Co-operation of loading and unloading from high-level racks

Multi-layer stacking collaborative operation



Production line docking collaborative operation

Co-operation of loading and unloading from trucks



# WeFrontX20S



## Specifications

Model		X20S
Basic Parameter	Navigation	LiDAR Navigation / Sky Navigation / Mixed Navigation
	Communication	Wi-Fi / 5G / Optical Communication
	Driving Features	Forward, Reverse, and Turn
	Control Mode	Auto/Manual
	Rated Load	2000 kg(4409 lbs)
	Lifting Height	210 mm(8 in)
	Weight	580 kg(1278 lbs)
	Turning Radius	1540 mm(60 in)
	Aisle Width for 1200(entry size)*1000mm Pallet	2450 mm(96 in)
	Dimensions L×W×H	1747×900×(1940/2140/2340) mm(68×35×76/84/92 in)
Movement Specifications	Fork Dimensions l×exs	1150×173×65 mm(45×7×2 in)
	Max Driving Speed (No Load/Full Load)	1.3m/s / 1.1m/s(2.9 mph/2.5 mph)
	Positioning Accuracy	±10 mm(±0.4 in)
	Cross-Groove Capability	≤30 mm(≤1.2 in)
	Climbing Capacity	≤3°
Safety Protection	Obstacle Surmounting Capability	≤10 mm(≤0.4 in)
	Path Deviation Protection, Positioning Fault Protection	●
	Component Fault Protection, Communication Fault Protection	●
	Bottom Obstacle Avoidance LiDar	●
	3D Safety Curtain	●
	Fork Head Anti-Collision Detection	●
	Bumper Strip	●
	Emergency Stop Button	●
	Acoustic Warning	●
	Pedestrian Light	●
Battery Specifications	HMI	●
	Battery Voltage/Capacity (V/Ah)	48V/40Ah
	Run time	6~8h
	Battery Life	Complete charge-discharge 2500 times ≥70%

Note: In the real-time update of product parameters, the above parameters are for reference only and shall prevail.

### Carrier



2-way pallet



4-way pallet



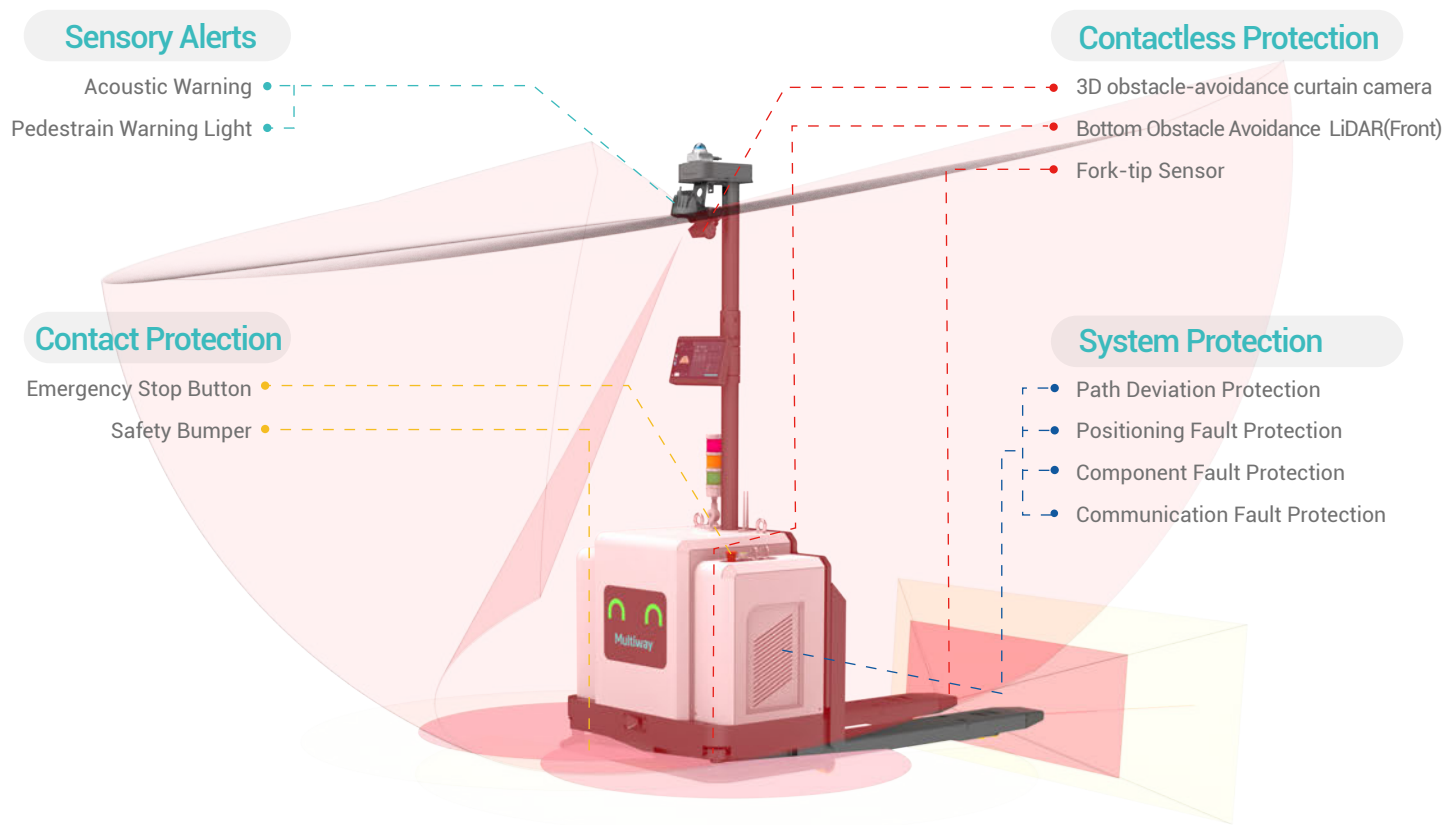
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Cart

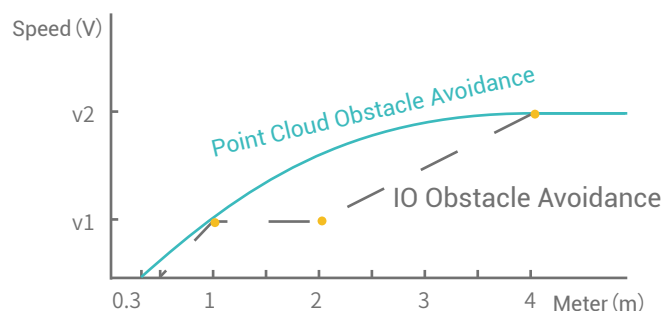
# Comprehensive safety protection:

Acoustic+physical, 360° protection



## Point Cloud Obstacle Avoidance:

The forward simulation algorithm can measure the distance to obstacles, autonomously adjust the moving speed, ensure the vehicle accelerates and decelerates smoothly without sudden changes in speed.



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