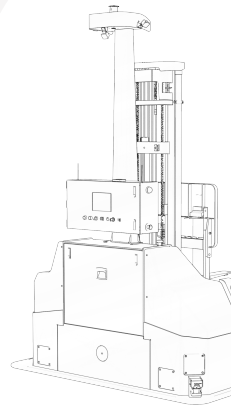
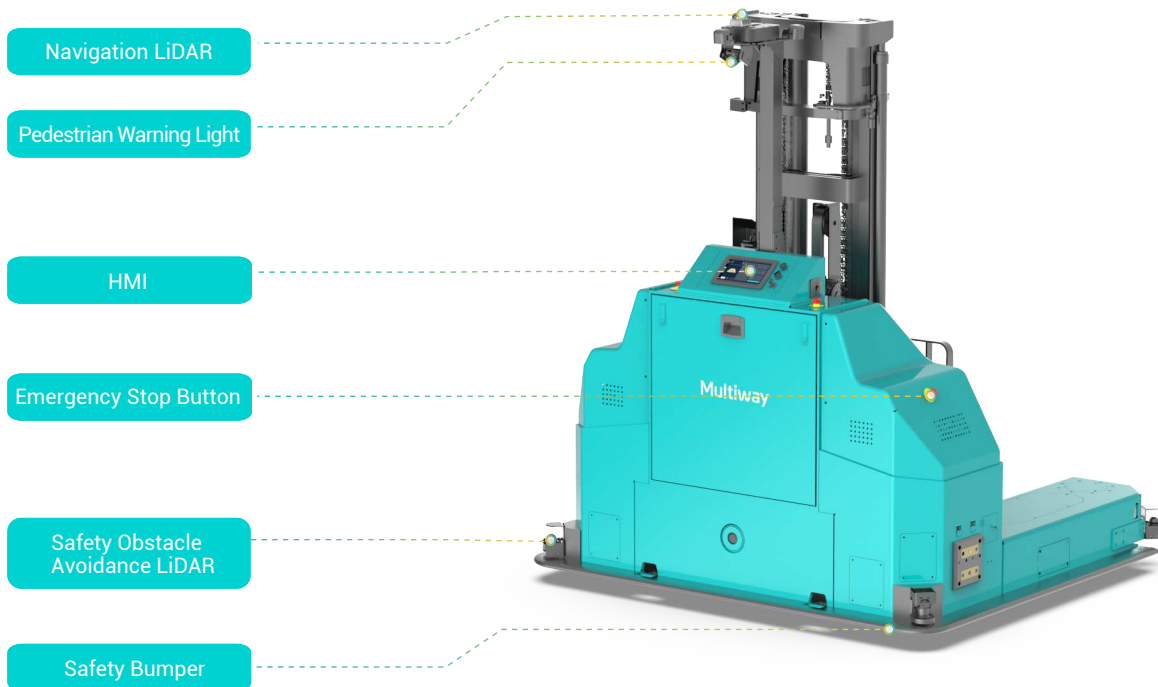


# O Series

## Sideloader Unmanned Forklift Truck

015/020/030/040/050/080





## Introduction

Sideloader Forklift MW-O Series is widely used in ground handling and high-position loading/unloading in multiple scenarios, like high-density and VNA (Very Narrow Aisle) storage. Its biggest feature is that the fork extends from the side, and allows barrier-free operation in very narrow aisle, maximizing aisle space savings. With a load capacity of up to 8000 kg, a lifting height of up to 8000 mm, high precision of  $\pm 10\text{mm}$ , MW-O Series can ensure the safety and stability of high-position stacking and loading/unloading, greatly improves the storage capacity rate.

## 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.



### Dense Storage

The narrowest roadway is only 2.3 meters



### Intelligent Safety

Comprehensive fault self-detection  
360° obstacle avoidance and sound & light warning

# Scenarios



## Long materials handling

Suitable for handling and stacking long volume materials such as metal, steel, pipe, wood, etc. Effectively avoid the problem of space occupation by using ordinary forklifts.



## Automatic (un)loading

Compatible multiple models (wing door, flat door). Compatible with multiple sizes of cargo (automatic allocation).



## Narrow roadway handling

MW-O Series is widely used in ground handling and high-position loading/unloading in multiple scenarios, such as high-density and VNA (Very Narrow Aisle) storage.



## Large tonnage material handling

Its biggest feature is that the fork extends from the side, and allows barrier-free operation in very narrow aisle, maximizing aisle space savings; With a load capacity of up to 8000 kg, a lifting height of up to 8000 mm, greatly improves the storage capacity rate.

# O Series

015/020/030/040/050/080  
Sideloader Unmanned  
Forklift Truck

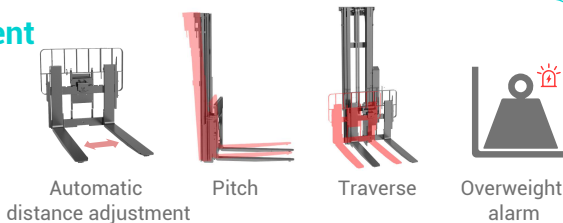


## Specifications

	Model	O Series
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 (kg)	1500~5000 kg (Custom Load Capacity: Max Supports 8000 kg)
	Load Center C (mm)	600
	Weight (Including battery) (kg)	2600~8180 kg
	Turning Radius (mm)	1087~1700 mm
	Aisle Width (mm)	2300~2800 mm
	Maximum Lifting Height (mm)	8000 mm
	Dimensions L×W×H (mm)	O15 -1993 x 1628 x (2350~2980) mm O20-2287x2108x (2350~3444) mm ...
	Fork Dimensions l×w×h (mm)	O15 -1220x122x45 mm O20 -1220x122x45 mm ...
	Fork Outer Space b3 (mm)	600 mm/620 mm
Movement Specifications	Minimum Height of Fork From the Ground h6 (mm)	55±5
	Positioning precision/ Stop Angle (Center of bearing wheel) (mm/ °)	±10
	Obstacle Clearing Capability	≤10
	Climbing Capacity	≤3° (5%)
	Cross-Groove Capability (mm)	≤30
	Max Driving Speed (No Load/Full Load) (m/s)	1.38/1.5
	Max Lifting Speed (No Load/Full Load) (mm/s)	330 mm/s
	Max Descent Speed (No Load/Full Load) (mm/s)	230 mm/s
Battery Specifications	Mast Forward speed (No Load/Full Load) (mm/s)	120 mm/s
	Max Climb Capability (No Load/Full Load) (S2-5min) % (tanθ)	≤5°
	Battery Voltage/Capacity (V/Ah)	O15/O20-24V300Ah O30-48V300Ah ...
	Charging Mode	Auto/Manual
Run time	6~8h	
Battery Life	Complete charge-discharge 2500 times ≥80%	

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

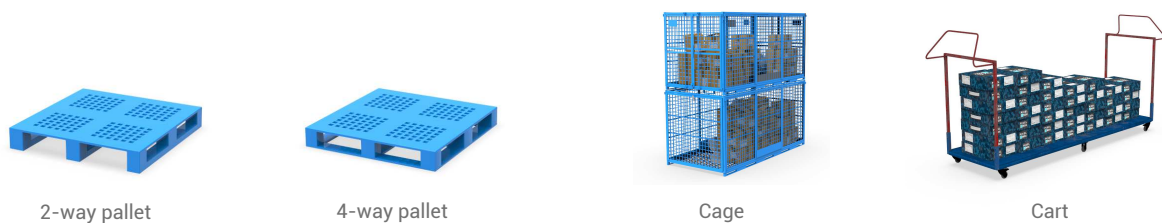
### Attachment



### Customize

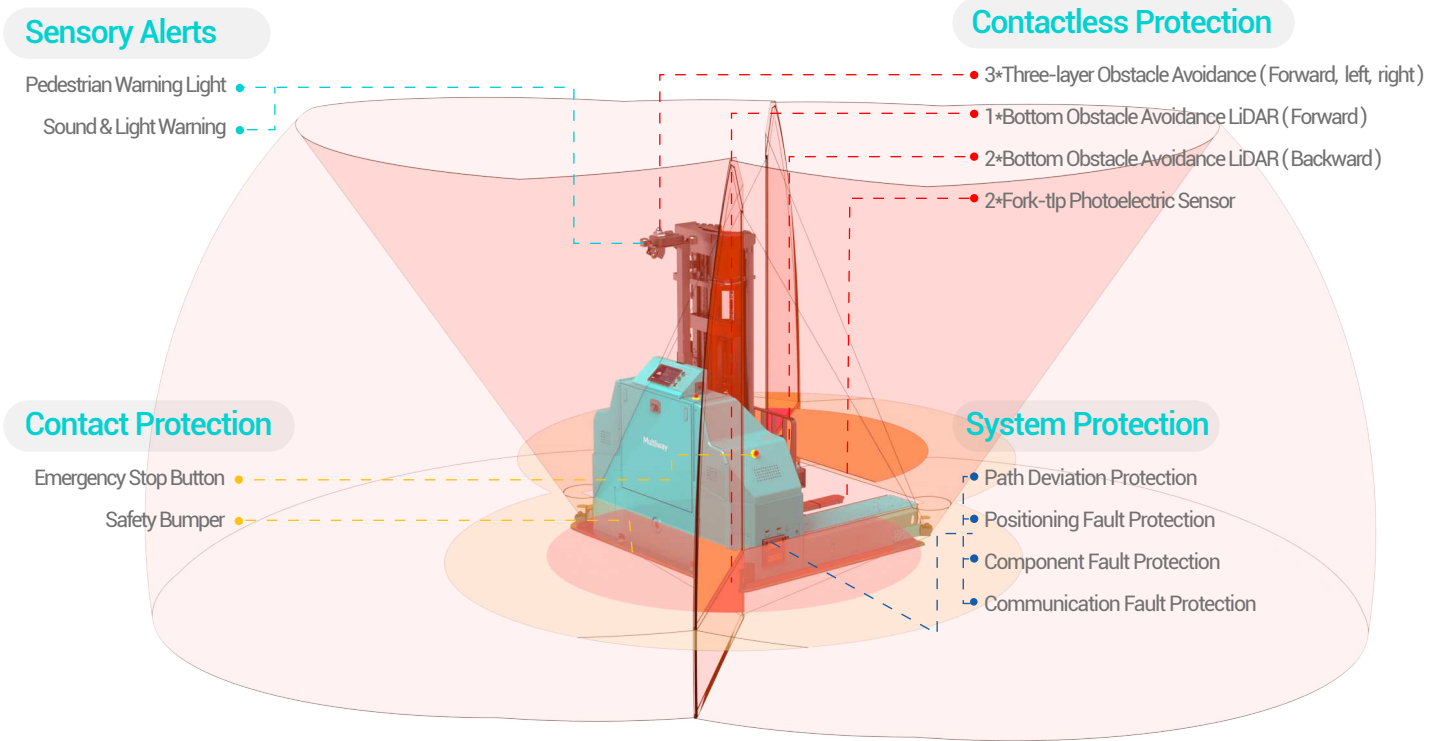


### Carrier



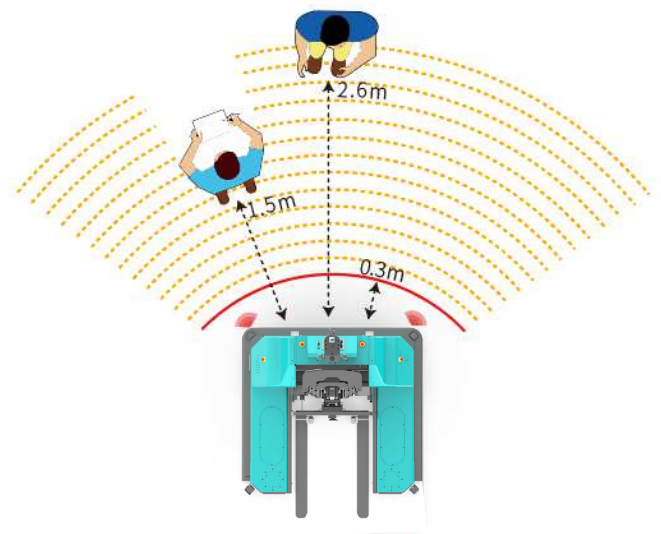
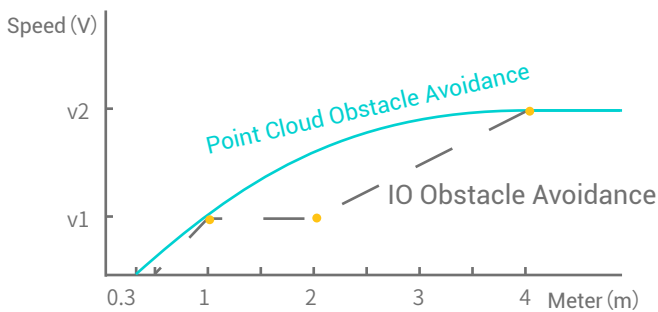
# Comprehensive safety protection:

Sound perception + obstacle avoidance + touch reception, 360° omnidirectional three-layer protection



## Point Cloud Obstacle Avoidance:

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



# Multiway Robotics

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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. 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 Cloud, 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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