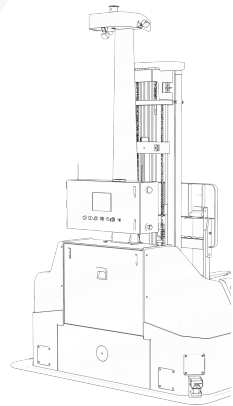
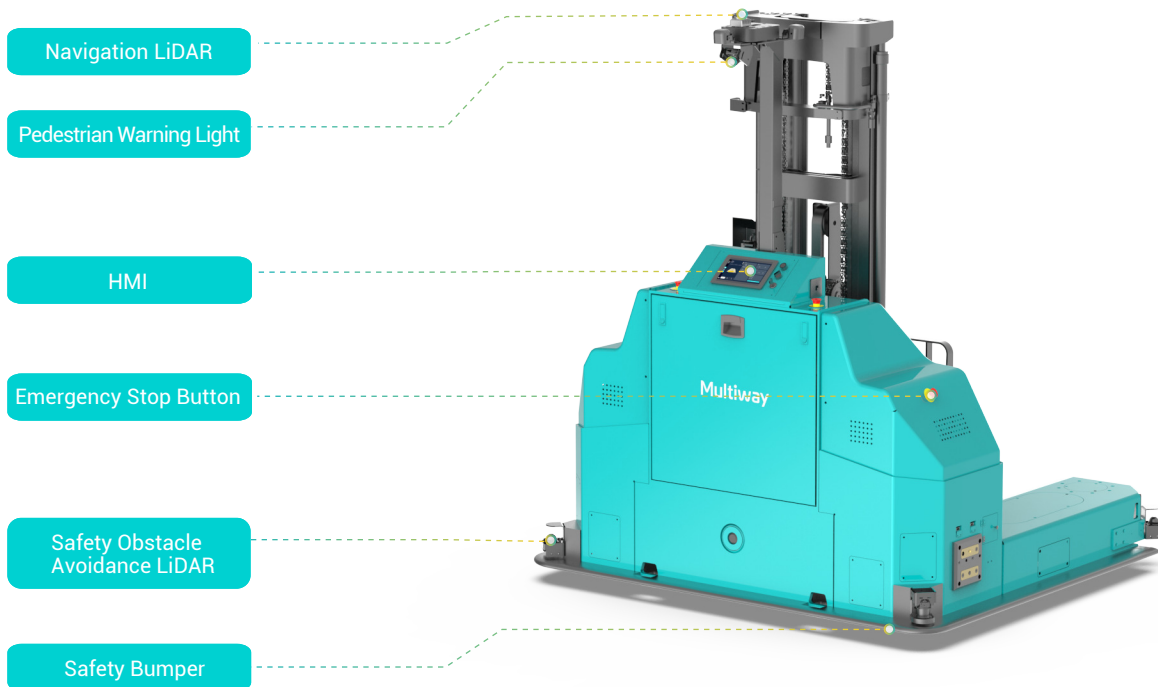


O Series

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

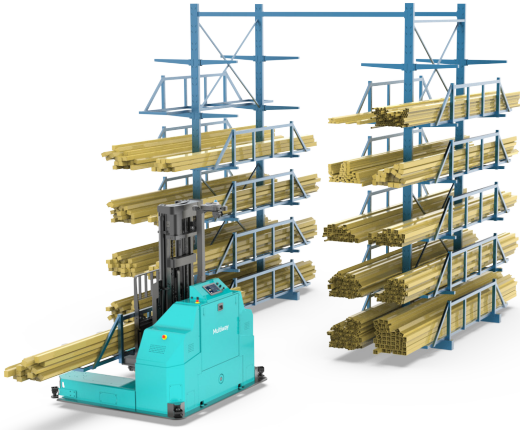
The narrowest roadway is only 2.3 meters



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 Sideloader Unmanned Forklift Truck

015/02/030/040/050/080



Specifications

Model	015	020
Navigation	LiDAR Navigation(3D SLAM) / Mixed Navigation	
Communication	Wi-Fi / 5G / Optical Communication	
Driving Features	Forward, Reverse, and Turn	
Control Mode	Auto/Manual	
Rated Load (kg)	1500	2000
Load Center C (mm)	500	500
Turning Radius (mm)	1087	1530
Maximum Lifting Height (mm)	4500	6500
Fork Dimensions l x e x s (mm)	1220x122x40	1220x100x45
Fork Outer Space b3 (mm)	620	600
Aisle Width (mm)	2300	2600
Weight (Including battery) (kg)	2600	2960~3160
Weight (Including battery) (kg)	1993x1628x(2350~2980)	2287x2108x(2350~3444)
Minimum Height of Fork From the Ground h6 (mm)	50±5	55±5
Positioning precision (mm)		±10
Stop Angle (°)		±1
Obstacle Clearing Capability (mm)		≤10
Climbing Capacity (°)		≤2°(3%)
Cross-Groove Capability (mm)		≤30
Max Driving Speed (No Load/Full Load) (m/s)		1.5/1.38
Max Lifting Speed (No Load/Full Load) (mm/s)	140/100	100/65
Max Descent Speed (No Load/Full Load) (mm/s)	95/100	95/100
Battery Type	Lithium Iron Phosphate	
Battery Voltage/Capacity (V/Ah)	24V/300Ah	
Charging Mode	Auto/Manual	
Run time	8~10h	
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.

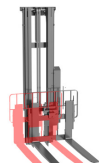
Attachment



Automatic distance adjustment



Pitch



Traverse



Overweight alarm

Customize

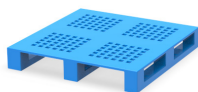


Explosion-proof

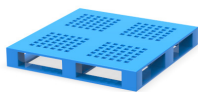


Cold chain

Carrier



2-way pallet



4-way pallet



Cage



Cart

O Series

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



技术参数

Model	O30	O40	O50
Navigation	LiDAR Navigation(3D SLAM) / Mixed Navigation		
Communication	Wi-Fi / 5G / Optical Communication		
Driving Features	Forward, Reverse, and Turn		
Control Mode	Auto/Manual		
Rated Load (kg)	3000	4000	5000
Load Center C (mm)	600	600	600
Turning Radius (mm)	1650	1605	1700
Maximum Lifting Height (mm)	8000	8000	8000
Fork Dimensions l x e x s (mm)	1220x125x50	1220x150x50	1220x150x50
Fork Outer Space b3 (mm)	600	620	620
Aisle Width (mm)	2650	2800	2800
Weight (Including battery) (kg)	4770~5120	6180~6820	7640~8180
Weight (Including battery) (kg)	2322x2406x (2350~3562)	2300x2435x(2542~3811)	2300x2440x(2550~3832)
Minimum Height of Fork From the Ground h6 (mm)	60±5	60±5	60±5
Positioning precision (mm)	±10		
Stop Angle (°)	±1		
Obstacle Clearing Capability (mm)	≤10		
Climbing Capacity (°)	≤2° (3%)		
Cross-Groove Capability (mm)	≤30		
Max Driving Speed (No Load/Full Load) (m/s)	1.5/1.38		
Max Lifting Speed (No Load/Full Load) (mm/s)	220/200	150/250	210/330
Max Descent Speed (No Load/Full Load) (mm/s)	200/260	195/160	305/230
Battery Type	Lithium Iron Phosphate		
Battery Voltage/Capacity (V/Ah)	48V/300Ah	48V	80V
Charging Mode	Auto/Manual		
Run time	6~8h	/	/
Battery Life	Complete charge-discharge	/	/

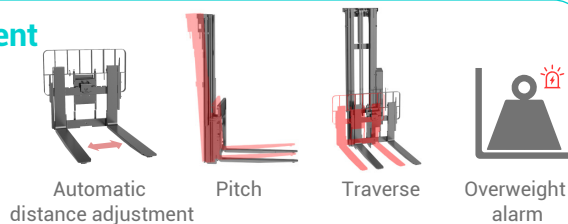
Battery Specifications

Movement Specifications

Battery Specifications

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

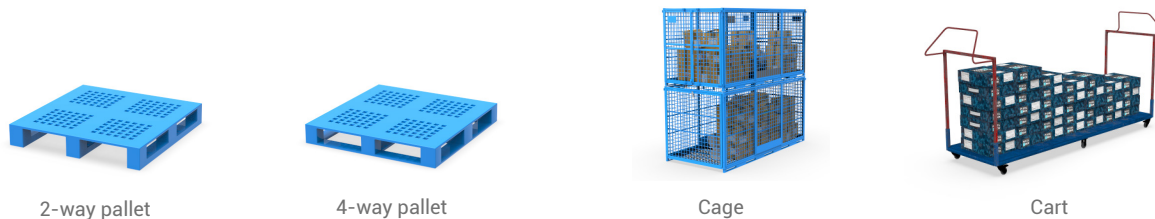
Attachment



Customize

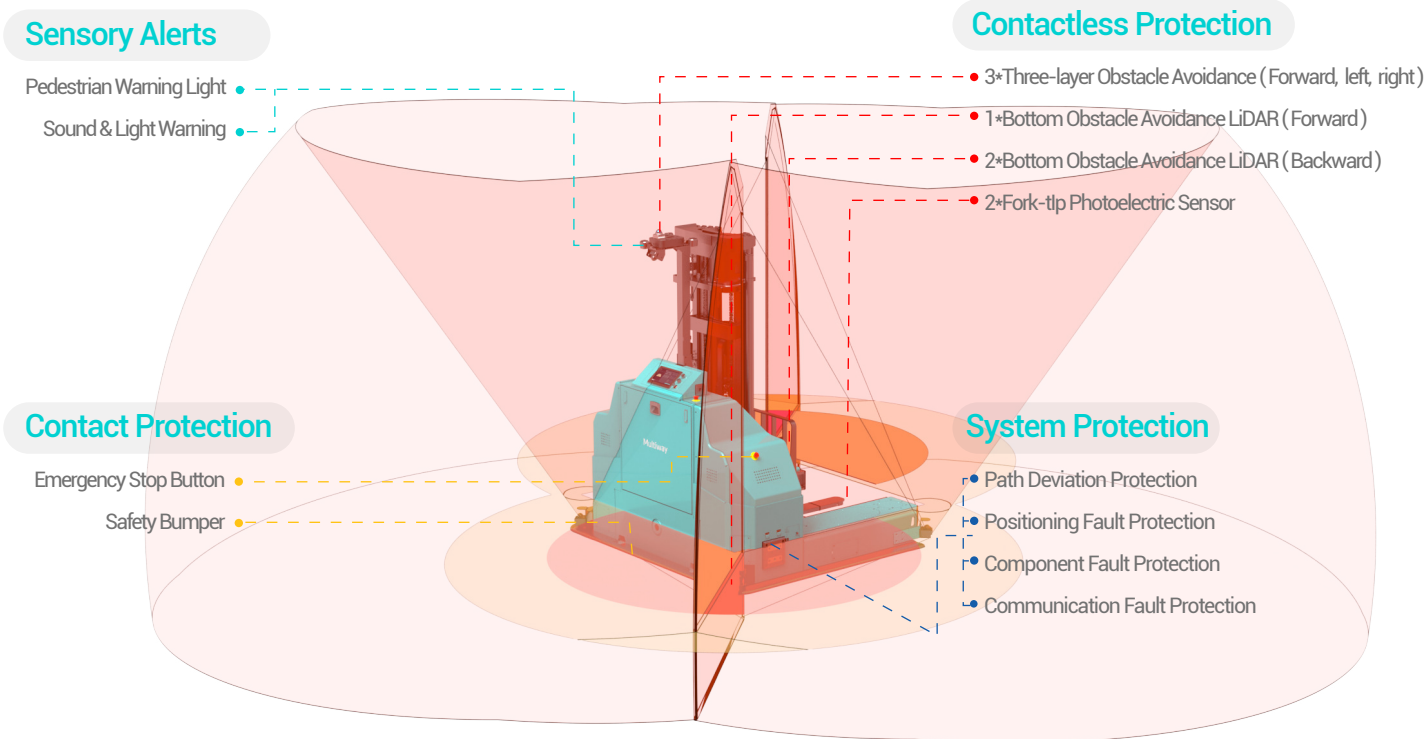


Carrier



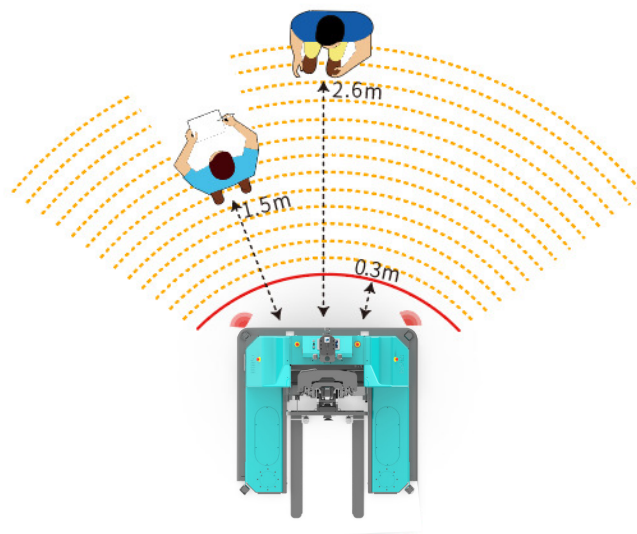
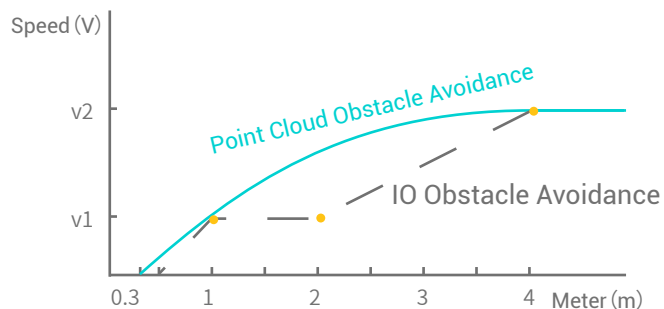
Comprehensive safety protection:

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

Multiway Robotics is committed to "Empowering the World with Billions of Robots" and takes "To create a new and efficient operating mode" as its mission, continuously driving the advancement of global productivity.

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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