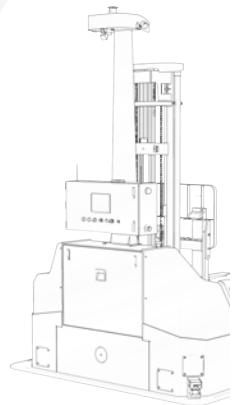
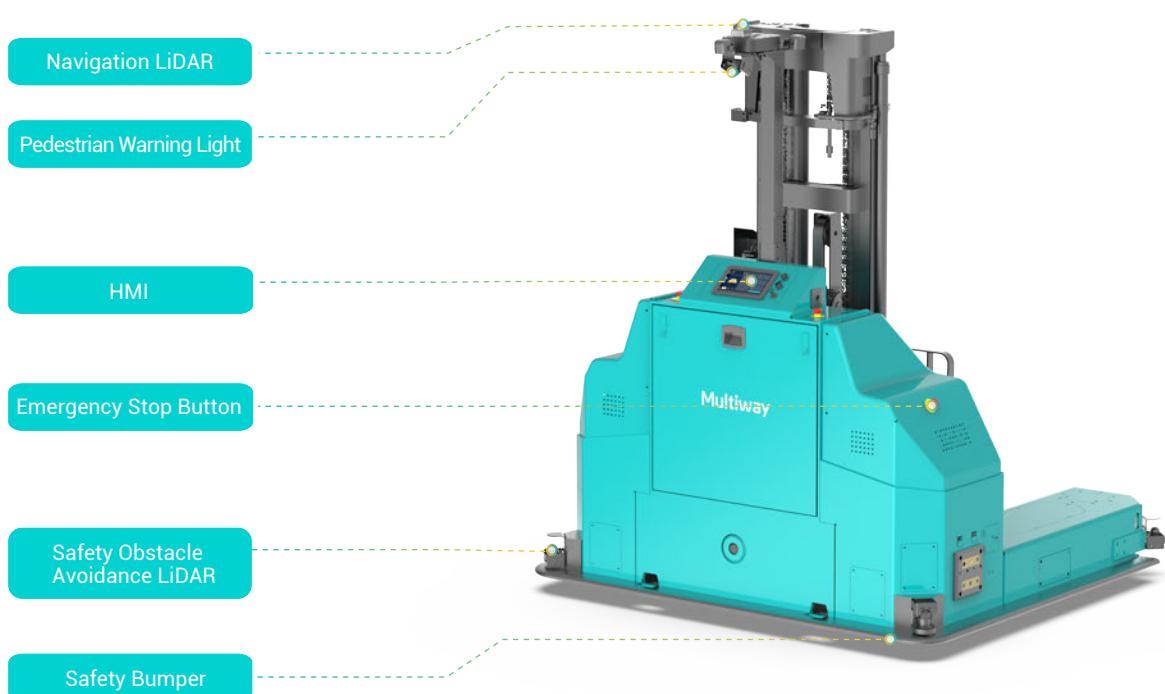


O Series

Sideloader Unmanned Forklift Truck

015/020/030





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 3000 kg, a lifting height of up to 8000 mm, high precision of ± 10 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 3000 kg, a lifting height of up to 8000 mm, greatly improves the storage capacity rate.

0 Series

015/020/030
Sideloader Unmanned Forklift Truck

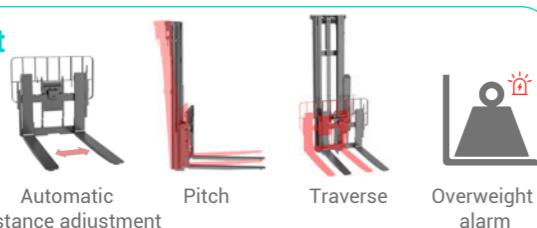


Specifications

Model	015	020	030
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 Q (kg)	1500	2000	3000
Load Center C (mm)		500	
Basic Parameter			
Weight (Including battery) (kg)	2200~2400	2960~3160	4770~5120
Turning Radius Wa (mm)	1087	1530	1650
Aisle Width (mm)	2300	2600	2650
Maximum Lifting Height (mm)	4500	6500	8000
Dimensions LxWxH (mm)	1993x1628x (2350~2980)	2287x2180x (2350~3444)	2322x2406x (2350~3562)
Fork Dimensions lxe _{xs} (mm)	1220x122x40	1220x100x45	1220x150x50
Fork Outer Space b ₃ (mm)	620	600	600
Minimum Height of Fork From the Ground h ₆ (mm)	50±5	55±5	60±5
Positioning precision/ Stop Angle (Center of bearing wheel) (mm/ °)		±10±1	
Obstacle Clearing Capability		≤10	
Climbing Capacity		≤3° (5%)	
Movement Specifications			
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)	140/100	100/65	220/200
Max Descent Speed (No Load/Full Load) (mm/s)		95/100	200/260
Mast Forward speed (No Load/Full Load) (mm/s)	100/100		120/120
Max Climb Capability (No Load/Full Load) (S2-5min) % (tanθ)		≤5°	
Battery Specifications			
Battery Voltage/Capacity (V/Ah)	24V/300AH	24V200AH	48V/300AH
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.

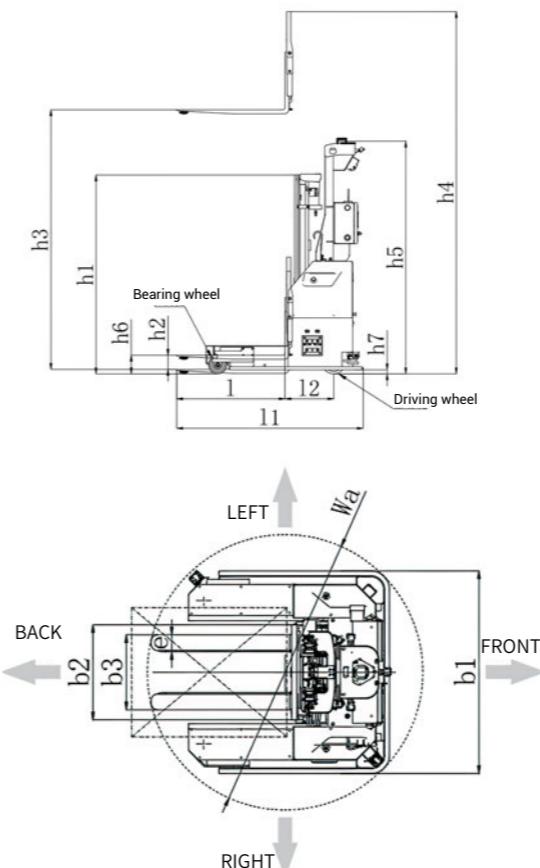
Attachment



Customize



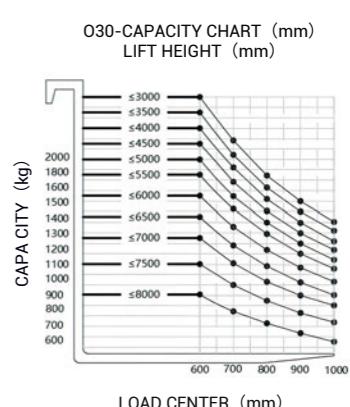
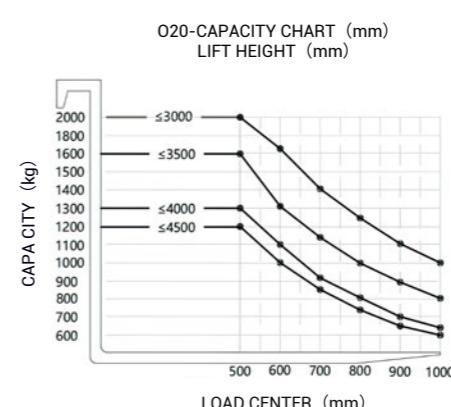
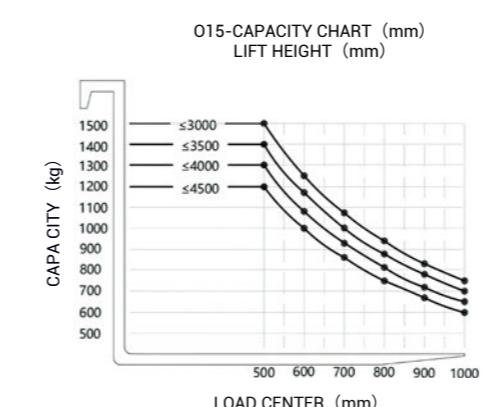
Carrier



Mast Specification

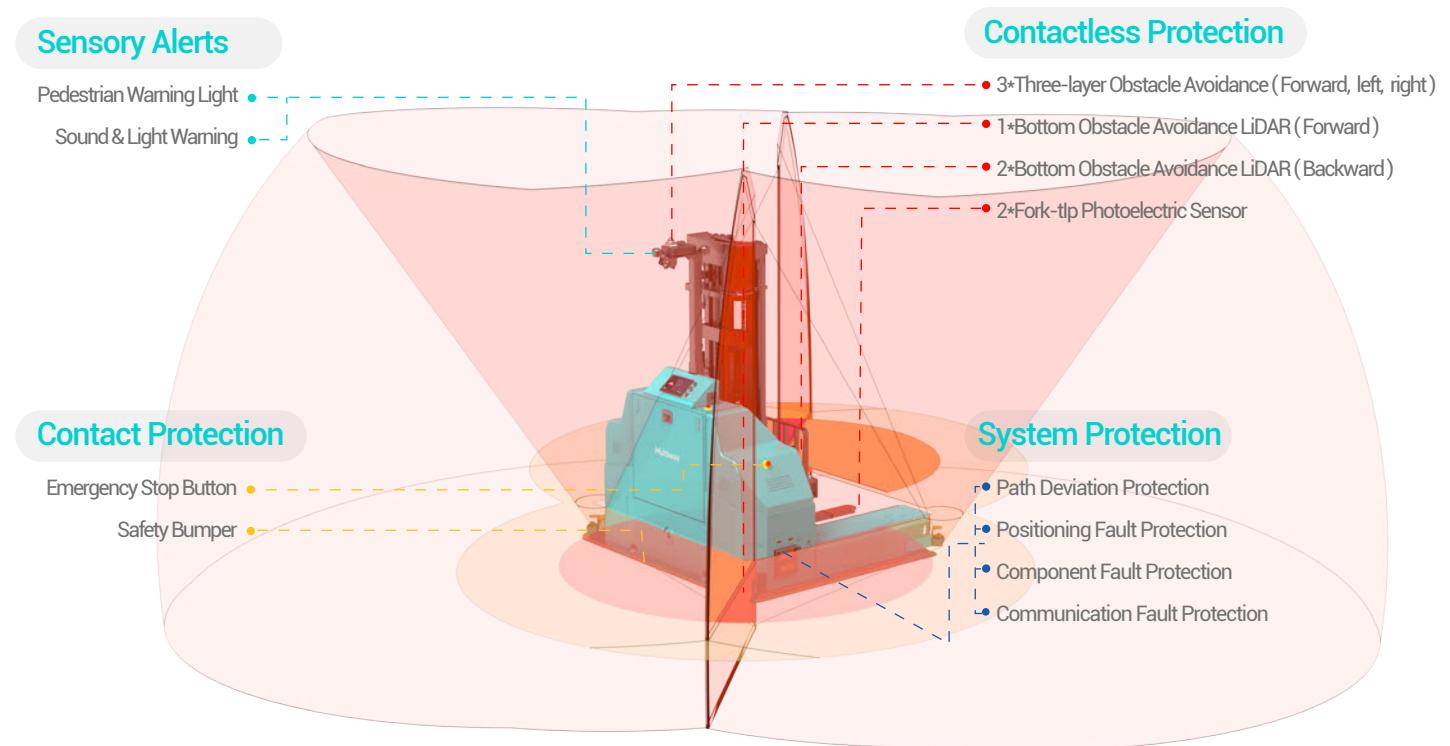
Duplex Mast											
Model		015/020							030		
Lifting height	h ₃ (mm)	2500	3000	3300	3500	3700	4000	4500	3000	3300	3500
Mast closure height	h ₁ (mm)	1980	2230	2380	2480	2580	2730	2980	2750	2900	3000
Mast height when lifting	h ₄ (mm)	3427	3927	4227	4427	4627	4927	5427	4200	4050	4550
Free lifting height	h ₂ (mm)							0			

Load curve



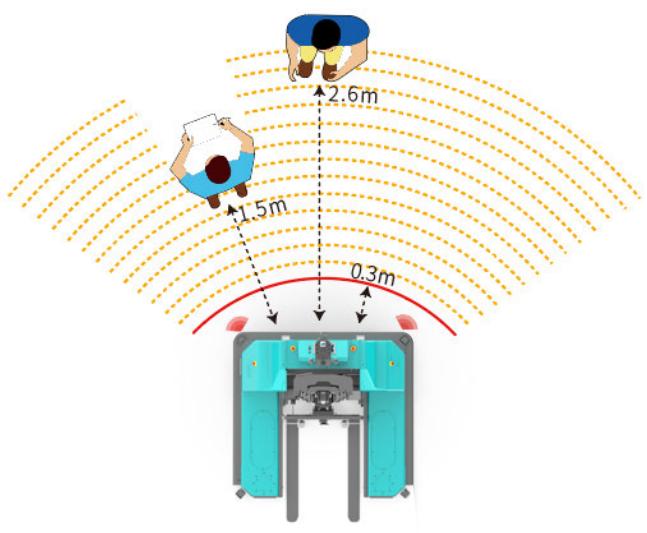
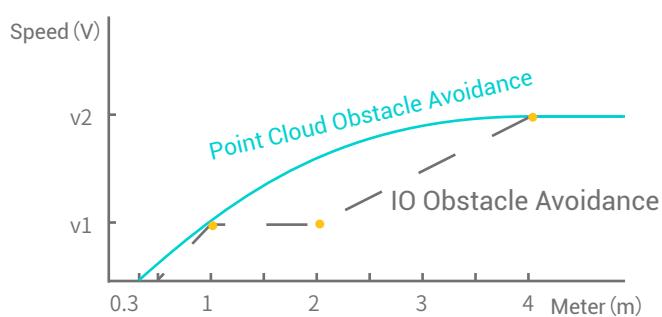
Comprehensive safety protection:

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, 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 Multiway Cloud, 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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