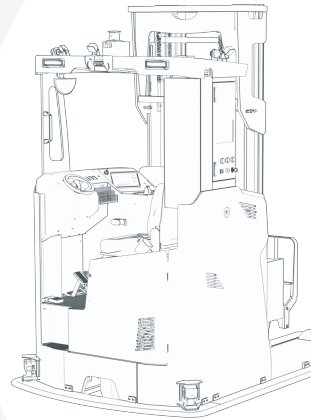
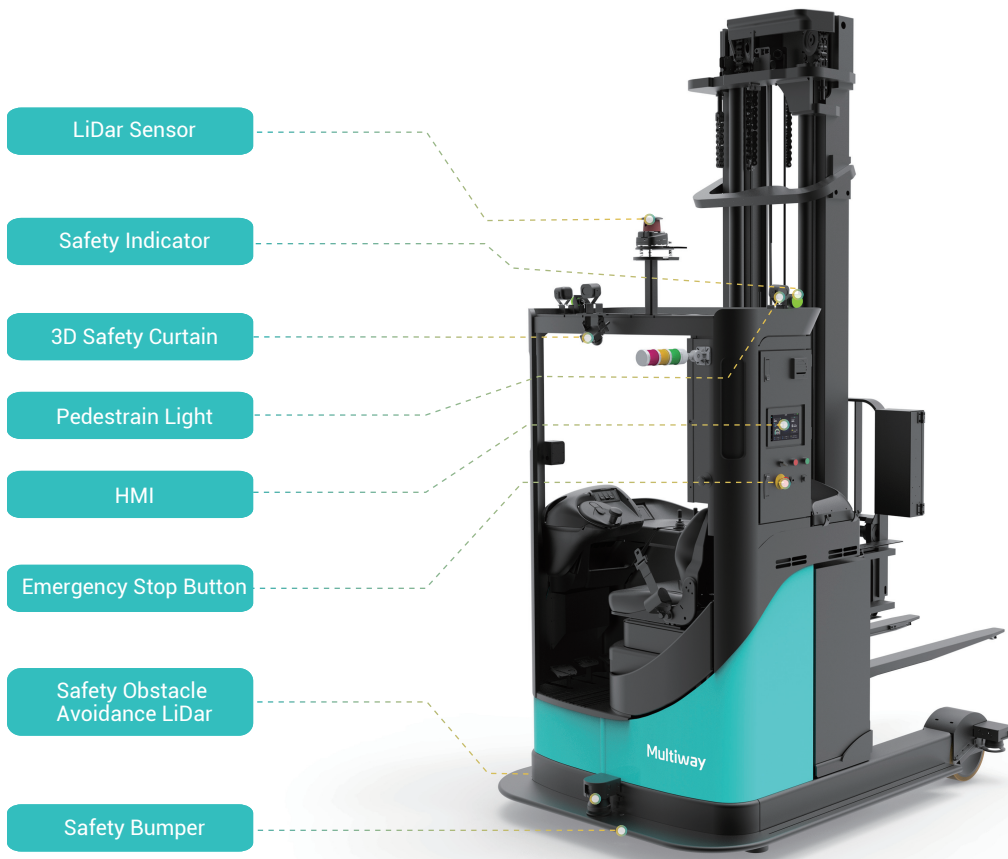


R Series Reach Truck

R16





Introduction

The R-series Autonomous Reach Truck is suitable for automatic intermediate transfer and handling of goods between different positions for various types of pallet carriers. It supports a maximum load of 2500kg and a lifting height up to 9000mm. It can meet the requirements of high stacking operations, with advantages such as fast operation speed, good climbing ability, and strong compatibility with carriers. It is widely used in scenarios such as line integration, goods stacking, shelf access, and automatic loading and unloading.

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 perception non-stop pallet pose identification can realize fast and accurate pickup and placement of goods.



Intelligent Safety

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

R Series R16 Reach Truck



Specifications

Model	R16
Navigation	LiDAR Navigation(3D SLAM) / Mixed Navigation
Communication	Wi-Fi/ 5G/ Optical Communication
Driving Features	Forward, Reverse, and Arc
Control Mode	Auto/Manual
Rated Load (Q)	1600 kg(4850 lbs)
Load Center (C)	600 mm (24 in)
Weight (Including battery)	3010~3390 kg(6636~7474 lbs)
Turning Radius	1710 mm (67.3 in)
Aisle Width	3100 mm (122.0 in)
Maximum Lifting Height	9500 mm (374 in)
Dimensions (L×W×H)	2555x1455x(2350~3910)mm 100.6 × 57.3 × 92.5–154.0 in
Fork Dimensions (l×e×s)	1150x100x45 mm 45x4x2 in
Fork Rack Width (b2)	830 mm (33 in)
Fork Spread Outer (b3)	316~710 mm (12~28 in)
Minimum Height of Fork From the Ground (h6)	50±5 mm (2±0.2 in)
Positioning precision (Center of bearing wheel)	±10mm (±0.4 in)
Obstacle Clearing Capability	≤10 mm (≤0.4 in)
Cross-Groove Capability	≤30 mm (≤1.2 in)
Max Driving Speed (No Load/Full Load) (m/s)	2m/s / 1.5m/s(78 in/s 59 in/s)
Max Climb Capability (No Load/Full Load) (S2-5min) % (tanθ)	≤3°
Battery Voltage/Capacity (V/Ah)	48V/450AH
Run time	8~10h
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.

Attachment



Pitch



Traverse



Automatic fork spread adjustment



Overweight alarm

Customize

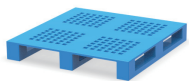


Explosion-proof

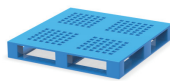


Cold chain

Carrier



2-way pallet



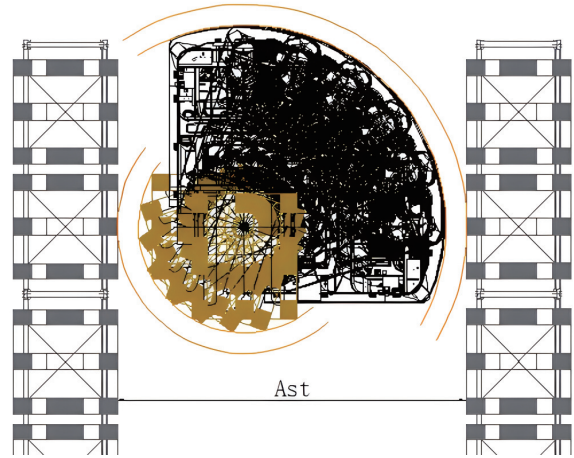
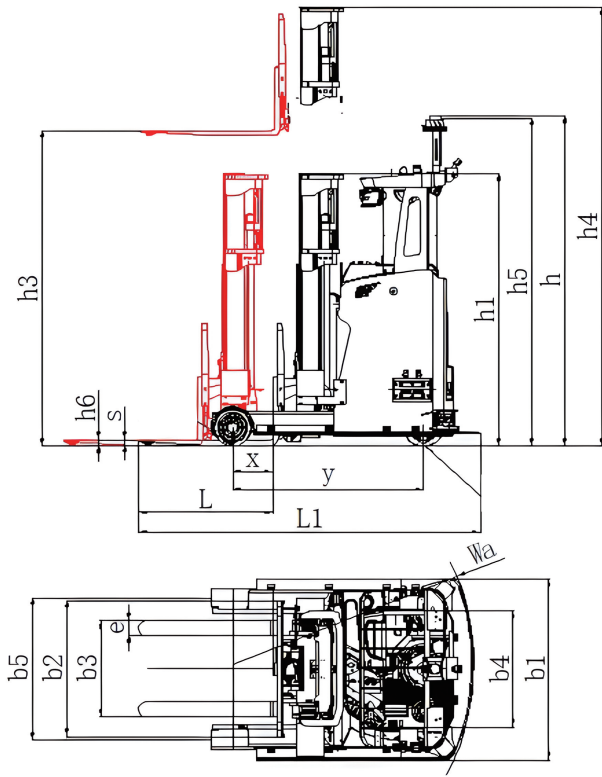
4-way pallet



Cage



Cart



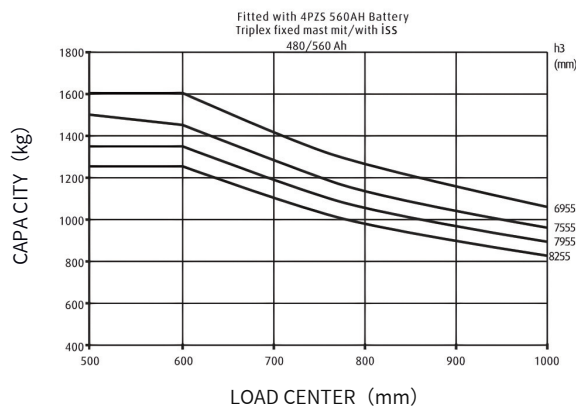
Aisle Width		
Model		R16
1000 ↑ x1000mm Pallet 39 ↑ x39 in Pallet	AST(mm) AST(in)	3050 120
1000 ↑ x1200mm Pallet 39 ↑ x47 in Pallet		3200 126
1200 ↑ x1200mm Pallet 47 ↑ x47 in Pallet		3250 128

Mast Specification

Triplex Mast

Model		R16										
Lifting height	h3 (mm) (in)	4655 183	5155 203	5755 227	6255 246	6655 262	7255 286	7555 297	8555 337	8955 353	9155 360	9455 372
Mast closure height	h1 (mm) (in)	2110 83	2476 97	2476 97	2910 115	2910 115	3376 133	3376 133	3910 154	3910 154	3910 154	3910 154
Mast height when lifting	h4 (mm) (in)	5395 212	5898 232	6495 256	6995 275	7395 291	7992 315	8295 327	9295 366	9695 382	9895 390	10195 401
Free lifting height	h2 (mm) (in)	1261 50	1627 64	1627 64	2061 81	2061 107	2527 139	2527 139	3061 121	3061 121	3061 121	3061 121

Load curve



Scenarios



Cold Storage Applications

Breaking through the -30°C automation handling requirements, adapting to high and low-temperature switching operations, the series of cold storage vehicle models comprehensively meet various logistics scenarios, including stacking of goods in cold storage and high-level access.



Automatic (un)loading

Compatible multiple models (wing gate, tail gate).
Compatible with multiple sizes of cargo (automatic allocation).



Cage Stacking

The motion trajectory is dynamically constructed to achieve accurate stacking of up to 6 layers of material cages. It is also equipped with safety technology detection to ensure operating safety.

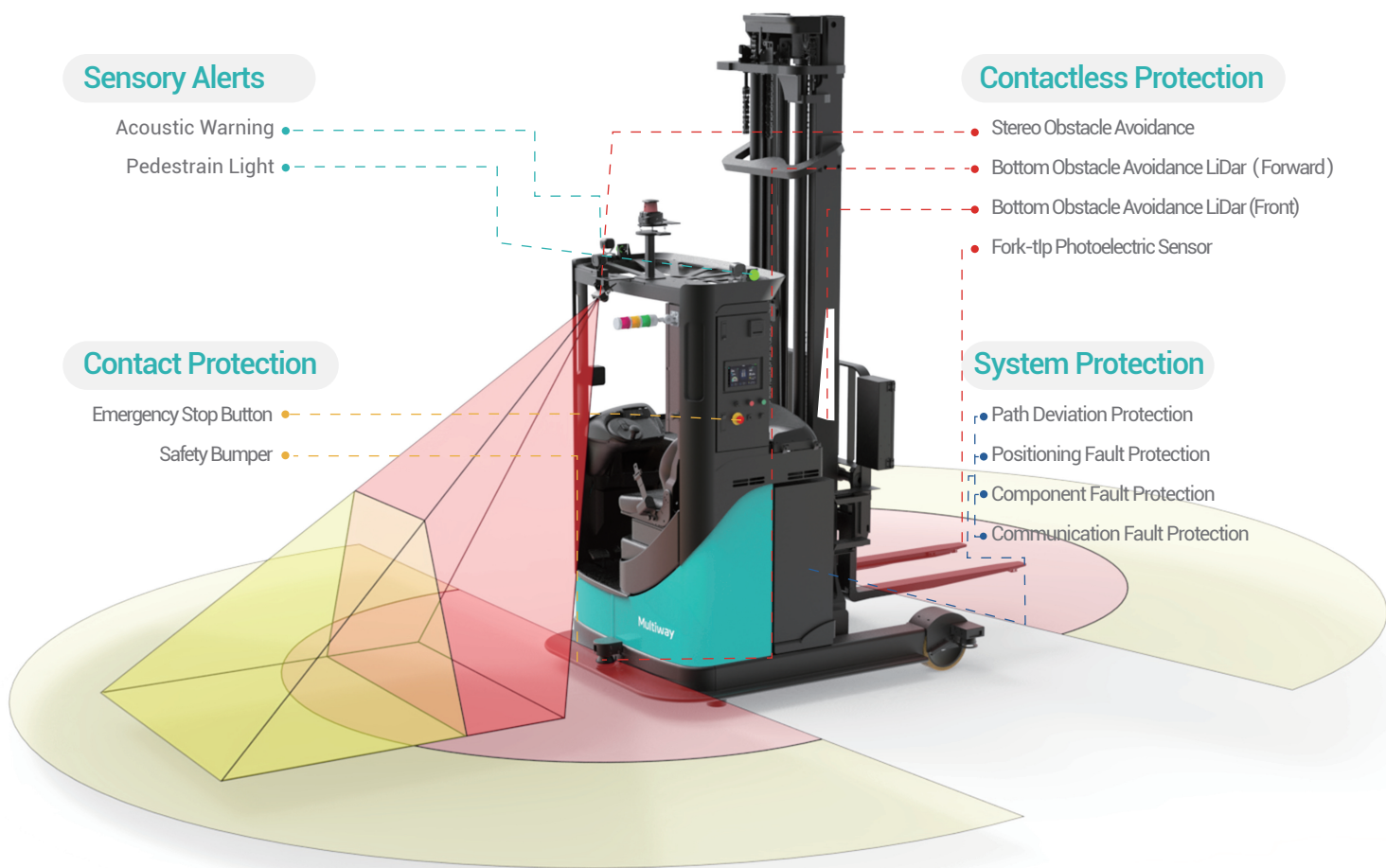


High-level Access

The maximum lifting height can reach 10m, enabling quick identification and correction of positional deviations, precise identification of cargo conditions, and avoiding hazards in high-level shelf operations.

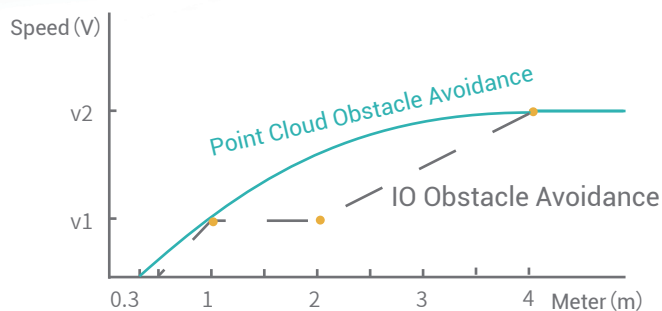
Comprehensive safety protection:

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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