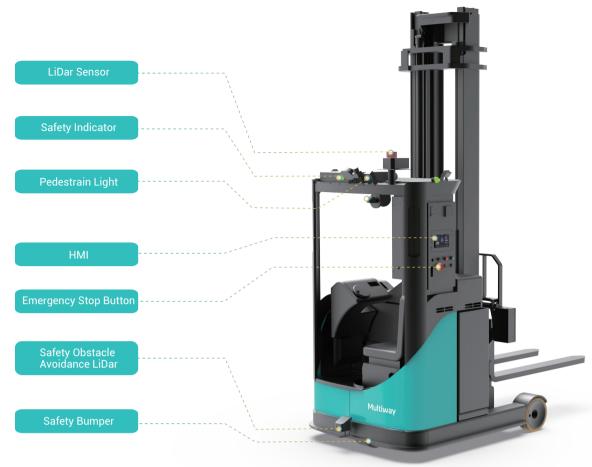
Multiway Robotics

Reach Truck

R14/R16/R20







Introduction

The R-series forward-moving unmanned forklift is suitable for automatic intermediate transfer and handling of goods between different positions for various types of entering fork-type carriers. It supports a maximum load of 2500kg and a lifting height of 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.



Non-stop pallet position detection

Visual perception non-stop pallet pose i dentification can realize fast and accurate pick-and-place of goods.



Highly Intelligent

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



Intelligent Safety

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

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.

Multiway Robotics

R Series Reach Truck



Specifications

	Model	R14	R16	R20				
	Navigation		SLAM					
	Communication	Wi-Fi/ 5G/ Optical Communication						
	Driving Features	Forward, Reverse, and Arc						
	Control Mode	Auto/Manual						
	Rated Load (Q)	1600	2000 kg	2000 kg				
	Load Center (C)		600mm					
	Weight (Including battery)	3010~3	3390kg	3375~3650 kg				
	Turning Radius (Wa)	1705 mm	1710mm	1940 mm				
Basic Parameter	Aisle Width	3200	3250 mm					
	Maximum Lifting Height	9000mm	9500	mm				
	Dimensions (L×W×H)	2550x1455x (23	2550x1455x (2350~3910) mm					
	Fork Dimensions (Ixexs)	1050x10	1050x100x40 mm					
	Fork Rack Width (b2)	790	830 mm					
	Fork Spread Outer (b3)	296~690 mm	10 mm					
	Minimum Height of Fork From the Ground (h6)		50±5 mm					
	Positioning precision (Center of bearing wheel)	±20 mm						
	Obstacle Clearing Capability	≤10 mm						
	Cross-Groove Capability	≤30 mm						
Movement Specifications	Max Driving Speed (No Load/Full Load) (m/s)	1.5/2						
	Max Climb Capability (No Load/Full Load) (S2-5min) $\%$ (tan θ)		≤3°					
	Battery Voltage/Capacity (V/Ah)		48V/450AH					
Battery Specifications	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.













Explosion-proof





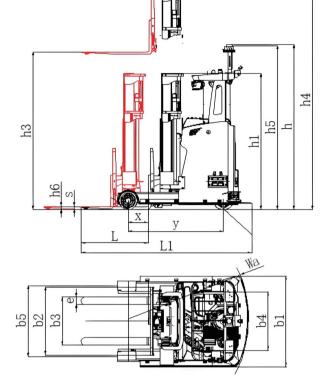


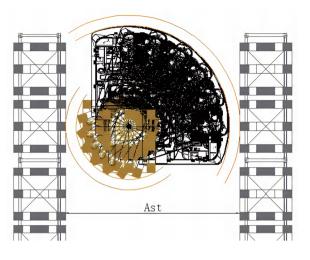








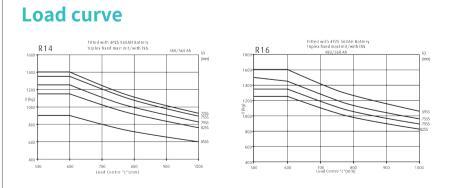


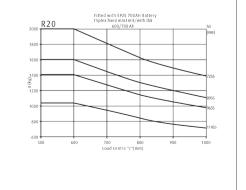


Aisle Width										
Model		R14	R16	R20						
1000↑x1000mm Pallet		3050	3050	3100						
1000↑x1200mm Pallet	AST(mm)	3200	3200	3250						
1200 ↑ x1200mm Pallet		3 250	3250	3300						

Triplex Mast															
R14HD -6355 to 8555mm; R16HD -6355 to 11455mm:R20-4355 to 11455mm; R20N-4355mm to 9455mm															
Lift	h₃	4355	4655	5155	5755	6355	6655	6955	7255	7555	7955	8255	8555	8955	9155
Free Lift	h ₂	1261	1627	1627	2061	2081	2081	2581	2581	2581	2581	2581	3081	3081	3081
Height of mast;lowerd	h ₁	2110	2476	2476	2910	2930	2930	3430	3430	3430	3430	3430	3930	3930	3930
height of mast; extended	h ₄	5095	5395	5895	6495	7139	7439	7739	8039	8339	8739	9039	9339	9739	9939

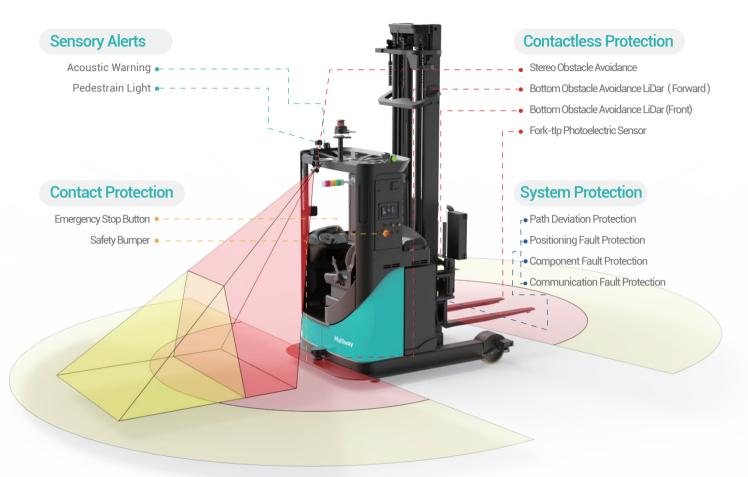
R14HD -6355 to 8555mm; R16HD -6355 to 11455mm:R20-4355 to 11455mm; R20N-4355mm to 9455mm										
Lift	h₃	9455	9655	9955	10155	10455	10655	10955	11155	11455
Free Lift	h ₂	3081	3081	3581	3581	3581	3581	4081	4081	4081
Height of mast; lowerd	hı	3930	3930	4430	4430	4430	4430	4930	4930	4930
height of mast; extended	h₄	10239	10439	10739	10939	11239	11439	11739	11939	12239





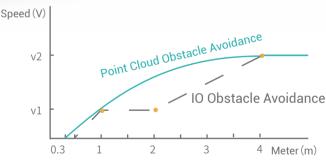
Comprehensive safety protection:

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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