

# VNR16(V)-01

## REACH TRUCK AGV

Reach truck design, suitable for beam rack, drive-in rack type and high rack storage scenarios.



**1.6T**  
Rated Load  
Capacity



**1.5m/s**  
Maximum  
Driving Speed

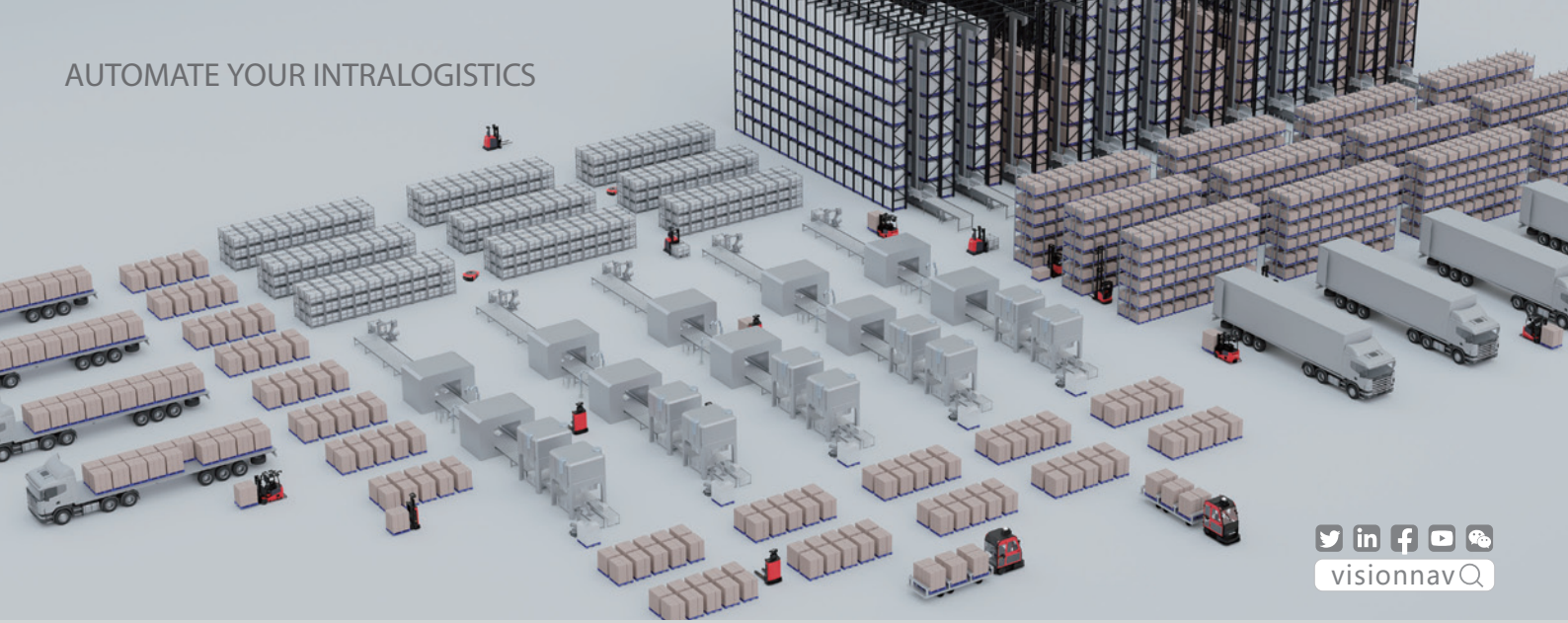


**8.25 m**  
Lift Height



**3100 mm**  
Min. Stacking  
Aisle Width

AUTOMATE YOUR INTRALOGISTICS



Fundamental Technical Parameters

Weight	3190kg (7032.75lb)
Dimensions (l1/b1/h1)	Gantry Retracts 2642x1587x3448mm (125.04x613.67x135.75in)
	Gantry Extends 3176x1587x3448mm (120.71x62.48x135.75in)
Fork Dimensions (l/e/s)	1115x100x45mm (43.89x3.94x1.78in)
Width over/between Forks (b5/b4)	710/486mm (27.95/19.13in)
Reach travel	534mm (21.02in)
Positioning Method	Vision-based Navigation (Optional 3D laser)
Perception Method	Laser Scanning
Goods Drop-off Self-adaptability	±20mm/±1° (±0.79in/±1°)
Goods Pick-up Self-adaptability	±100mm/±10° (±3.94in/±10°)

Fork Lift Height (h3)	8255mm (325in)
Rated Load Capacity (Q)	1600kg (3527.40lb)
Load Center (C)	600mm (23.62in)
Side shift travel	±80mm (3.15in)
Min Turning Radius (Wa)	1768mm (69.61in)
Stacking Accuracy	±20mm/±1° (±0.79in/±1°)
Type of Operation	Automatic / Manual Seated
Battery Type	LiFePO4
Voltage/Capacity	48V/400Ah
Charging Mode	Manual/ Automatic Charging

Motion Performance

Straight Forward (Full-Load/Empty-Load)	1.3m/s, 1.5m/s (2.91mph, 3.36mph)
Straight Backward (Full-Load/Empty-Load)	0.6m/s, 0.6m/s (1.34mph, 1.34mph)
Turning Forward (Full-Load/Empty-Load)	0.3m/s, 0.6m/s (0.67mph, 1.34mph)

Turning Backward (Full-Load/Empty-Load)	0.3m/s, 0.6m/s (0.67mph, 1.34mph)
Lift Speed (Full-Load/Empty-Load)	420mm/s, 660mm/s (0.94mph, 1.48mph)
Lower Speed (Full-Load/Empty-Load)	550mm/s, 450mm/s (1.23mph, 1.01mph)

Environmental Requirement

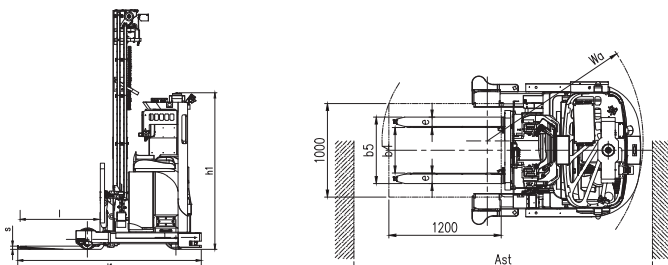
Min. Stacking Aisle Width (Pallet Size L*W: 1165*1165 mm)	3250mm (127.95in)
Min. Turning Aisle Width (Pallet Size L*W: 1165*1165 mm)	2087mm (82.17in)
Working Temperature	-5 -45
Working Humidity	20-95%
Ground Flatness	±3mm/m <sup>2</sup> (±0.12in/m <sup>2</sup> )
Max Climbing Ability (Full-Load/Empty-load)	3°, 3°
Max Groove Width	20mm (0.79in)
Max Step Height	10mm (0.4in)

Safety Protection

Front	Laser Scanner Protection + Anti-Collision Bumper
Rear	Laser Scanner Protection + Contact Sensor
Top	Photoelectric Sensor + Ultrasound Scanner
Side	Laser Scanner Protection + Anti-Collision Bumper
Other	Emergency Stop Button + Acousto-Optic Alarm + Safety/Warning Light

\* Fork length can be customized VNR14(V)-01 Triplex mast option: (6955mm, 7955mm, 8255mm); VNR16(V)-01 Triplex mast option: (7255mm, 7955mm, 8955mm). Forklift weight varies slightly depending on the height of the mast. Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

Product Drawing



Contact us

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