AUTOMATE YOUR INTRALOGISTICS







3527.40lb Rated Load Capacity



4.47mph Max. Safety Driving Speed



226.57in Fork Lifting Height



127.95in Min. Stacking Aisle Width

VNR16(VL)-01 REACH TRUCK AGV

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The combination of navigation module (Vision-based or 3D SLAM) and 3D Laser perception module provides higher accuracy on different perspectives such as vehicle positioning, goods loading, goods unloading, and etc. The VNR series has 360-degree laser safety protection with mechanical protection. In addition, it is suitable for selective pallet rack, and other high position storage scenarios.





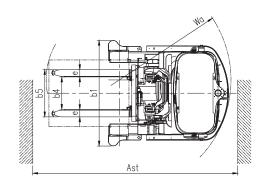


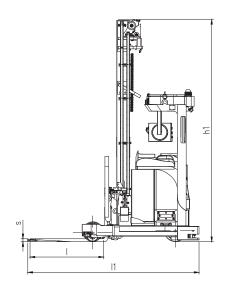




VisionNav Robotics

VNR16(VL)-01





TECHNICAL SPECIFICATIONS

Body Weight		7032.75lb (3190kg)	Fork Lifting Height	226.57in (5755mm)
Vehicle	Reach Retracts	104.37x39.69x97.48in (2651x1635x2476mm)	Rated Load Capacity	3527.40lb (1600kg)
Dimensions (l1/b1/h1)	Reach Extends	125.39x64.37x97.48in (3185x1635x2476mm)	Load Center Distance	23.62in (600mm)
Fork Dimensions (I/e/s)		40.90x3.94x1.77in (1115x100x45mm)	Min. Turning Radius	70.87in (1800mm)
Optional Fork Dimensions Series		49.80/53.74/57.68/61.61in (1265/1365/1465/1565mm)	Supporting Legs Height	13.38in (310mm)
Fork Outer Width (b5)		27.95in (710mm)	Side Shift Range	±3.15in (±80mm)
Fork Inner Width (b4)		19.13in (486mm)	Stacking Accuracy	± 0.39 in/ ± 0.5 ° (± 10 mm/ ± 0.5 °)
Mast Forward Distance		21.02in (534mm)	Operation Mode Automatic / Manual Seated	
Positioning Method		Vision-based Navigation	Battery Type	Lithium iron phosphate
Perception Method		3D Laser scanner	Voltage/Battery Capacity	48V/400Ah
Goods Pick-up Self-adaptability		±3.94in/±10° (±100mm/±10°)	Charging Mode	Manual/ Automatic Charging

MOTION PERFORMANCE

Straight Forward (Full-Load/Empty-Load)	4.47mph , 4.47mph (2.0m/s, 2.0m/s)	Backward Turning Speed (Full-Load/Empty-Load)	0.67mph, 1.34mph (0.3m/s, 0.6m/s)
Straight Backward Speed (Full-Load/Empty-Load)	1.34mph , 1.34mph (0.6m/s, 0.6m/s)	Lifting Up Speed (Full-Load/Empty-Load)	0.89mph , 1.48mph (400mm/s, 660mm/s)
Forward Turning Speed (Full-Load/Empty-Load)	0.67mph , 1.34mph (0.3m/s, 0.6m/s)	Lifting Down Speed (Full-Load/Empty-Load)	1.23mph , 1.01mph (550mm/s, 450mm/s)

ENVIRONMENTAL REQUIREMENT

Min. Stacking Aisle Width (Pallet Size L'W:1219*1016mm, Across Forks On Width) 127.95in (3250mm)		Ground Flatness	±0.12in/m² (±3mm/m²)
Min. Turning Aisle Width (Pallet Size L*W:1219*1016mm, Across Forks On Width)	98.43in (2500mm)	Max. Climbing Capability (Full-Load/Empty-Load)	10%, 10% (6°, 6°)
Working Temperature	-5°C~ 40°C	Max. Groove Width	1.18in (30mm)
Working Humidity	20%~95%	Max. Step Height	0.39in (10mm)

SAFETY PROTECTION

Front	Laser Scanner Protection + Anti-Collision Bumper	Side	Laser Scanner Protection + Anti-Collision Bumper
Rear	Laser Scanner Protection + Contact Sensor	Other	Emergency Stop Button + Acousto-Optic Alarm
Тор	Photoelectric Sensor + Ultrasound Scanner		

^{*} Side shifter is standard configuration, Optional 3D SLAM positioning; Optional triplex mast lifting height 226.57/285.63/336.81/372.24in (body weight with the gantry height is slightly different); Optional 5G communication, battery heating, battery trolley, cargo ultra high detection, UWB warning system, scan gun, traffic recorder, RFID card reader, etc.

Maximum load capacity varies with lifting height, please refer to load capacity curve.

All the above parameters are obtained from the factory testing environment of standard products, and the vehicle parameters and performance of the project may vary according to actual conditions. Due to iterative upgrades on products, some of the specifications being listed above and the appearance of the products may not be able to change in time. For details, please contact our salespersons.