





1.4T Rated Load Capacity



1.6m/s Max. Safety Driving Speed



2924mm Fork Lifting Height



2700mm Min. Stacking Aisle Width

VNL14(VL)-01 PALLET STACKER AGV

Based on 3D SLAM navigation module, the pallet stacker AGV has high navigation accuracy without the need of reflectors; The 3D perception module is capable of detecting various of carriers, high loading and unloading accuracy, and providing 360-degree protection with high level safety and efficiency.

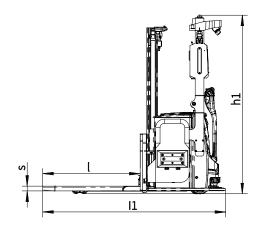


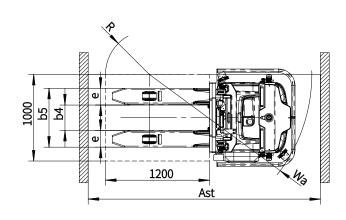






VNL14(VL)-01





TECHNICAL SPECIFICATIONS

Body Weight	1350kg (2976.24lb)	
Vehicle Dimensions(l1/b1/h1)	2100x1125x2060mm(82.68x44.29x81.10in	
Fork Dimensions(l/e/s)	1220x180x55mm (48.03x7.09x2.17in)	
Optional Fork Dimensions Series	1220/1270/1320mm (48.03x50x51.97in)	
Fork Outer Width	560/680mm (22.05/26.77in)	
Fork Inner Width	200/320mm (7.87/12.60in)	
Positioning Method	3D SLAM navigation	
Perception Method	3D Laser scanner	
Goods Pick-up Self-adaptability	±100mm/±10° (±3.94in/±10°)	

Fork Lifting Height	2924mm (115.12in)
Rated Load Capacity	1400kg (3086.47lb)
Load Center Distance	600mm (23.62in)
Min. Turning Radius	1876mm (73.86in)
Stacking Accuracy	±10mm/±0.5° (±0.39in/±1°)
Operation Mode	Automatic / Manual Pedestrian
Battery Type	Lithium iron phosphate
Voltage/Battery Capacity	24V/270Ah
Charging Mode	Manual/ Automatic Charging

MOTION PERFORMANCE

Straight Forward Speed (Full-Load/Empty-Load)	1.6m/s, 1.6m/s (3.58mph, 3.58mph)
Straight Backward Speed (Full-Load/Empty-Load)	0.6m/s, 0.6m/s (1.34mph, 1.34mph)
Forward Turning Speed (Full-Load/Empty-Load)	0.3m/s, 0.6m/s (0.67mph, 1.34mph)

Backword Turning Speed (Full-Load/Empty-Load)	0.3m/s, 0.6m/s (0.67mph, 1.34mph)
Lifting Up Speed (Full-Load/Empty-Load)	160mm/s, 300mm/s (0.36mph, 0.67mph)
Lifting Down Speed (Full-Load/Empty-Load)	350mm/s, 400mm/s (0.78mph, 0.89mph)

ENVIRONMENTAL REQUIREMENT

Min. Stacking Aisle Width (Pallet Size L*W:1200*1000mm, Across Forks on width)	2700mm (106.30in)
Min. Turning Aisle Width (Pallet Size L*W:1200*1000mm, Across Forks on width)	1800mm (70.87in)
Working Temperature	-5°C~40°C
Working Humidity	20%~95%

Ground Flatness	±5mm/m ² (±0.20in/m ²)
Max. Climbing Capability (Full-Load/Empty-Load)	10%,20% (6°,10°)
Max. Groove Width	30mm (1.18in)
Max. Step Height	10mm (0.39in)

SAFETY PROTECTION

Front	Laser Scanner Protection + Anti-Collision Bumper	Side
Rear	Laser Scanner Protection + Non-Contact Sensor	Other
Тор	Photoelectric Sensor + Ultrasound Scanner	

* With triplex mast option (body weight varies slightly with different mast selections); Other available options: 5G communication, battery heating, safety anti-collision bumper, loads over height	ht
detection, UWB safety system, barcode scanner, dash camera, RFID reader, etc.	

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

Laser Scanner Protection + Anti-Collision Bumper

Emergency Stop Button + Acousto-Optic Alarm

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.