

ABOUT US



VisionNav Robotics (www.visionnav.com) was founded in 2016 by a team of Doctorates from the Chinese University of Hong Kong and the University of Tokyo. We are committed to applying artificial intelligence (AI), environmental perception, deep learning, and servo control technologies to driverless vehicles. We are here to help companies save labor costs, improve logistics efficiency, storage capacity and digital management level.

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SLIM Series

SLIM PALLET STACKER FORKLIFT AGV



High Precision Navigation
and Positioning

High-Precision Perception
and Control

Smooth Operation in Narrow
Aisles

20
22

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SLIM Series

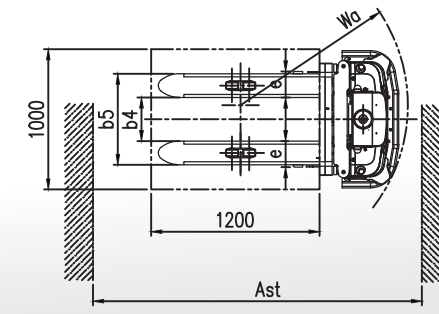
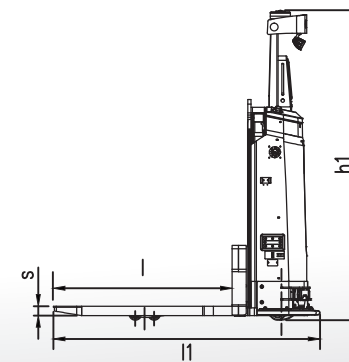
Slim design, best choice to increase storage capacity



Product Model		VNSL14 (V)-07
Fundamental Technical Parameters		
		1000kg
Dimensions	Overall Length/Width/Height (l1/b1/h1)	1715x978x1994mm
	Fork Dimensions (l/e/s)	1150x170x60mm
	Width over Forks (b5)	680mm
	Width between Forks (b4)	340mm
Navigation Type	Positioning Method	Vision-based Navigation
	Perception Method	Laser Scanning
Type of Operation		Automatic / Manual Handheld
Load Capacity and Lifting Height		
Rated Load Capacity (Q)		1400kg
Load Center (C)		600mm
Fork Lift Height (h3)		1600mm
Motion Performance		
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-Load	1.0m/s, 1.3m/s
	Straight Backward (fork facing forward) Full-Load/Empty-Load	0.6m/s, 0.6m/s
	Turning Forward(fork facing backward) Full-Load/Empty-Load	0.3m/s, 0.6m/s
	Turning Backward(fork facing forward) Full-Load/Empty-Load	0.3m/s, 0.6m/s
Maximum Fork Moving Speed	Lift Speed Full-Load/Empty-Load	115mm/s, 175mm/s
	Lower Speed Full-Load/Empty-Load	125mm/s, 160mm/s
Minimum Turning Radius		1200mm
Stacking Accuracy		±20mm/±1°
Perception Performance	Goods Drop-off Self-adaptability	±20mm/±1°
	Goods Pick-up Self-adaptability	±100mm/±10°

SLIM PALLET STACKER FORKLIFT AGF

VisionNav Robotics



Product Model		VNSL14 (V)-07
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Laser Scanner Protection + Non-Contact Sensors	
Top	Photoelectric Sensor + Ultrasound Scanner	
Side	Laser Scanner Protection + Anti-Collision Bumper	
Other	Emergency Stop Button + Acousto-Optic Alarm + Safety Marker Lights	
Environmental Requirement		
Aisle Width With Pallet 1200x1000mm cross forks		2250mm
Turning Aisle Width With Pallet 1200x1000mm cross forks		1600mm
Working Temperature		-5°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	3°, 3°
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	Lithium-Iron Phosphate (LiFePO4)	
Voltage/Capacity	24V/180Ah	
Charging Mode	Manual Charging/ Automatic Charging	

* Fork length can be customized, Fork spread, Legs overall width, Lifting height of duplex mast (can be customized: 1600mm,2500mm,3000mm,3500mm),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.