

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.

Subscribe us

 **VisionNav Robotics**

 **VisionNav**

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P Series

COUNTERBALANCED STACKER FORKLIFT AGV



Autonomous Mapping and Positioning

High-Precision Perception and Control

Multi-Specification Carrier Handling

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P Series

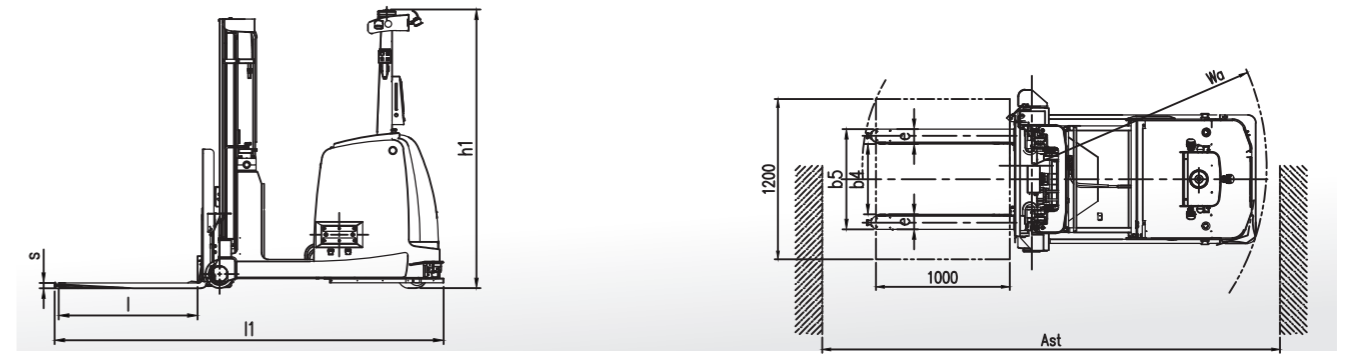
Cost-effective counterbalanced forklifts, suitable for various carriers in different scenarios.



Product Model		VNP20 (V)-07
Fundamental Technical Parameters		
Weight		3200kg
Dimensions	Overall Length/Width/Height (l1/b1/h1)	2953x1227x2085mm
	Fork Dimensions (l/e/s)	1038x100x40mm
	Optional Fork Dimensions (l) Series	888/1188/1338/1488/1638/1788mm
	Width over Forks (b5)	680mm
	Width between Forks (b4)	456mm
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)		1900kg
Load Center (C)		500mm
Fork Lift Height (h3)		3000mm
Motion Performance		
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-Load	1.3m/s, 1.5m/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	100mm/s, 150mm/s
	Lower Speed Full-Load/Empty-Load	150mm/s, 150mm/s
Minimum Turning Radius		1801mm
Stacking Accuracy		±20mm/±1°
Perception Performance	Goods Drop-off Self-adaptability	±20mm/±1°
	Goods Pick-up Self-adaptability	±100mm/±10°

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Product Model		VNP20 (V)-07
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Laser Scanner Protection + Touch Sensor	
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 1000x1200mm cross forks		3500mm
Turning Aisle Width With Pallet 1000x1200mm cross forks		2300mm
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/270Ah	
Charging Mode	Manual Charging/ Automatic Charging	

* Fork length can be customized. Mast option: Duplex(3000mm, 3500mm,4000mm,4500mm) , Triplex (4500mm) ;Forklift weight varies slightly depending on the height of the mast. Sideshifter option: shifter distance ±50mm (reduce 200kg load capacity) , ±100mm (reduce 300kg load capacity) Fork positioner option : fork spread440-750mm (reduce 200kg load capacity) ,440-1000mm (reduce 300kg load capacity) Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.