

# VNP20(V)-07

## COUNTERBALANCE STACKER AGV

Cost-effective, adaptive to various carriers, wide range of application scenarios.



**1.9T**  
Rated Load Capacity



**1.5m/s**  
Maximum Driving Speed



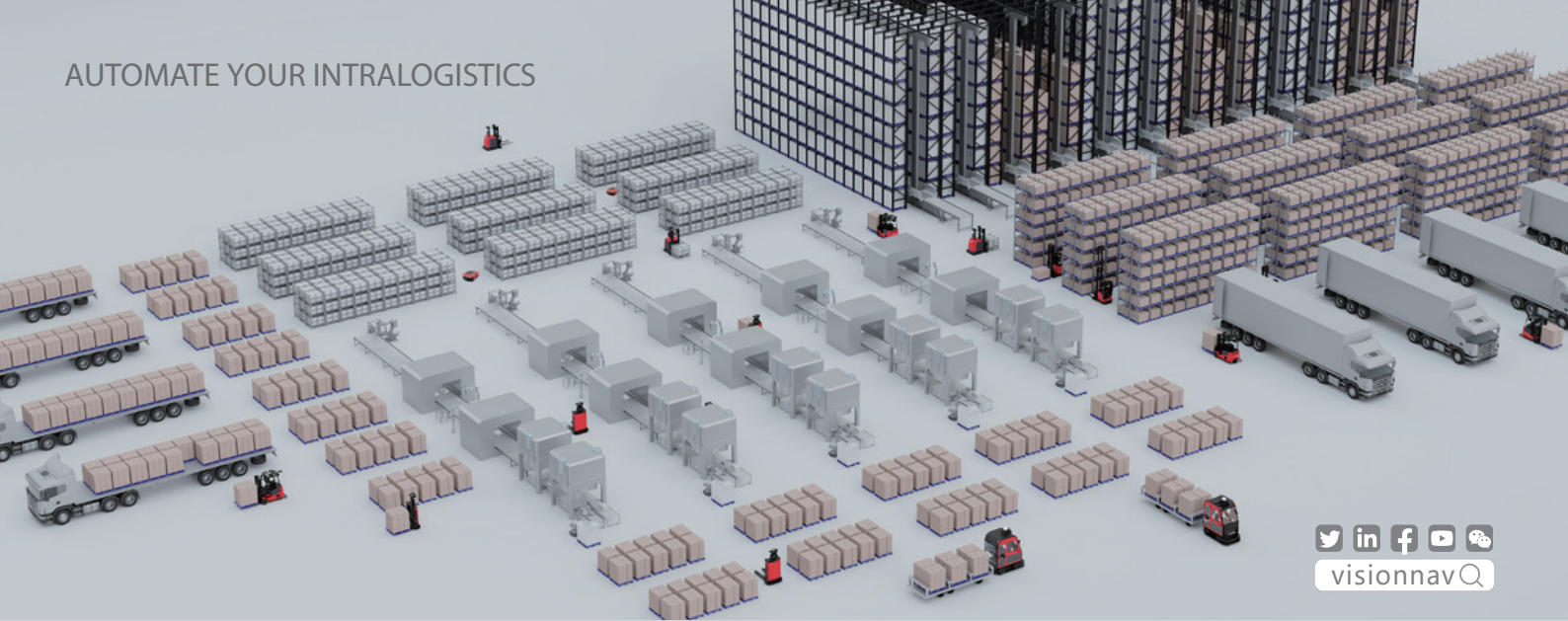
**3m**  
Lift Height



**3500 mm**  
Min. Stacking Aisle Width

AUTOMATE YOUR INTRALOGISTICS

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## Fundamental Technical Parameters

Weight	3200kg (7054.79lb)
Dimensions (l1/b1/h1)	2953x1227x2085mm (116.26x48.31x82.09in)
Fork Dimensions (l/e/s)	1038x100x40mm (40.87x3.94x1.57in)
Width over Forks (b5)	680mm (26.77in)
Width between Forks (b4)	456mm (17.95in)
Positioning Method	Vision-based Navigation
Perception Method	Laser Scanning
Goods Drop-off Self-adaptability	±20mm/±1° (±0.79in/±1°)
Goods Pick-up Self-adaptability	±100mm/±10° (±3.94in/±10°)

## Optional CE (parameters have changed)

Fork Lift Height (h3)	3000mm (118.11in)
Rated Load Capacity (Q)	1900kg (4188.78lb)
Load Center (C)	500mm (19.68in)
Minimum Turning Radius (Wa)	1801mm (70.91in)
Stacking Accuracy	±20mm/±1° (±0.79in/±1°)
Type of Operation	Automatic / Manual Handheld
Battery Type	LiFePO4
Voltage/Capacity	24V/270Ah
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)	100mm/s, 150mm/s (0.22mph, 0.34mph)
Lower Speed (Full-Load/Empty-Load)	150mm/s, 150mm/s (0.34mph, 0.34mph)

## Environmental Requirement

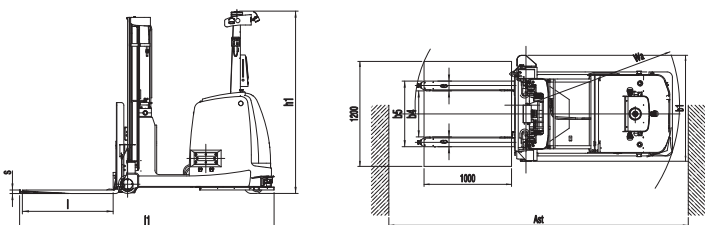
Min. Stacking Aisle Width (Pallet Size L*W:1165*1165 mm)	3640mm (143.31in)
Min. Turning Aisle Width (Pallet Size L*W:1165*1165 mm)	2314mm (91.10in)
Working Temperature	-5 -45
Working Humidity	20-95%
Ground Flatness	±5mm/m <sup>2</sup> (±0.20in/m <sup>2</sup> )
Maximum Climbing Ability (Full-Load/Empty-load)	3°, 3°
Maximum Groove Width	20mm (0.79in)
Maximum 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. Mast option: Duplex (3000mm, 3500mm, 4000mm, 4500mm); Triplex (4500mm). Forklift weight varies slightly depending on the height of the mast. Optional traverse: traverse distance ±50mm (200kg loss), traverse distance ±100mm (300kg loss). Fork positioner option: fork spread 440-750mm (200kg loss), 440-1000mm (300kg loss).  
Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

## Product Drawing



## Contact us

### Alnico Systems Pty Ltd

Unit 206 / 882 Pacific Highway  
Lisarow NSW 2250

sales@alnico.com.au www.alnico.com.au