

ABOUT US



VisionNav Robotics (www.visionnav.com) was founded in 2016 by a team of PhDs from The Chinese University of Hong Kong and The University of Tokyo. We are committed to apply artificial intelligence (AI), environmental perception, deep learning and servo control technologies to driverless industrial vehicles, helping companies realize savings in labour costs and improve logistic efficiency, storage capacity and digital management.

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PRODUCTS CATALOG

Professional Industrial
Driverless Vehicle Provider



■ SMART VISION TECHNOLOGY
EMPOWERS UNMANNED LOGISTICS

20
22 www.visionnav.com

■ Global Network



■ Chinese Network



Anytime, anyplace, we are happy to provide driverless internal logistics solution for global market.

VisionNav Robotics



VISION NAVIGATION INDUSTRIAL VEHICLES
EMPOWER DRIVERLESS LOGISTICS

VisionNav driverless forklifts undertake every type of task that would be expected of a traditional manually operated forklift – including vehicle loading and unloading, pallet put-away and retrieval in both standard and very narrow aisle racking, as well as pallet and stillage movements throughout the warehouse.



SOLUTION ARCHITECTURE

DRIVERLESS LOGISTICS SOLUTION



MAIN ADVANTAGES

ISO CE

EFFICIENCY

Improve the logistics efficiency by about 30% without changing the existing processes;

DIGITAL MANAGEMENT

Visual operation, synchronize information flow and material flow;
Cloud computing and data management;

SAFETY

Strictly complied with international safety design standards, use dual-system control and 5 level safety protection; Risk warning in real-time feedback;

SOFTWARE: SYSTEMS

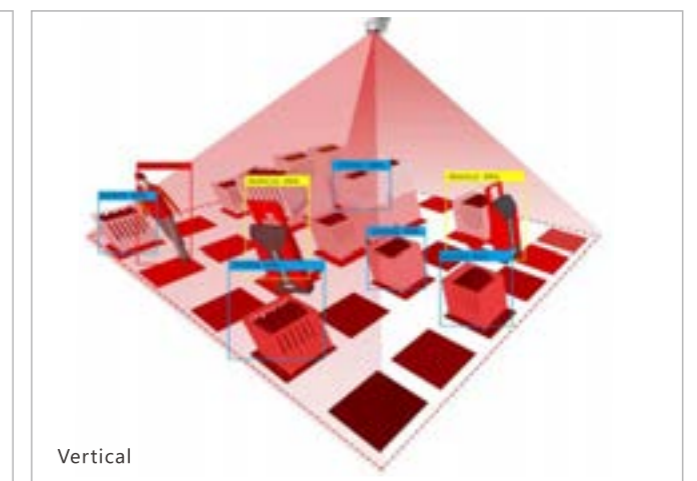
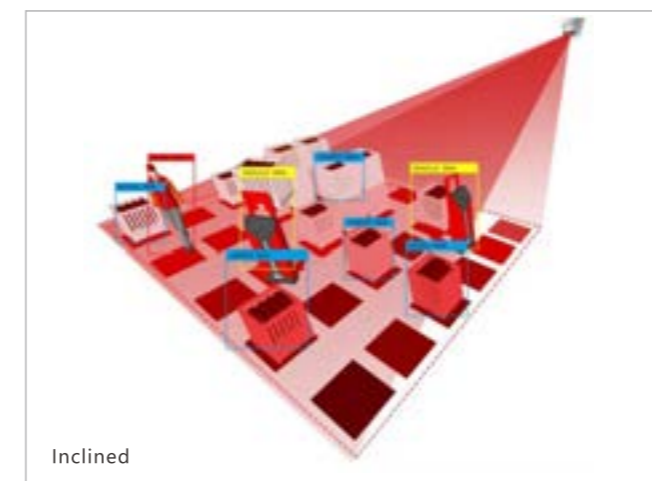
ROBOT CONTROL SYSTEM









Robot Control System is a visualized intelligent scheduling system for up to 150 AGFs communication and task management. The system can realize multi-AGF scheduling, path planning, collisions avoidance, task management and data analysis in large-scale vehicle scheduling scenarios. Scheduling from the cloud, the system functions effectively, flexibly and stably. Docking with MES/WMS/ERP system and coordinated with vision navigation modules, the system can provide customers a more integrated and cooperative solution of industrial vehicle.



BRIGHT EYE SYSTEM

Based on deep learning image identification technology, BrightEye System can detect storage location situation in real-time. With the help of big data and AI intelligence algorithm, the system can effectively identify and track the goods, pallets, forklifts, operators and other objects in the warehouse. It can share logistic information with WMS system and central control system in real time, providing storage location safety information to the companies, as well as helping unmanned operation of AGFs, patrol robots and other intelligent devices. In addition, BrightEye System is equipped with infrared detection, enabling itself to perform real-time detection task without lighting.



Series	T Series	L Series	SLIM Series	P Series	E Series	R Series	Q Series				
Style											
	Pallet Mover Forklift AGF	Pallet Stacker Forklift AGF	Slim Pallet Stacker Forklift AGF	Counterbalanced Stacker Forklift AGF	Counterbalanced Stacker & Clamp Forklift AGF	Counterbalance Truck AGF for Indoor & Outdoor	Heavy-load Reach Truck AGF	Autonomous Tractor			
Model	VNT20	VNL14	VNL16	VNSL14	VNP15	VNP15A	VNE20	VNR14	VNR16	VNQ40	VNQ60
Lifting Height	0-125mm	0-2924mm		0-1600mm	0-3000mm	0-3000mm	0-3000mm	0-7255mm		/	
Rated Load Capacity	2000KG	1400KG	1600KG	1400KG	1500KG	600KG	2000KG	1400KG	1600KG	4000KG	6000KG
Carrier Type	Nine Block Pallet	√	√	√	√		√	√			
	Four-Way Entry Open-Boarded Pallet	√	√	√	√		√	√			
	Four-Way Entry Close-Boarded Pallet				√		√	√			
	Stillage Cage/Multi-Layer Rack	√	√	√	√		√	√			
	Trailer Storage Rack									√	
	No Carrier Materials						√	√			
Height	1970mm	2000mm		1957mm	2075mm	2075mm	2040mm	3376mm		2267mm	2267mm
Weight	960KG	1250KG	1400KG	680KG	2700KG	2800KG	3200KG	2890KG	2940KG	2940KG	1200KG
Minimum Operating Aisle Width (Stacking Aisle Width, PalletSize L*W: 1200*1000mm pallet lengthwise)	2600mm	2700mm		2100mm	3000mm	3000mm	2725mm	3000mm	3100mm	/	
Recommended Scenarios	Indoor Horizontal Transportation	√	√	√	√	√	√				
	Indoor Production Line Transfer	√	√	√	√	√	√				
	Indoor Material Stacking				√	√	√	√			
	Indoor Put-Away and Picking		√	√	√	√	√	√			
	Truck Loading				√	√	√	√			
	Indoor & Outdoor Traction										√

T Series

Large tonnage, long-distance horizontal transportation, fast material transfer.

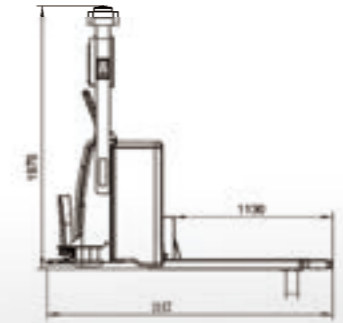
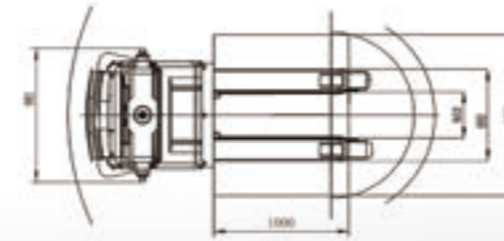


Product Model		VNT20	
Fundamental Technical Parameters			
Weight		960KG	
Dimension	Overall Length/Width/Height (L*W*H)	2177*991*1970mm	
	Fork Dimension (L*W*H)	1130*170*70mm	
	Width over Forks	560/680mm	
	Width between Forks	202/322mm	
Navigation Type	Positioning Method	Vision-based Navigation	
	Perception Method	Laser Scanning	
Type of Operation		Automatic / Manual Pedestrian	
Load Capacity and Lifting Height			
Rated Load Capacity		2000KG	
Maximum Traction Capacity		/	
Load Center		600mm	
Lifting Height		125mm	
Motion Performance			
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-load	1.5m/s, 2.0m/s	
	Straight Backward (fork facing forward) Full-Load/Empty-load	0.6m/s, 0.6m/s	
Maximum Turning Speed	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	36mm/s, 43mm/s	
	Lower Speed Full-Load/Empty-load	64mm/s, 60mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

PALLET MOVER FORKLIFT AGF

VisionNav Robotics



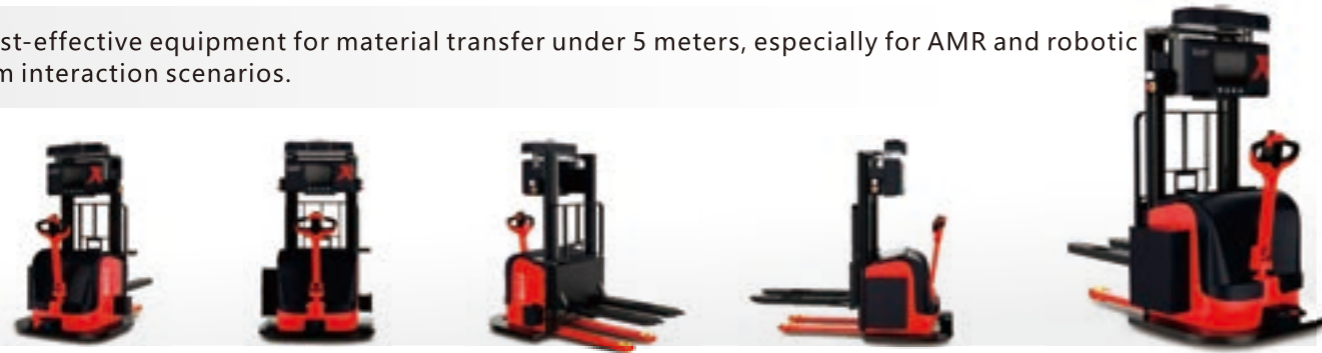
Product Model		VNT20
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Non-Contact Sensors	
Top	Photoelectric Sensor & Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+ Clearance Lamp	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2600mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2100mm
Working Temperature		-5°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	24V345AH(Lead-Acid)/24V200AH(Lithium-Iron)	
Charging Mode	Manual Charging/ Automatic Charging	

APPLICATIONS



L Series

Cost-effective equipment for material transfer under 5 meters, especially for AMR and robotic arm interaction scenarios.

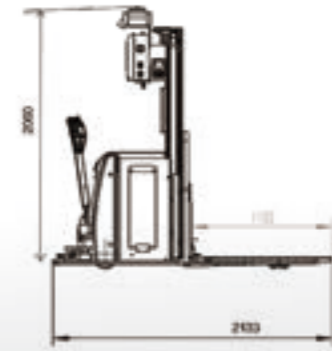
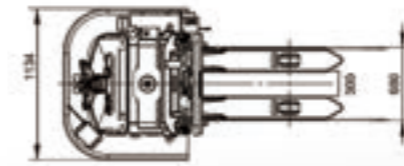


Product Model		VNL14	VNL16
Fundamental Technical Parameters			
Weight		1250KG	1400KG
Dimension	Overall Length/Width/Height (L*W*H)	2133*1134*2000mm	
	Fork Dimension (L*W*H)	1122*180*55mm	
	Width over Forks	580/680mm	
	Width between Forks	200/300mm	
Navigation Type	Positioning Method	Vision-based Navigation	
	Perception Method	Laser Scanning	
Type of Operation		Automatic / Manual Pedestrian	
Load Capacity and Lifting Height			
Rated Load Capacity		1400KG	1600KG
Maximum Traction Capacity		/	
Load Center		570mm	
Lifting Height		2924mm	
Motion Performance			
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-load	1.5m/s, 1.5m/s	
	Straight Backward (fork facing forward) Full-Load/Empty-load	0.6m/s, 0.6m/s	
Maximum Turning Speed	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	160mm/s, 300mm/s	
	Lower Speed Full-Load/Empty-load	350mm/s, 400mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

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PALLET STACKER FORKLIFT AGF

VisionNav Robotics



Product Model		VNL14	VNL16
Safety Protection			
Front	Laser Scanner Protection + Anti-Collision Bumper		
Rear	Non-Contact Sensors		
Top	Photoelectric Sensor & Ultrasound Scan		
side	Laser Scanner Protection + Anti-Collision Bumper		
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp		
Environmental Requirement			
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2700mm	
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2100mm	
Working Temperature		-5°C-45°C	
Working Humidity		20-95%	
Ground Flatness		±5mm/m ²	
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%	
Maximum Groove Width		20mm	
Maximum Step Height		10mm	
Battery			
Type	24V270AH(Lead-Acid)/24V/200AH(Lithium-Iron)		
Charging Mode	Manual Charging/ Automatic Charging		

APPLICATIONS



SLIM Series

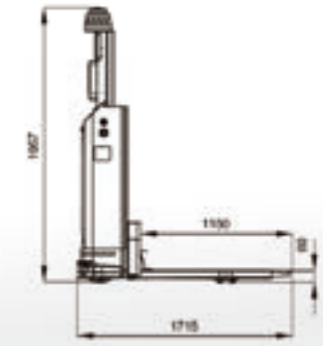
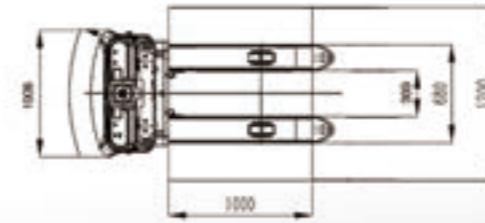
Slim design, best choice to increase storage capacity.



Product Model		VNSL14	
Fundamental Technical Parameters			
Weight		680KG	
Dimension	Overall Length/Width/Height (L*W*H)	1715*1008*1957mm	
	Fork Dimension (L*W*H)	1150*170*60mm	
	Width over Forks	650mm	
	Width between Forks	310mm	
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		1400KG	
Maximum Traction Capacity		/	
Load Center		500mm	
Lifting Height		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	
Maximum Turning Speed	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	175mm/s, 115mm/s	
	Lower Speed Full-Load/Empty-load	125mm/s, 160mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

SLIM PALLET STACKER FORKLIFT AGF

VisionNav Robotics



Product Model		VNSL14
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Non-Contact Sensors	
Top	Photoelectric Sensor & Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2100mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		1800mm
Working Temperature		-5°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	24V/180AH(Lithium-Iron)	
Charging Mode	Manual Charging/ Automatic Charging	

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APPLICATIONS



P Series

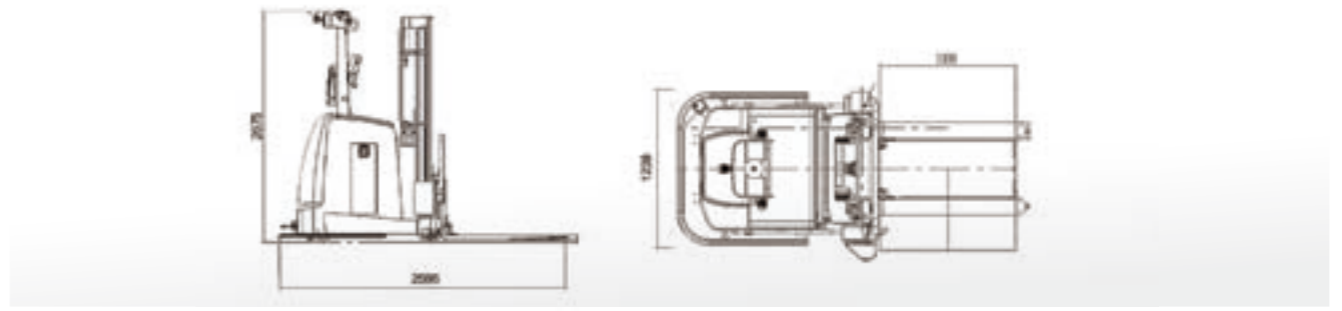
Cost-effective counterbalanced forklift, suitable for various carriers in different scenarios.



Product Model		VNP15	
Fundamental Technical Parameters			
Weight		2700KG	
Dimension	Overall Length/Width/Height (L*W*H)	2595*1238*2075mm	
	Fork Dimension (L*W*H)	1070*100*40mm	
	Width over Forks	500mm/730mm	
	Width between Forks	280mm/510mm	
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		1500KG	
Maximum Traction Capacity		/	
Load Center		500mm	
Lifting Height		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	
Maximum Turning Speed	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	50mm/s, 100mm/s	
	Lower Speed Full-Load/Empty-load	160mm/s, 180mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

COUNTERBALANCED STACKER FORKLIFT AGF

VisionNav Robotics



Product Model		VNP15
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Contact Sensors	
Top	Photoelectric Sensor & Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		3000mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2100mm
Working Temperature		-5°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	24V/270AH(Lithium-Iron)	
Charging Mode	Manual Charging/ Automatic Charging	

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

APPLICATIONS



P Series

Embedded by different attachments, specially for non-carrier material handling.



Product Model		VNP15A	
Fundamental Technical Parameters			
Weight		2800KG	
Dimension	Overall Length/Width/Height (L*W*H)	2595*1238*2075mm	
	Fork Dimension (L*W*H)	/	
	Width over Forks	/	
	Width between Forks	/	
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		600KG	
Maximum Traction Capacity		/	
Load Center		500mm	
Lifting Height		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	
Maximum Turning Speed	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	50mm/s, 100mm/s	
	Lower Speed Full-Load/Empty-load	160mm/s, 180mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

COUNTERBALANCED STACKER FORKLIFT AGF

VisionNav Robotics

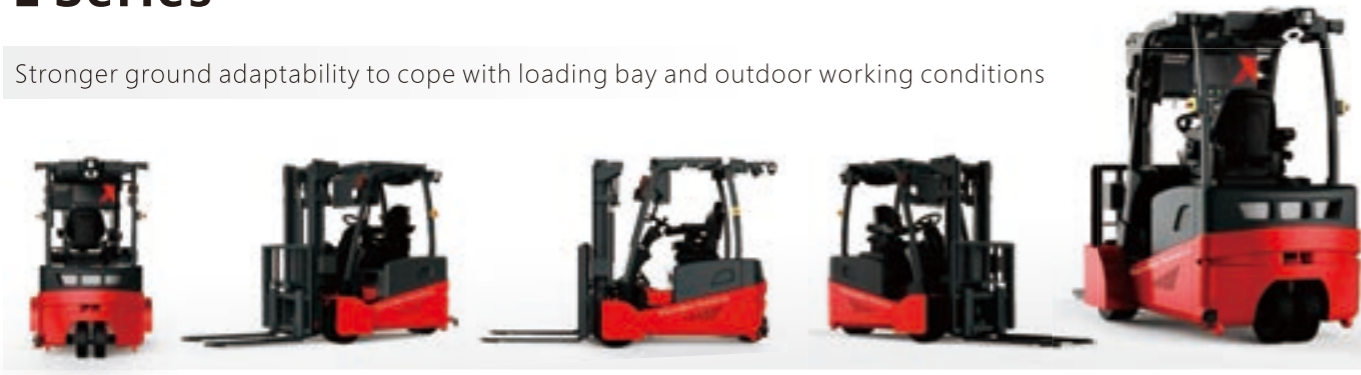


Product Model		VNP15A
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	/	
Top	Photoelectric Sensor & Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		3000mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2100mm
Working Temperature		-5°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	24V/270AH(Lithium-Iron)	
Charging Mode	Manual Charging/ Automatic Charging	

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

E Series

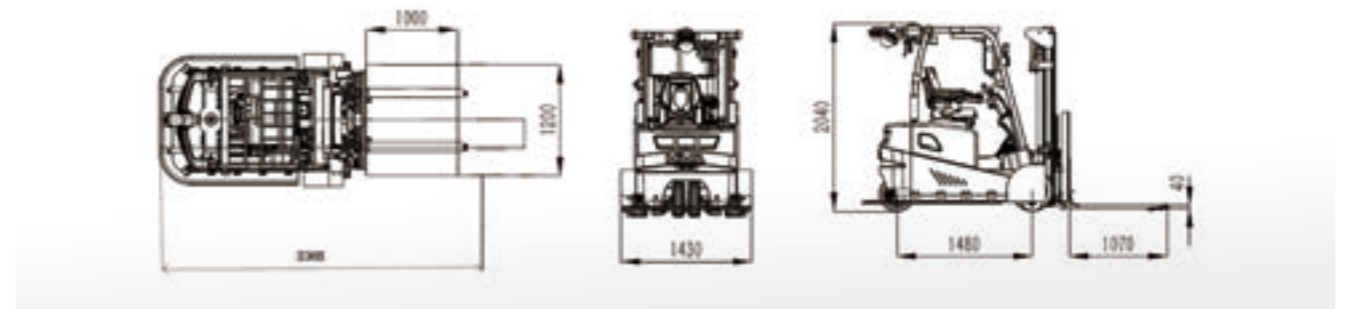
Stronger ground adaptability to cope with loading bay and outdoor working conditions



Product Model		VNE20	
Fundamental Technical Parameters			
Weight		3200KG	
Dimension	Overall Length/Width/Height (L*W*H)	3365*1430*2040mm	
	Fork Dimension (L*W*H)	1070*100*40mm	
	Width over Forks	680mm	
	Width between Forks	460mm	
Navigation Type	Positioning Method	Vision-based + Laser Navigation	
	Perception Method	Laser Scanning	
Type of Operation		Automatic / Manual Seated	
Load Capacity and Lifting Height			
Rated Load Capacity		2000KG	
Maximum Traction Capacity		/	
Load Center		500mm	
Lifting Height		3000mm	
Motion Performance			
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-load	1.5m/s, 3.0m/s	
	Straight Backward (fork facing forward) Full-Load/Empty-load	0.6m/s, 0.6m/s	
Maximum Turning Speed	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	260mm/s, 340mm/s	
	Lower Speed Full-Load/Empty-load	380mm/s, 360mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

Counterbalance Truck AGF for Indoor & Outdoor

VisionNav Robotics



Product Model		VNE20
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Contact Sensors	
Top	Laser	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		3725mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise		2450mm
Working Temperature		-10°C-45°C
Working Humidity		20-95%
Ground Flatness		±5mm/m ²
Maximum Climbing Ability	Full-Load/Empty-load	13%, 15%
Maximum Groove Width		20mm
Maximum Step Height		10mm
Battery		
Type	48V490AH(Lead-Acid)/48V450AH(Lithium-Iron)	
Charging Mode	Manual Charging/ Automatic Charging	

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

APPLICATIONS



R Series

Reach truck design, suitable for various carriers, applied to 9m-high storage.



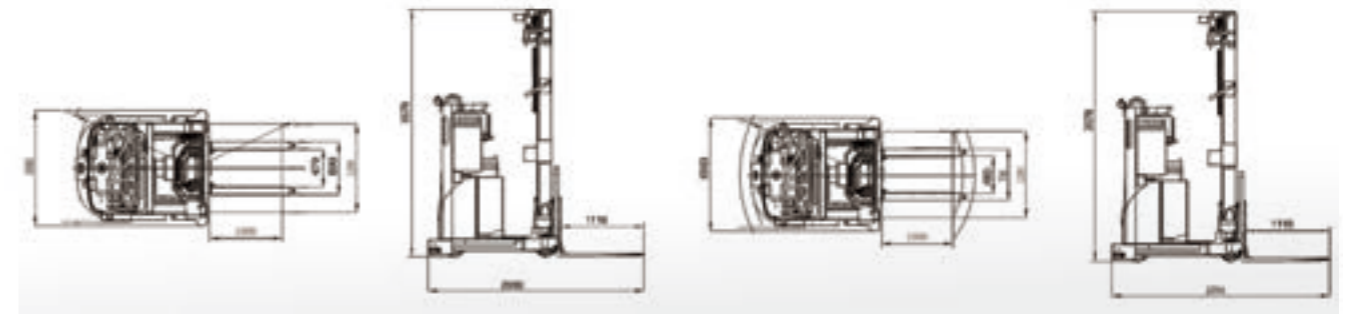
Product Model		VNR14	VNR16
Fundamental Technical Parameters			
Weight		2890KG	2940KG
Dimension	Overall Length/Width/Height (L*W*H)	2590*1583*3376mm	2594*1583*3376mm
	Fork Dimension (L*W*H)	1116*100*45mm	
	Width over Forks	520/690mm	520/710mm
	Width between Forks	300/470mm	300/490mm
Navigation Type	Positioning Method	Vision-based Navigation	
	Perception Method	Laser Scanning	
Type of Operation		Automatic / Manual Seated	

Load Capacity and Lifting Height			
Rated Load Capacity		1400KG	1600KG
Maximum Traction Capacity		/	
Load Center		570mm	
Lifting Height		7255mm	

Motion Performance			
Maximum Driving Speed	Straight Forward (fork facing backward) Full-Load/Empty-load	1.5m/s, 1.5m/s	
	Straight Backward (fork facing forward) Full-Load/Empty-load	0.6m/s, 0.6m/s	
Maximum Turning Speed	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	420mm/s, 660mm/s	400mm/s, 660mm/s
	Lower Speed Full-Load/Empty-load	550mm/s, 450mm/s	
Stacking Accuracy		±20mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	±20mm
		Space Inspection Capacity	Inspect Space Availability for Goods
	Good-picking Self-adaptability	Horizontal Adjustment	±100mm
		Angle Adjustment	±10°

Heavy-load Reach Truck AGF

VisionNav Robotics



Product Model	VNR14	VNR16
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	Contact Sensors	
Top	Photoelectric Sensor & Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm+Clearance Lamp	

Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise	3000mm	3100mm
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise	2350mm	2400mm
Working Temperature	-5°C-45°C	
Working Humidity	20-95%	
Ground Flatness	±5mm/m ²	
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width	20mm	
Maximum Step Height	10mm	

Battery	
Type	48V560AH(Lead-Acid)/48V400AH(Lithium-Iron)
Charging Mode	Manual Charging/ Automatic Charging

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

APPLICATIONS



Q Series

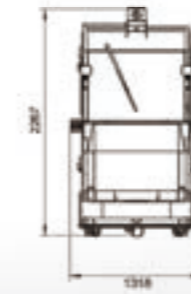
Long-distance and large-tonnage traction, specially designed for indoor & outdoor transportation.



Product Model		VNQ40	VNQ60
Fundamental Technical Parameters			
Weight		960KG	1200KG
Dimension	Overall Length/Width/Height (L*W*H)	2036*1318*2267mm	2036*1318*2267mm
	Fork Dimension (L*W*H)	/	
	Width over Forks	/	
	Width between Forks	/	
Navigation Type	Positioning Method	Magnetic Spot	
	Perception Method	/	
Type of Operation		Automatic / Manual Seated	
Load Capacity and Lifting Height			
Rated Load Capacity		/	
Maximum Traction Capacity		4000KG	6000KG
Load Center		/	
Lifting Height		/	
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	/	
Maximum Turning Speed	Turning Forward(fork facing backward) Full-Load/Empty-load	0.3m/s, 0.6m/s	
	Turning Backward(fork facing forward) Full-Load/Empty-load	/	
Maximum Fork Moving Speed	Lift Speed Full-Load/Empty-load	/	
	Lower Speed Full-Load/Empty-load	/	
Stacking Accuracy		±50mm	
Perception Performance	Space Self-adaptability	Goods Centered-placing Accuracy	/
		Space Inspection Capacity	/
	Good-picking Self-adaptability	Horizontal Adjustment	/
		Angle Adjustment	/

AUTONOMOUS TRACTOR

VisionNav Robotics



Product Model	VNQ40	VNQ60
Safety Protection		
Front	Laser Scanner Protection + Anti-Collision Bumper	
Rear	/	
Top	Ultrasound Scan	
side	Laser Scanner Protection + Anti-Collision Bumper	
other	Emergency Stop Switch + Acousto-Optic Alarm	
Environmental Requirement		
Minimum Stacking Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise	/	
Minimum Turning Aisle Width, Pallet Size L*W: 1200*1000mm pallet lengthwise	/	
Working Temperature	-5°C-45°C	
Working Humidity	20-95%	
Ground Flatness	±5mm/m ²	
Maximum Climbing Ability	Full-Load/Empty-load	5%, 5%
Maximum Groove Width	30mm	
Maximum Step Height	20mm	
Battery		
Type	48V/280AH(Lead-Acid)	
Charging Mode	Manual Charging	

*Notice: Due to improvements, the specifications and parameters may be changed without notice. Please consult the sales staff for details.

APPLICATIONS

