

## Max-NPS Pallet Stacker

### Automated Industrial Lift Truck

Industrial manufacturers and distribution centers looking to boost performance and reduce costs are searching for LEAN rack or pallet handling solutions that are safe, proven, and reliable to: improve worker and product safety, reallocate precious labor resources to more value-add activities, and improve delivery throughput and consistency.

The Max-NPS Pallet Stacker is an automated counterbalanced lift truck that can automatically pick and place pallets or racks from the floor level, trailer decks, conveyors, or racks up to 5 feet high. Standard payload capacity is 1,770 lbs. (800 kg), with a high capacity version for up to 2,650 lbs. (1,200 kg).

With its smart pallet finding capability, the Max-NPS Pallet Stacker can pick pallets that have been displaced from their expected location. The vehicle sensors will identify the pallet, its location and orientation, and then dynamically re-plan a travel path for a successful pick. It can even recognize and pick a desired pallet from a stack of pallets.

The vehicle design is compliant to ANSI safety standards with non-contact collision avoidance for both forward and reverse travel. Under the supervision of the SurePath Fleet Controller, the optimum vehicle will be allocated to a transport task and its path will be dynamically planned to provide the fastest delivery. The vehicle will travel along a network of allowed paths throughout the facility. Operators can feel safe that the operation is predictable and repeatable. They can safely coexist with the industrial vehicles and never be surprised by the vehicle behavior. The modular design helps drive down costs and enables AutoGuide to offer the industry's best lead-times.

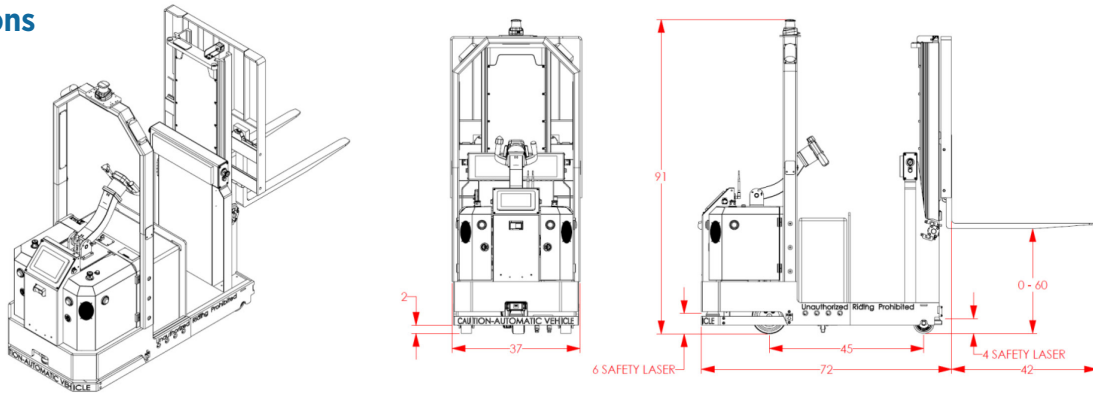


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#### Featured Highlights

- **Rugged** Robust industrial vehicle with up to 2,650 lb. payload capacity
- **Smart** Autonomous pallet location
- **Flexible** Infrastructure-free Natural Features Navigation with high-resolution LiDAR and SLAM technology
- **Safe** Compliant with ANSI B56.5-2012
- **Productive** Travels up to 4 mph in autonomous mode with full load in forward or reverse with automatic opportunity charging for maximum availability
- **Efficient** Wi-Fi communications to SurePath Fleet Controller and on-board touchscreen operator interface
- **Modular** Based on the Max-N15 Modular Mobile Robot Platform
- **CE Certified** CE marking is a certification mark indicating conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA).

## Specifications



<b>Towing Capacity</b>	1,770 lbs. (800 kg) standard, 2,650 lbs. (1,200 kg) high capacity
<b>Travel Speed</b>	Variable up to 4 mph (1.8 m/sec) at full load
<b>LIDAR</b>	Ultra-high density, Up to 250,000 measurements/sec, resolution: 1 mm, 0.014 degrees
<b>Path Indicator</b>	Dual LEDs assist operator in the returning vehicle to auto mode at any point on the path
<b>Pallet Sensing</b>	Laser scanner for pallet recognition and locating, capacitive presence sensor
<b>Wireless Communications</b>	Configurable 2.4 GHz or 5 GHz Wi-Fi
<b>Hybrid Operation</b>	Operator platform with pressure sensitive mat and steering wheel, mode switch (Off/Auto/Manual)
<b>System Status Indicators</b>	Dual light poles (green, yellow, red), flashing LEDs, and 80 dB horn
<b>Start/Reset Buttons</b>	Green w/status light
<b>Onboard Operator Interface</b>	10 in. touchscreen GUI, main status screen (operating mode, location, destination, navigation status, communication state, battery level), manual destination select screen, alarm screen, maintenance and diagnostics screens
<b>Grade</b>	Up to 4%, full load/full speed
<b>Drive</b>	AC servo with maintenance-free sealed gear train
<b>Steering</b>	AC servo with maintenance-free sealed gear train
<b>Drive Wheel</b>	10 in. diameter, polyurethane
<b>Chassis Wheels</b>	6" diameter, polyurethane
<b>Brakes</b>	Regenerative braking with fail-safe emergency disc brake
<b>Turning Radius</b>	69 in. outside radius; 8 in. load distance (aisle width = outside radius + load distance + load length + clearance)
<b>Gross Weight w/Battery</b>	4,210 lbs.
<b>Battery</b>	24 VDC, 600 amp-hr. capacity
<b>Battery Connector</b>	SB 350A-600V gray
<b>Battery Compartment</b>	31 in. L x 14.75 in. W x 35 in. H
<b>Battery Charging</b>	24 VDC, up to 200 amp
<b>Safety Standards</b>	ANSI/ITSDF B56.5-2012 compliance, full load/full speed
<b>Collision Avoidance</b>	Guarded non-contact laser scanners front and rear (category 3 compliant), 270-degree scan coverage each w/smart zones based on current vehicle speed and direction
<b>E-Stops</b>	Category 3 locking mushroom buttons
<b>Environment</b>	Operating temperature 32-104° F (0-33° C), relative humidity <85% (non-condensing)
<b>Floor Conditions</b>	Free from oils, moisture, or debris; gaps or steps < 0.25 in. (6 mm)

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