

AutoGuide MAX-N High Bay

Automation for high bay pallet putaway and replenishment operations

High bay operations can be tricky and dangerous. Consequently, the cost of training high bay operators is well above average. AutoGuide's MAX-N High Bay can help decrease risk—for both employees and product—and increase speed by automating putaway and retrieval operations in warehouses that utilize high bay racks to maximize storage.

The MAX-N High Bay is designed to work in aisles as narrow as 150 inches and lift pallets to a maximum height of 36 feet. With smart pallet and rack finding capabilities, the MAX-N High Bay accurately lifts all kinds of pallets even if they're not as expected. It can even recognize and pick a desired pallet from a stack of pallets.

Control software finds the fastest routes

SurePath fleet control software monitors and directs mobile robot traffic, defining the most efficient route for each job. If an obstacle impedes the journey, a new travel path is dynamically defined. For employee safety, the MAX-N High Bay will always travel along a network of approved, predictable paths in a facility.

Modular vehicle, maximum uptime

The MAX-N High Bay is one of multiple material transport adapters designed to fit the MAX-N Base AMR. AutoGuide's exclusive transforming base vehicle helps warehouse managers automate more tasks with a single AMR. Convert a high bay machine to a pallet stacker or tugger as facility needs change with the season.

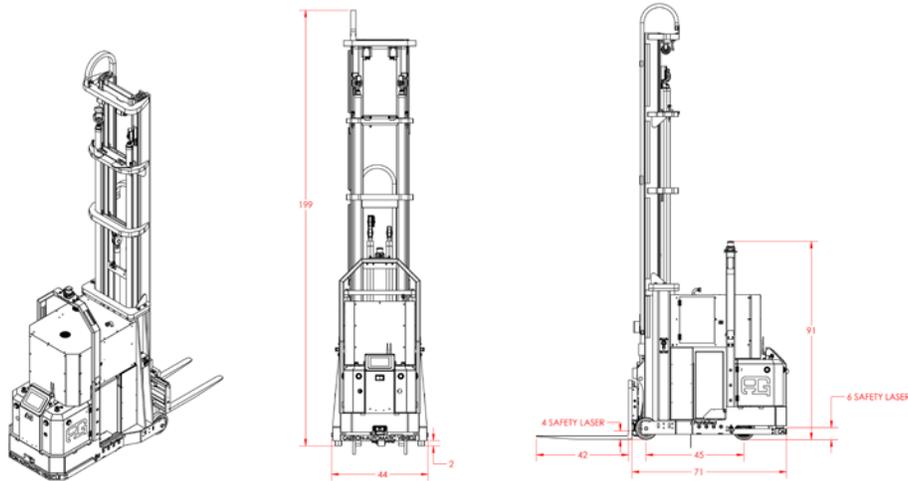
Featured Highlights

- **Rugged** Industrial vehicle with 2,400 lbs. payload capacity
- **High-tech** LiDAR scanners map facility floor for no-tape-required navigation
- **Fast** Travel speeds up to 4 mph with full load, in forward or reverse
- **Smart** Pallet and rack detection sensors for precision picking
- **Flexible** On-board touchscreen for quick switch to manual mode
- **Safe** Collision avoidance technology protects employees in a shared work zone

The MAX-N High Bay is an autonomous counterbalanced forklift that can pick pallets from the floor, racks, trailer deck, or conveyor for putaway on racks up to 36 feet high.



Specifications



Lift Capacity	2,400 lbs. (1100 kg)
Travel Speed	Variable up to 4 mph (1.8 m/sec) at full load
Max Lift Height, Speed	36 feet, 0.5 ft/sec at full load
LiDAR	Ultra-high density, up to 250,000 measurements/sec, resolution: 1 mm, 0.014 degrees
Path Indicator	Dual LEDs assist operator in returning vehicle to auto mode at any point on the path
Pallet Sensing	Laser scanner for pallet recognition and locating, ultrasonic load presence sensor
Collision Avoidance	Guarded non-contact laser scanners front and rear (category 3 compliant), 270-degree scan coverage each with smart zones based on current vehicle speed and direction. Vision technology to avoid overhung interferences.
Safety Standards	ANSI/ITSDF B56.5-2012 compliance, full load/full speed
Wireless Communications	Configurable 2.4 GHz or 5 GHz Wi-Fi
Hybrid Operation	Remote control operation, mode switch (Off/Auto/Maintenance)
Onboard Operator Interface	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.
System Status Indicators	Dual light poles (green, yellow, red), flashing LEDs, and 80 dB horn
Start/Reset Buttons	Green with status light
E-Stops	Category 3 locking mushroom buttons
Drive	AC servo with maintenance-free sealed gear train
Steering	AC servo, maintenance free
Turning Radius	69 in. outside radius; 8 in. load distance (aisle width = outside radius + load distance + load length + clearance)
Drive Wheel & Chassis Wheels	10 in. diameter, polyurethane
Brakes	Regenerative braking with fail-safe emergency disc brake
Battery	24 VDC, 840 amp-hr. capacity standard
Battery Connector	SB 350A-600V gray
Battery Compartment	31 in. L x 14.75 in. W x 32.5 in. H
Battery Charging	24 VDC, up to 200 amp
Environment	Operating temperature 32-104° F (0-40° C), relative humidity <85% (non-condensing)
Floor Conditions	Free from oils, moisture, or debris; gaps or steps < 0.25 in. (6 mm)
Grade	Level ground (+/- 0.5% grade)
Gross Weight with Battery	8,690 lbs.

For more information, please contact Sales@AGMobileRobots.com