LAUBNER®
Auto-ID Solutions

Freight500/1500 AMRs

Increase efficiency and productivity with autonomous mobile robot (AMR) solutions designed for flexibility and safety from Zebra and Fetch

Freight500/1500

Large and Palletized Payload Transport

Key Benefits

- Improves pallet pick and putaway by dramatically reducing manned travel

- Reduces forklift dependency, traffic and incidents

- Safe, smooth movement with zero-blind-spot sensor coverage

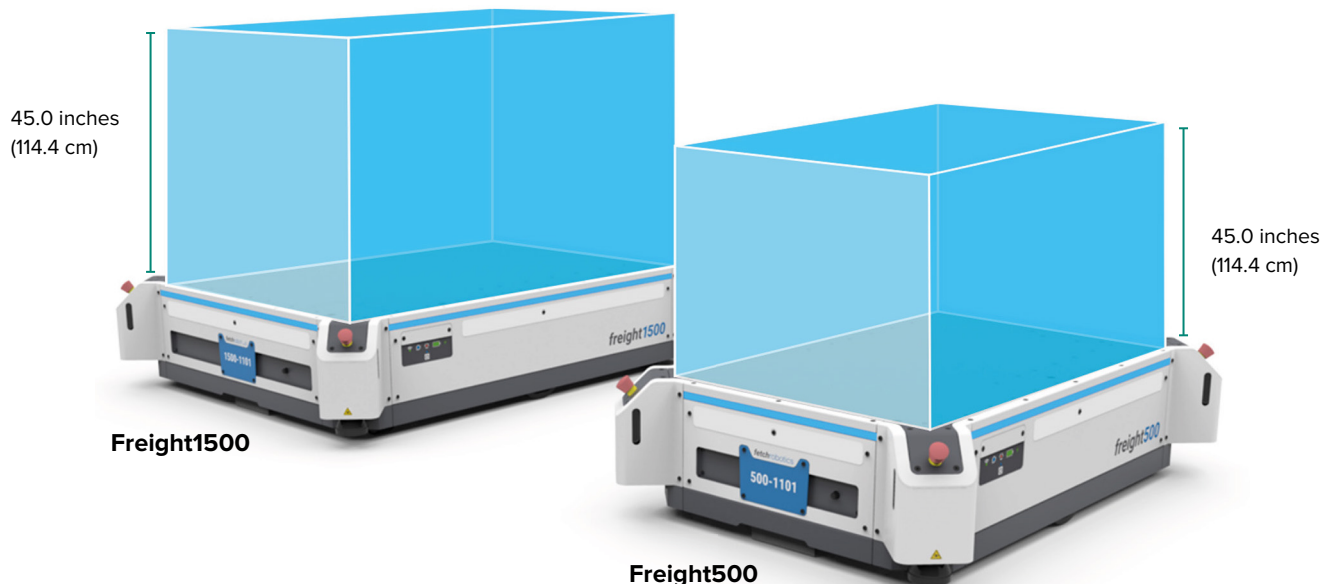- High duty cycles enabled by fast charge capability

Industry-Leading Payload Capacities

The Freight500 and Freight1500 AMR bases greatly expand the possible AMR applications in industrial facilities. Freight500 handles cases and smaller pallets, while the Freight1500 handles up to U.S. standard 40 x 48 inch pallets.
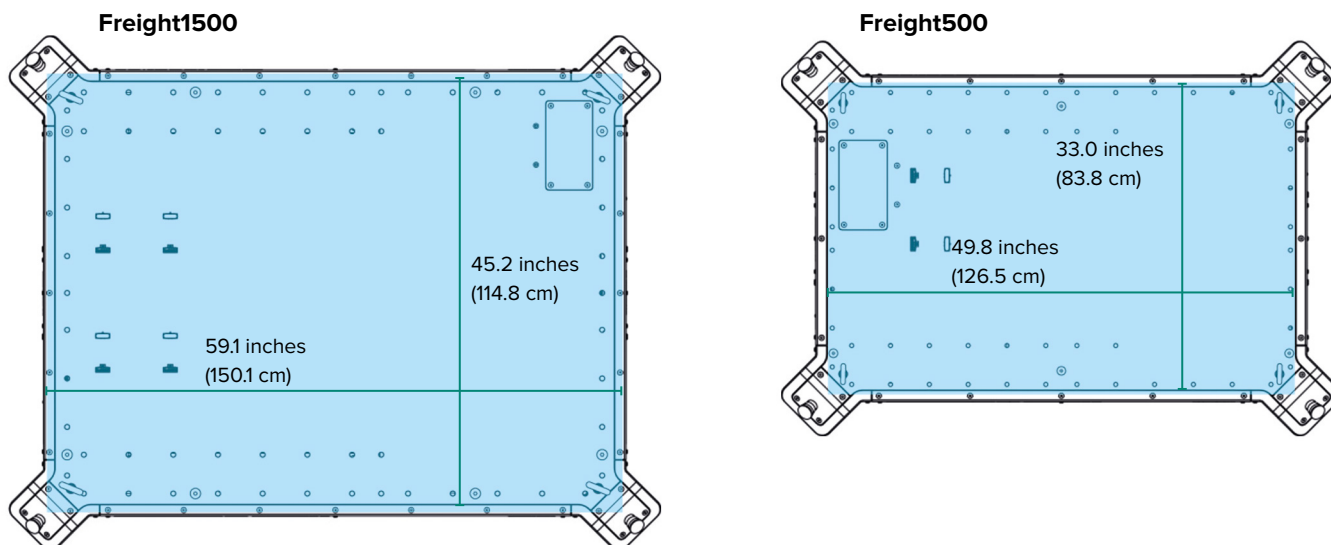
Industry-Leading Safety Features

Freight500 and Freight1500 feature Fetch Robotics' industry-leading dynamic obstacle avoidance technology as well as a certified hardware-based safety system that conforms to both CE and RIA R15.08 requirements, allowing these large AMRs to operate safely around associates and vehicles.

Freight500/1500 Max Payload Height

45.0 inches
(114.4 cm)

Freight1500
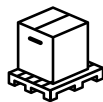
45.0 inches
(114.4 cm)

Freight500

Freight500/1500 Max Payload Dimensions

Freight1500

45.2 inches
(114.8 cm)

59.1 inches
(150.1 cm)

Freight500

33.0 inches
(83.8 cm)

49.8 inches
(126.5 cm)

Specifications	Freight500	Freight1500
Weight	663 lb (301 kg)	1,037 lb (471 kg)
Height	14.0 in (35.6 cm)	14.0 in (35.6 cm)
Base Footprint	40.4 in (102.5 cm) W, 57.2 in (145.2 cm) L	52.6 in (133.5 cm) W, 66.5 in (168.8 cm) L
Maximum Payload Weight	1,100 lb (500 kg)	3,300 lb (1,500 kg)
Maximum Speed	3.4 mph (1.5 m/s)	3.4 mph (1.5 m/s)
Turning Radius	Turn in place	Turn in place
Battery	Lithium iron magnesium phosphate	Lithium iron magnesium phosphate
Nominal Continuous Runtime	~9 hrs	~9 hrs
Charging	Autonomous docking	Autonomous docking
Charge Time	1 hr to 90%	1 hr to 90%
2D Laser Sensor	2x SICK, 98 ft (30 m), 275 degrees	2x SICK, 98 ft (30 m), 275 degrees
3D Camera	360 degree coverage (x8 cameras)	360 degree coverage (x8 cameras)
Audio	100 dB	100 dB
Top Plate Mounting Points	38	67
Environment	Indoor	Indoor

Key Workflows

Case Picking

Pallet Movements
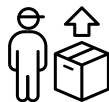
Putaway
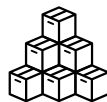
Crossdocking / Consolidation

Packing and Pallet Recycling

RollerTop Guide
Automate handoffs to active powered conveyors

HMIShelf
Transport packages, totes and bins up to 172 lbs. (78 kg)

CartConnect100
Automatically pick up and drop off carts up to 125 lbs. (57 kg)

TagSurveyor
Pinpoint your inventory multiple times per day

FlexShelf
Optimize fulfillment operations with intelligent, flexible automation

CartConnect500
Transport cases and smaller pallets up to 600 lbs. (272 kg)

PalletTransport1500
Move pallets up to 3,300 lbs. (1,500 kg) throughout the facility

Freight100 OEM Base
Build your own customized automated solution on a proven platform

RollerTop
Integrate with current conveyor infrastructure

WARNING: This product uses components which emit invisible laser radiation. Incorrect use or observing the safety laser scanner through optical instruments (such as magnifying glasses, lenses, telescopes) may be hazardous for the eyes.

CE Fetch Robotics AMRs carry a CE mark and meet regulatory requirements for product safety.

ANSI/RIA R15.08 Fetch Robotics AMRs conform with R15.08 safety standards published by the RIA (Robotics Industry Association)

For more information about Zebra and Fetch's autonomous mobile robot solutions, please visit **fetchrobotics.com**

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