



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



Case Picking



Pallet Movements



Putaway



Crossdocking / Consolidation



Packing & Pallet Recycling



Viioni

Freight500 and Freight1 500 are part of the Viioni Cloud Robotics Platform, a flexible automation solution that maximizes productivity with the widest range of payload capacities for a diverse set of warehouse and manufacturing workflows. Leading 3PLs, manufacturers, and retailers rely on the Viioni Cloud Robotics Platform to enable on-demand automation, instantly deploying, modifying, and scaling unmanned travel as needed.

Industry Leading Payload Capacities

The Freight500 and Freight1500 autonomous mobile robot (AMR) bases greatly expand the possible AMR applications in industrial facilities. Freight500 handles cases and smaller pallets while the Freight1500 handles up to US standard 40inx48in 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, allowing these large AMRs to operate safely around associates and vehicles.

Specifications	freight500	freight1500
Weight	267kg (589lbs)	469kg (1034lbs)
Height	35.6cm (14in)	35.6cm (14in)
Base Footprint	101.4cm (40in) wide, 144.1cm (56.7in) long	132.4cm (52in) wide, 167.7cm (66in) long
Maximum Payload Weight	500kg (1100lbs)	1500kg (3300lbs)
Maximum Speed	1.5m/s (3.4mph)	1.5m/s (3.4mph)
Turning Radius	Turn in place	Turn in place
Battery	Lithium Iron Magnesium Phosphate	Lithium Iron Magnesium Phosphate
Nominal Continuous Runtime	~9hrs	~9hrs
Charging	Autonomous Docking	Autonomous Docking
Charge Time	1hr to 90%	1hr to 90%
2D Laser Sensor	40m (131ft), 360 degree coverage	40m (131ft), 360 degree coverage
3D Camera	360 degree coverage (x8 cameras)	360 degree coverage (x8 cameras)
Audio	100dB	100dB
Top plate mounting points	56	58
Environment	Indoor	Indoor

