ZEBRA | fetch robotics

PalletTransport1500 AMR

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

PalletTransport1500

Automate Pallet Movements Throughout the Facility

Key Benefits

- Safely transport full pallets up to 48 x 48 inches (122 x 122 cm) with 2,500 lbs (1,134 kg) capacity in dynamic warehouse environments

- Eliminate manual travel with a pallet jack or forklift and increase safety by automating putaway, replenishment, crossdocking, returns and more

- Case pick-to-robot with AMR pickup, delivery and drop-off using Pallet Transfer Station

- Customize distribution and manufacturing workflows from anywhere with FetchCore cloud software

Specifications

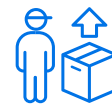|			
Weight	1,759 lb (798 kg)	**Charging**	Autonomous docking
Height with Lift Retracted	26.5 in (67.2 cm)	**Charge Time**	1 hr to 90%, plus 3 hrs for remaining 10%
Height with Lift Extended	32.2 in (81.8 cm)	**2D Laser Sensors**	2x SICK, 98 ft (30 m), 275 degrees
Width	52.6 in (133.5 cm)	**3D Depth Cameras**	8x cameras, 360 degree coverage
Length	66.5 in (168.8 cm)	**Robot Visibility**	Illuminated LED band
Max Pallet Dimensions	48 in x 48 in (121.9 cm x 121.9 cm)	**Wireless**	Integrated 802.11ac & 802.15.1 (Bluetooth® 4.0)
Max Payload Weight	2,500 lb (1,136 kg)	**Audio**	100 dB maximum
Max Speed	3.35 mph (1.5 m/s)	**Environment**	Indoor, ADA compliant
Turning Radius	Turn in place	**Min Aisle Width at Max Speed (1.5 m/s)**	113.8 in (289 cm)
Battery	4x Lithium iron magnesium phosphate	**Min Aisle Width at Min Speed (0.3 m/s)**	93.3 in (237 cm)
Nominal Continuous Runtime	~9 hrs	**Min Aisle Width for a 2-Robot Lane**	227.6 in (578 cm)

Key Workflows

Distribution and Fulfillment

Putaway
Transport pallets from receiving docks to storage

Replenishment
Transport cases and pallets from storage to forward picking

Case Picking
Build mixed pallets, transport to stretch wrap and shipping

Detrash
Remove gaylords and containers for collected corrugated, dunnage

Crossdocking
Transport pallets directly from inbound to outbound shipments

Returns
Sort returned items to pallets and transfer to dispositioning

Manufacturing

Kitting and Sequencing
Build kits from raw and send to the production line

Lineside Delivery
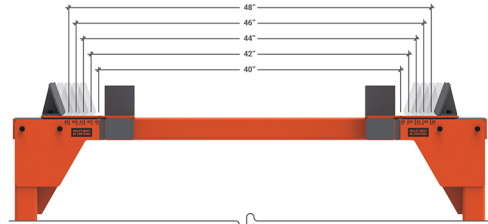Issue raw materials to assembly lines or work cells in bulk

End of Line Handling
Transport finished goods from production to storage or shipping

Product Spotlight

Pallet Transfer Station

Pallet Transfer Station Specifications

Height	30.6 in (77.8 cm)
Width	66.5 in (168.9 cm)
Depth	59 in (149.9 cm)

Width and Depth Adjustment Range

Width	40 in (101.6 cm), 42 in (106.7 cm), 44 in (111.8 cm), 46 in (116.8 cm), 48 in (121.9 cm)
Depth	40 in (101.6 cm), 42 in (106.7 cm), 44 in (111.8 cm), 46 in (116.8 cm), 48 in (121.9 cm)

Minimum Space Requirements

Total Area Width	115.7 in (293.8 cm)
Total Area Length	190.5 in (483.9 cm)

Spacing for Multiple Stations

Keep Clear Area (Left and Right)	24.9 in (62.5 cm)
Spacing in Between Stations	49.2 in (125 cm)

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

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

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

⚠ 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.

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)

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