

AMR Solution Guide

Complete autonomous mobile robot (AMR) systems designed for productivity, flexibility and safety in dynamic warehouse environments



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Deploy Automation in Hours

The Fetch Cloud Robotics Platform is the only solution that deploys safe, reliable and versatile autonomous mobile robots (AMRs) in manufacturing, warehouse and distribution environments within hours. Safely transport mixed payloads up to 3,300 lbs (1,500 kg), enhance existing manual cart-based workflows, automate asset tracking with RFID technology, and more. Easily integrate controls and data from other systems and devices to create fully optimized, integrated facilities.



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

RIA R15.08

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



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 Cloud Robotics Platform

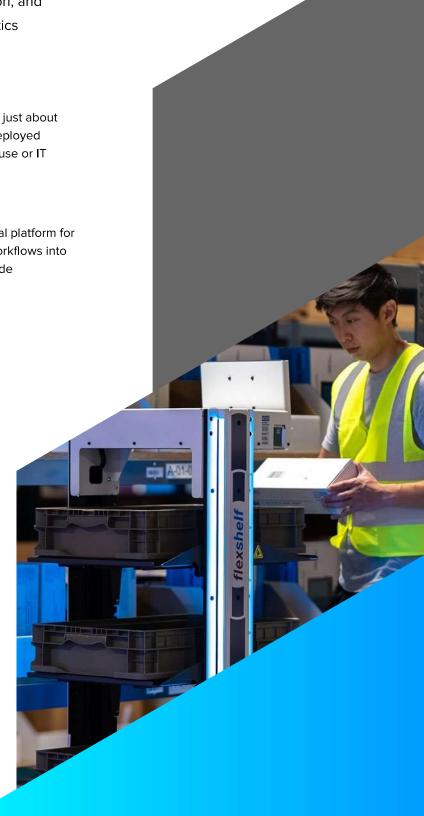
The Fetch Cloud Robotics Platform integrates a comprehensive suite of software and services with the industry's broadest range of AMRs to deliver a powerful combination of on-demand warehouse automation, next-generation data collection, and unified controls and data across your entire intralogistics ecosystem.

Fetch Autonomous Mobile Robots (AMRs)

Fetch has the broadest range of AMRs to find, track and move just about anything. With on-demand automation, Fetch robots can be deployed into almost any facility in just hours, with no additional warehouse or IT infrastructure changes.

FetchCore Enterprise Software and Services

FetchCore Enterprise Software and Services is the foundational platform for deploying and fully integrating a broad range of automated workflows into warehouse operations. FetchCare support is included to provide 24/7 global coverage.





Fetch Solutions for Distribution, Fulfillment and Manufacturing



Each / Case / Pallet Picking



Cross-Docking and Long Haul



JIT and Line Replenishment



Raw Material and WIP Movements



Receiving and Putaway



Returns Disposition



ASRS / VLM Induction and Delivery



Packaging and Material Recycling



Staging and Consolidation



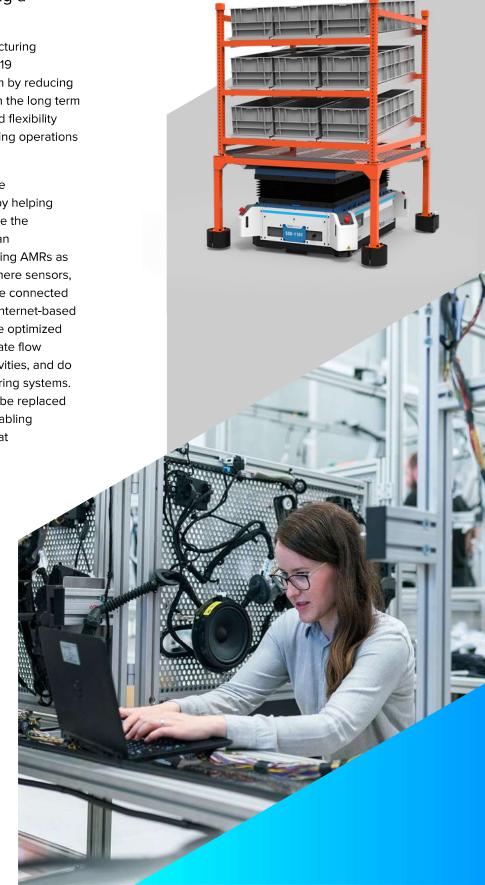
Cycle Counting and Physical Inventory

Increasing Manufacturing Productivity with AMRs

The Manufacturing Industry Is Entering a Time of Sea Change

Chronic labor shortages have plagued the manufacturing industry for years with no real end in sight. COVID-19 exacerbated this problem not only in the short term by reducing the availability of the existing workforce, but also in the long term as manufacturers need to build more resilience and flexibility into their operations by reshoring their manufacturing operations and their corresponding supply chain.

Automation, and specifically AMRs, can assist in the implementation of lean manufacturing, especially by helping remove waste from manufacturing processes. While the introduction of AMRs in isolation can assist with lean manufacturing, the true value comes from introducing AMRs as part of Smart Factory and Industry 4.0 initiatives where sensors, machines, AMRs and manufacturing systems will be connected and can interact with one another using standard Internet-based protocols. This enables production processes to be optimized and leverage fully integrated AMRs, helping to create flow between processes, remove non-value-added activities, and do this through pull-based integration with manufacturing systems. As a result, today's insular manufacturing cells will be replaced by fully automated, integrated production lines, enabling manufacturers to produce higher quality products at reduced costs.



Uncompromising Safety

The Only AMR Solution Provider That Conforms to CE and RIA R15.08

After over four years of hard work and input from hundreds of industry experts, the Robotics Industry Association (RIA) has published the new American National Standard for safety requirements for industrial mobile robots, R15.08, an important step toward common guidelines in the growing sector of mobile robotics.

To ensure a facility is using the safest equipment, you should choose AMRs that meet all aspects of the new R15.08 safety standard, meaning that all hardware (bases and modular tops) and software comply. While many AMR manufacturers today comply with the safety standard for the base robot, most have yet to conform the entire system, ensuring modular tops meet the standard as well. Both need to conform to the standard to truly address safety with the facility and allow full collaboration with humans.

At Fetch Robotics, we've worked diligently to ensure our entire commercial AMR product line not only conforms with the new R15.08 standard, but with all the requirements for CE marking as well, so that you can confidently deploy on-demand automation knowing your workforce and facility will be safe and in compliance with the latest regulations.











Specifications	FlexShelf	FlexShelf Guide	FlexShelf Guide Dual
Weight (with 2 shelves installed)	194.9 lb (88.4 kg)	200.7 lb (91.1 kg)	206.2 lb (93.5 kg)
Height	Standard: 54 in (137.1 cm) Tall: 59.3 in (150.6 cm)	Standard: 59.1 in (150 cm) Tall: 64.4 in (163.5 cm)	Standard: 59.1 in (150 cm) Tall: 64.4 in (163.5 cm)
Base Footprint	20.8 in (52.8 cm) width; 24.1 in (61.1 cm) length	20.8 in (52.8 cm) width; 24.1 in (61.1 cm) length	20.8 in (52.8 cm) width; 24.1 in (61.1 cm) length
Max Payload Weight	165 lb (75 kg)	165 lb (75 kg)	165 lb (75 kg)
Max Payload Width	16.6 in (42.2 cm)	16.6 in (42.2 cm)	16.6 in (42.2 cm)
Max Payload Length	23.8 in (60.5 cm)	23.8 in (60.5 cm)	23.8 in (60.5 cm)
Max Payload Height	Up to 34.6 in (88 cm)	Up to 34.6 in (88 cm)	Up to 34.6 in (88 cm)
Max Speed	3.9 mph (1.75 m/s)	3.9 mph (1.75 m/s)	3.9 mph (1.75 m/s)
Turning Radius	Turn in place	Turn in place	Turn in place
Continuous Runtime	~9 hrs	~9 hrs	~9 hrs
Environment	Indoors, ADA-compliant	Indoors, ADA-compliant	Indoors, ADA-compliant
Charging	Autonomous docking	Autonomous docking	Autonomous docking
Charge Time	3 hrs to 90%	3 hrs to 90%	3 hrs to 90%
2D Laser Sensor	SICK, 82 ft (25 m), 220°	SICK, 82 ft (25 m), 220°	SICK, 82 ft (25 m), 220°
3D Camera	Yes (2x)	Yes (2x)	Yes (2x)



Order Picking



Batch Picking



Case Picking



Pallet Picking



Receiving and Putaway



Coexist with Current Conveyor Infrastructure

Conveyor systems have dramatically increased industrial efficiency for many years. However, these fixed assets are hard to adapt to today's ever-changing material transport requirements. Fetch Robotics' RollerTop solution brings adaptability and increased levels of automation in these conveyor environments.

SICK TDC Smart Gateway

The SICK Telematic Data Collector (optional, sold separately) is a networked industrial I/O device that serves as a bridge between the FetchCore and other industrial equipment such as conveyors, doors and air showers. Automate hand-offs between RollerTop robots and active powered conveyors by connecting a SICK TDC to any conveyor controller.



Specifications	RollerTop	RollerTop Guide
Weight	186.2 lb (84.5 kg) Add'l weight with riser installed: Riser 1: 5.5 lb (2.5 kg) Riser 2: 6.7 lb (3.0 kg)	201.8 lb (91.5 kg) Add'l weight with riser installed: Riser 1: 5.5 lb (2.5 kg) Riser 2: 6.7 lb (3.0 kg)
Supported Conveyor Heights	18.4 in-36.6 in (46.5 cm - 92.9 cm)	18 in (45.7 cm) or 22.75 in–30 in (57.8 cm– 27.2 cm) in 0.25 in (6.35 mm) increments
Maximum Payload	Up to 176 lb (80 kg) (depends on configuration)	Up to 160 lb (73 kg) (depends on configuration)
Base Footprint	23.6 in (59.9 cm) length, 21.7 in (55.1 cm) width 23.6 in (59.9 cm) length, 21.7 in (5	
Cargo Dimensions	20.6 in–32.7 in (52.3 cm – 83.0 cm) (depends on riser height)	48.8 in–60.9 in (124.0 cm–154.7 cm) (depends on riser height and accessory height)
Maximum Speed	3.9 mph (1.75 m/s) 3.9 mph (1.75 m/s)	
Turning Radius	Turn in place Turn in place	
Nominal Continuous Runtime	~9 hrs	~9 hrs
Environment	Indoors, ADA-compliant	Indoors, ADA-compliant
Charging	Autonomous docking	Autonomous docking
Charge Time	3 hrs to 90%	3 hrs to 90%
2D Laser Sensor	SICK, 82 ft (25 m), 220 degrees	SICK, 82 ft (25 m), 220 degrees
3D Camera	Yes (x2)	Yes (x2)



Order Picking



Assembly and QA



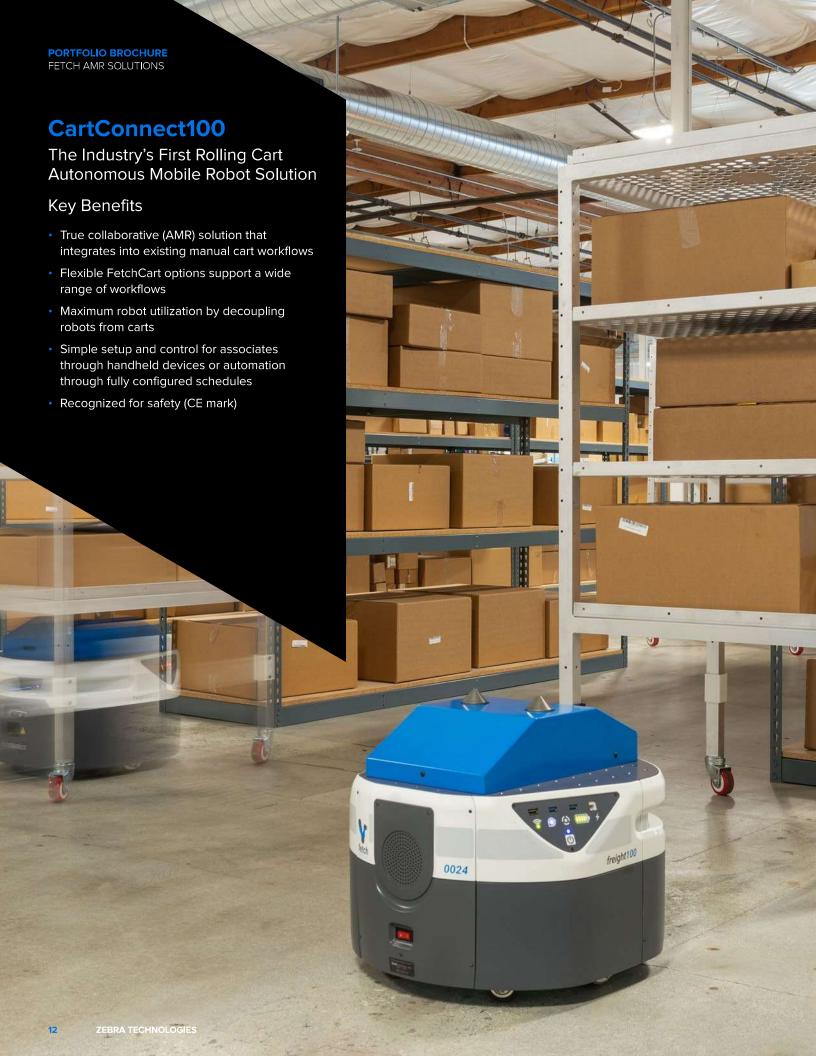
End of Line Handling



ASRS Induction



Rush Orders



Warehouse Carts 2.0

The CartConnect AMR system features an advanced mobile robot that can autonomously pick up and drop off FetchCarts to any location within your facility. FetchCarts are available in three sizes—Standard, Tall and a flexible cart Base option that allows you to customize the cart to suit your specific payload.









Specifications	CartConnect	FetchCart Base	FetchCart	FetchCart Tall*
Weight	163 lb (74 kg)	85 lb (38.5 kg)	75 lb (34 kg)	85 lb (38.5 kg)
Height	19.5 in (49.6 cm)	65 in (165 cm)	55.1 in (140 cm)	65 in (165 cm)
Base Footprint	20.7 in (52.7 cm) wide, 22.6 in (57.3 cm) diameter	32.7 in (83 cm) width, 32.7 in (83 cm) length	32.7 in (83 cm) width, 32.7 in (83 cm) length	32.7 in (83 cm) width, 32.7 in (83 cm) length
Shelf Width	_	32.7 in (83 cm)	32.7 in (83 cm)	32.7 in (83 cm)
Shelf Depth	_	32.7 in (83 cm)	32.7 in (83 cm)	32.7 in (83 cm)
Max Payload Weight	_	Up to 115 lb (52.5 kg)	Up to 125 lb (57 kg)	Up to 115 lb (52.5 kg)
Max Speed	3.4 mph (1.5 m/s)	_	_	_
Turning Radius	Turn in place	Turn in place	Turn in place	Turn in place
Continuous Runtime	~9 hrs	_	_	_
Environment	Indoor	Indoor	Indoor	Indoor
Charging	Autonomous docking	_	_	_
Charge Time	3 hrs to 90%	_	_	_
2D Laser Sensor	82 ft (25 m), 220 degrees (x1)	_	_	_
3D Camera	Yes (x2)	_	_	_

^{*} Requires a risk assessment



Case Picking



Replenishment / Putaway



Raw Material Delivery



ASRS Induction



E-Commerce Fulfillment



Staging / Consolidation

Product Spotlight

FetchCart Base

Maximize Every Payload with Custom Carts

Move More Material Types

FetchCart Base serves as the starting point for designing your own customized material transport system and applying automation creatively and efficiently throughout your facility. You can accommodate a wide variety of payloads and maximize capacity per your application requirements. FetchCart Base uses the same reliable docking mechanism as our standard FetchCarts, so CartConnect100 AMRs interface seamlessly.

Some unique applications include: detrash and dunnage removal, parts and tools delivery, replenishment of packing materials, gravity feed racks for manufacturing work cells, and many more. Please contact Fetch Robotics for detailed specifications and measurements.









PORTFOLIO BROCHURE FETCH AMR SOLUTIONS **HMIShelf** V fetch All-in-One Transport and Operator Interface **△=**⊘ Key Benefits Quickest deployment solution Set up and use in hours, redeploy easily • Ideal for small and medium payloads Configurable shelving for various bin, tote and package sizes Reduce associate travel time and increase productivity in low dwell time and high volume environments Simple operation with built-in, easily configured touchscreen **fetchrobotics**

Transport for Packages, Totes and Bins

HMIShelf robots set the standard for commercial-ready AMRs transporting material in busy warehouse and manufacturing environments. The most advanced collaborative AMRs, like the Fetch HMIShelf robots, have the ability to plan optimal point-to-point travel while navigating around obstacles. HMIShelf robots have numerous additional enhancements to safely avoid moving obstacles such as forklifts and carts. Integrated touchscreens and adjustable shelving make HMIShelf robots an easy and flexible way to offload material transport tasks.

Specifications	HMIShelf
Weight	198.5 lb (90 kg)
Height	59.7 in (151.6 cm)
Base Footprint	22.6 in (57.3 cm) diameter
Shelf Width	20.5 in (52.2 cm)
Shelf Depth	16.5 in (42.1 cm)
Maximum Payload Weight	172 lb (78 kg)
Maximum Payload Height	30.0 in (76.3 cm)
Maximum Speed	3.4 mph (1.5 m/s)
Turning Radius	Turn in place
Nominal Continuous	~9 hrs
Runtime	
Environment	Indoor
Charging	Autonomous docking
Charge Time	3 hrs to 90%
2D Laser Sensor	82 ft (25 m), 220 degrees (x1)
3D Camera	Yes (x2)





Order Picking



Assembly and QA



ASRS Induction



Rush Orders



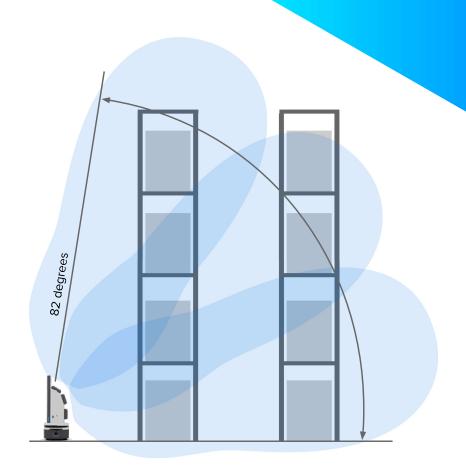
Returns Processing



Pinpoint Your Inventory Multiple Times per Day

Lost or misplaced inventory can cost millions of dollars in expedites, re-orders and write-offs, as well as wasted hours searching for inventory. Manual counts are time-consuming and errorprone. Tagging assets with RFID immediately improves inventory tracking, increases accuracy and saves time.

With the TagSurveyor solution, warehouses and manufacturing facilities can increase the frequency of inventory counts from once a month to multiple times a day, even with the largest operations. Facilities across both the private and public sectors use TagSurveyor to keep track of assets.



Robot Specifications		
Weight	200 lb (91 kg)	
Height	4 ft 5 in (1.3 m)	
Footprint	22.6 in (57.3 cm) diameter	
Maximum Speed	3.4 mph (1.5 m/s)	
Turning Radius	Turn in place	
Runtime	~9 hrs	
Environment	Indoor	
Charging	Autonomous	
Charge Time	3 hrs to 90%	
2D Laser Sensor	82 ft (25 m), 220 degrees (x1)	
3D Camera	Yes (x2)	

RFID Specifications	
Output Power	Up to 4W EIRP (Equivalent Isotropic Radiated Power)
Antennas	Circular polarized antennas (x3)
Antennas Gain	4.4 dB (±1 dB)
Carrier Frequency	902.75–927.25 MHz
RFID Protocol	EPC UHF Class 1 Gen 2, ISO 18000-C
Read Range	Up to 25 ft (7.6 m)*

^{*} Read range, coverage and sensitivity will vary based on environment, tag placement and tag density.



Cycle Counting



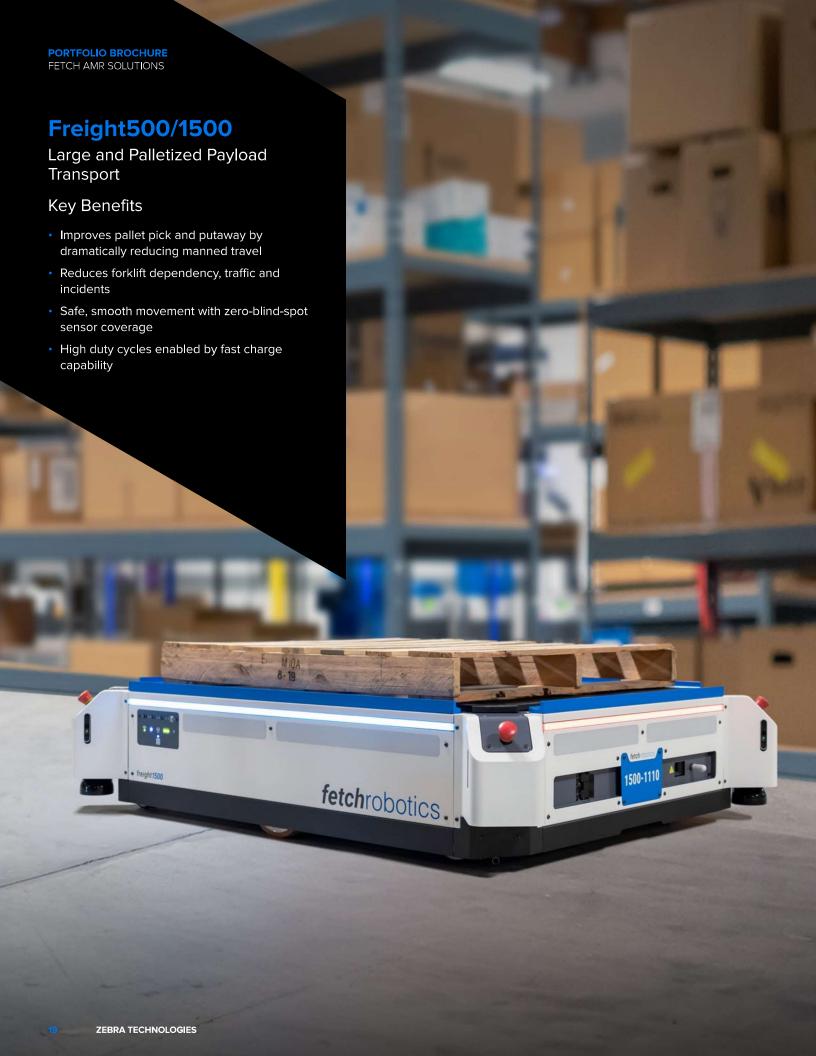
Physical Inventory Check



Find Inventory



Asset Tag Tracking



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 40×48 inch pallets.

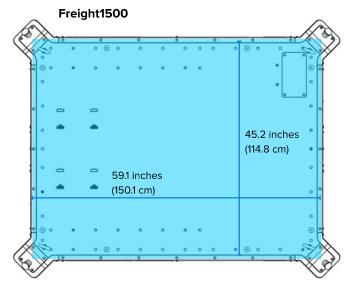
Industry-Leading Safety Features

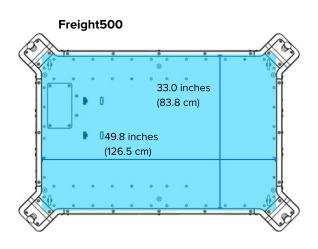
Freight500 and Freight1500 feature Fetch Robotics' industry-leading dynamic obstacle avoidance technology as well as a certified hardware-based safety system that conforms to both CE and RIA R15.08 requirements, allowing these large AMRs to operate safely around associates and vehicles.

Freight500/1500 Max Payload Height



Freight500/1500 Max Payload Dimensions









Freight1500 1,037 lb (471 kg) 14.0 in (35.6 cm) 7.3 in (445.2 cm) III F 2.6 in (422.5 cm) IV 66.5 in (462.8 cm) III
14.0 in (35.6 cm)
<u> </u>
2 in /1/E 2 cm) E2 6 in /122 E cm) W 66 E in /169 9 cm)
.2 in (145.2 cm) L 52.6 in (133.5 cm) W, 66.5 in (168.8 cm) L
3,300 lb (1,500 kg)
3.4 mph (1.5 m/s)
Turn in place
phosphate Lithium iron magnesium phosphate
~9 hrs
Autonomous docking
1 hr to 90%
75 degrees 2x SICK, 98 ft (30 m), 275 degrees
x8 cameras) 360 degree coverage (x8 cameras)
100 dB
67
Indoor



Case Picking



Pallet Movements



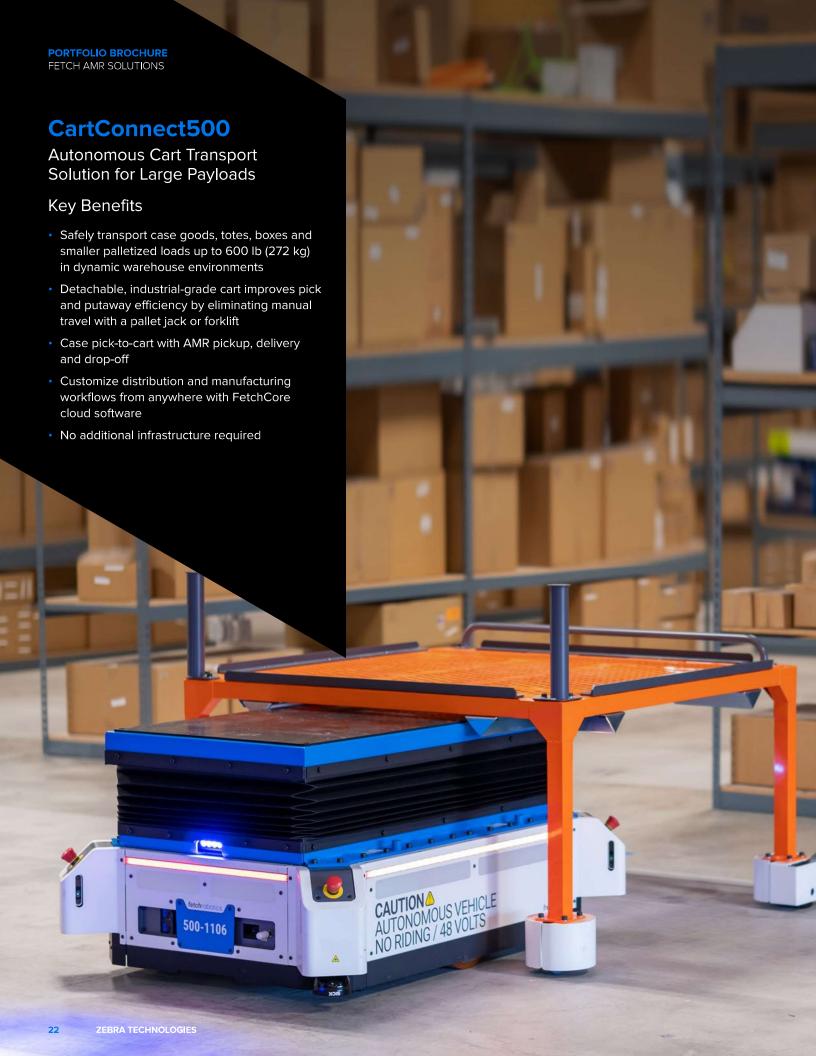
Putaway



Crossdocking / Consolidation



Packing and Pallet Recycling







Specifications	CartConnect500	FetchCart500
Weight	1,111 lb (505 kg)	200 lb (91 kg)
Height	26.5 in (67.2 cm) with lift retracted, 32.2 in (81.8 cm) with lift extended	27.2 in (69.1 cm)
Base Footprint Length	57.2 in (145.2 cm)	59.5 in (151.1 cm)
Base Footprint Width	40.4 in (102.5 cm)	59.6 in (151.4 cm)
Cart Deck Length	_	53.4 in (135.5 cm)
Cart Deck Width	_	53.4 in (135.5 cm)
Maximum Payload Weight	800 lb (362.9 kg)	600 lb (272 kg)
Maximum Speed	3.4 mph (1.5 m/s)	_
Minimum Aisle Width	8.5 ft (2.6 m)	9.8 ft (3 m) with robot
Battery	Lithium iron magnesium phosphate	_
Nominal Continuous Runtime	~9 hrs	_
Charging	Autonomous docking	_
Charge Time	1 hr to 90%	_
2D Laser Sensor	2x SICK, 98 ft (30 m), 275 degrees	_
3D Camera	360 degree coverage (x8 cameras)	_
Audio	100 dB	_



Case Picking



Replenishment / Putaway



Raw Material Delivery



ASRS Induction



E-Commerce Fulfillment



Staging / Consolidation



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)

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

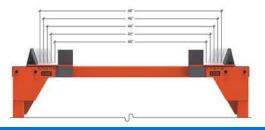
Pallet Transfer Station



Pallet Transfer Station Specifications		
Height	30.6 in (77.8 cm)	
Width	66.5 in (168.9 cm)	
Depth	59 in (149.9 cm)	



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



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)

Optimize Material Handling with Cloud Robotics and FulfillmentEdge by Zebra

Gain a Competitive Edge with Zebra and Fetch

The new on-demand economy is placing pressure on warehouses all around the world—translating into more orders to fulfill, faster than ever.

Zebra's FulfillmentEdge is a completely new and smart approach to warehousing that wraps around and modernizes your current WMS—without upgrades, backend changes or disrupting your current operations. The combined power of Fetch AMRs and Zebra FulfillmentEdge software optimizes picking across multiple orders while dynamically orchestrating workers and robots.

This allows your existing workforce to pick up to 24% more orders, along with a 90% reduction in onboarding and training time. By integrating with Fetch AMRs, you can achieve up to 78% improvement in productivity by automating long-haul material transport, including piece, case and pallet picking workflows.

Get the most out of every step that every worker takes to maximize productivity and throughput in your warehouse with FulfillmentEdge and Fetch Robotics.



Zebra **FulfillmentEdge**™

Pick faster and more efficiently through optimized pick paths across multiple orders



Transform unnecessary human material movement time into productive picking time

Partner Spotlight

K.Motion Warehouse Advantage



Optimize Material Handling with Cloud Robotics and Warehouse Advantage by Körber

Körber and Fetch Have the Advantage

Supply chains are becoming increasingly complex. Along with more products, suppliers and distribution channels to meet heightening consumer expectations, businesses are faced with global labor challenges. New and emerging technologies, such as robotics, can help. However, many businesses struggle with implementation, integration, maintenance, training and costs. Together, Körber and Fetch overcome these challenges.

Through integration with Körber's warehouse management systems, innovating customers looking to keep up with explosive e-commerce demand can enable voice-directed, AMR-assisted collaboration to enhance fulfillment, picking, replenishment and beyond. The result is a truly flexible automation platform—providing immediate value by simplifying operations, maximizing productivity and making the most of capacity.





Partner Spotlight



Optimize Material Handling with Cloud Robotics and COFE by VARGO

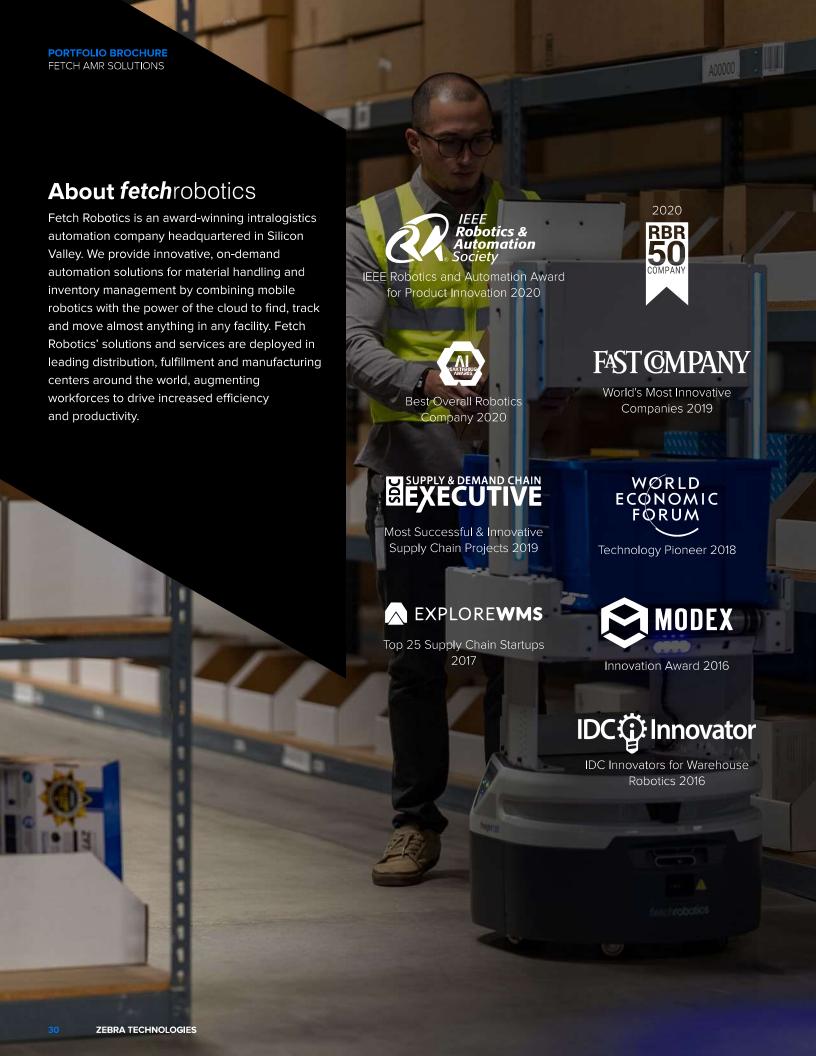
The Future of E-Commerce Fulfillment

The growth of e-commerce and omnichannel fulfillment has pushed companies to optimize their order fulfillment processes to gain efficiencies and to do so with more speed and accuracy. This trend has been further accelerated by COVID-19, which has placed additional strain on distribution centers to increase throughput while keeping employees socially distanced.

The combined solution from Fetch and VARGO® enables a single system to provide optimized piece, batch and case picking workflows with payloads up to 1½ tons (1,360 kg) for e-commerce, retail distribution and omnichannel operations. The COFE® WES is the only WES that controls all the processes that take place inside a distribution center, from material handling equipment to the devices, people and processes. COFE's "pull-based" fulfillment optimization can yield efficiency gains of over 30% compared to sites driven by traditional "waved/push-based" warehouse management systems. When combined with Fetch's AMRs, COFE can offer further efficiency gains by allowing workers to spend more time picking as opposed to manually moving material throughout a facility and can use insights about overall warehouse operations to improve robot workflows.









Discover How Cloud Robotics Can Work for You Visit **fetchrobotics.com** for more information.



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