



SPECIFICATIONS

02.15.2016

FETCH OVERVIEW



FETCH SPECIFICATIONS

Fetch Robot

Weight	113.3kg (250lbs.)
Height	1,096mm down, 1,491mm up
Base footprint	508mm (20in) wide, 559mm (22in) dia.
Max speed	1.0m/s (2.23mph)
Degrees of freedom	13 (base, torso lift, 7-DOF arm, gripper and head)
Environment	Indoors, designed for ADA-Compliant buildings

7-DOF arm

Payload (at full extension)	6kg (less gripper mass)
Arm length to gripper mount	940.5mm
Max end effector speed	1.0m/s

Sensors

2D laser	25m, 220 degrees
3D RGB-D	Primesense Carmine 1.09 in head
IMU (2)	6-DOF IMU in base and gripper

Gripper

Max grasp force	245N
Max gripper opening	100mm

Computer

Processor	Intel i5, Haswell
RAM	16GB
Hard drive	120GB SSD
Wireless	Integrated 802.11ABGN and 802.15.1
Speaker	Stereo speaker in base

Gripper modularity interface

Mechanical	Based on ISO 9409-1 50-4-M6
Power	24V@2A
Communication	Ethernet

Extensibility

Mount points	On top of base and on top of head
Video port	HD video port
Other ports	3x USB, 1x Ethernet

Installed software

Ubuntu Linux LTS, ROS

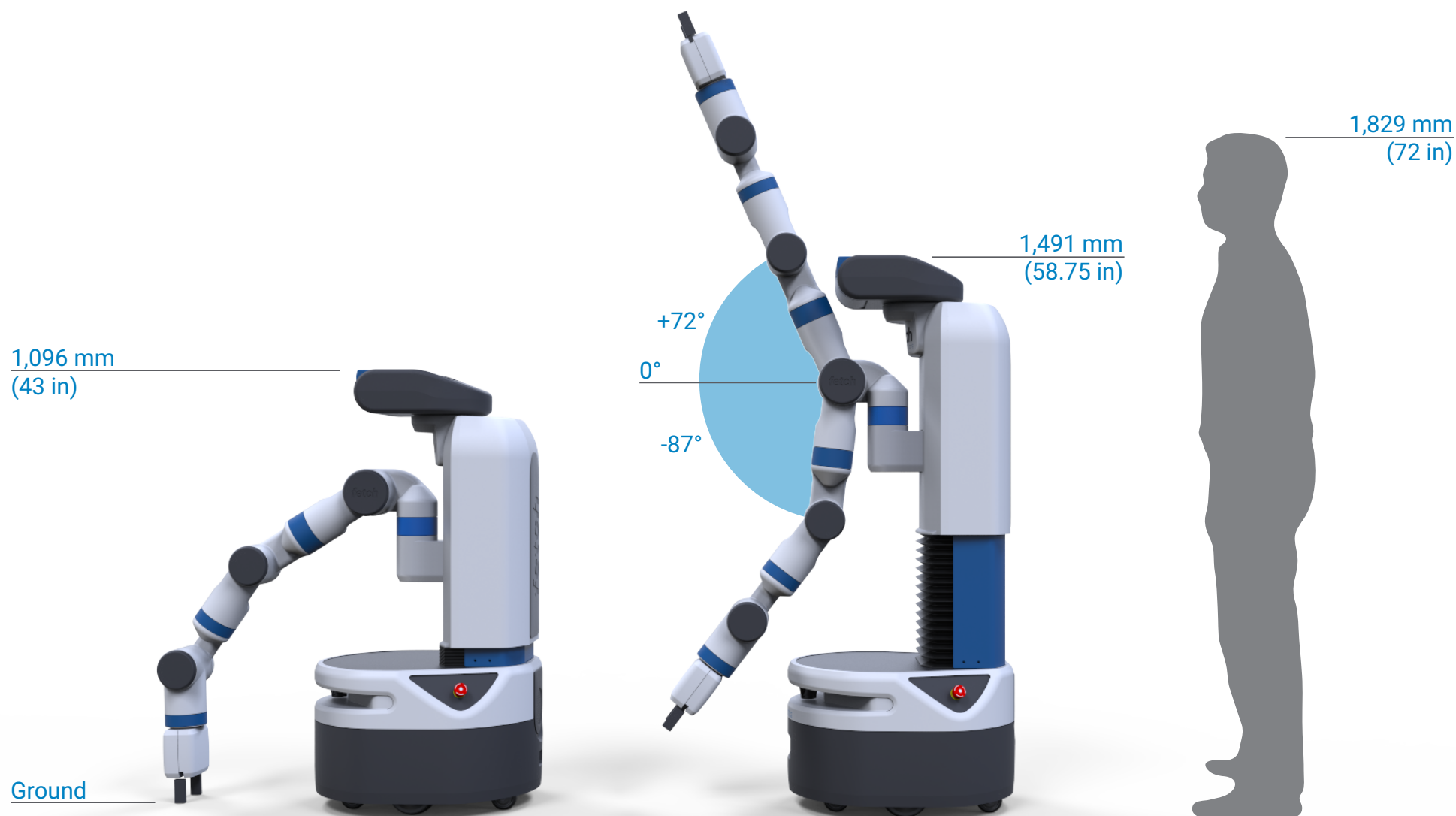
Installed applications

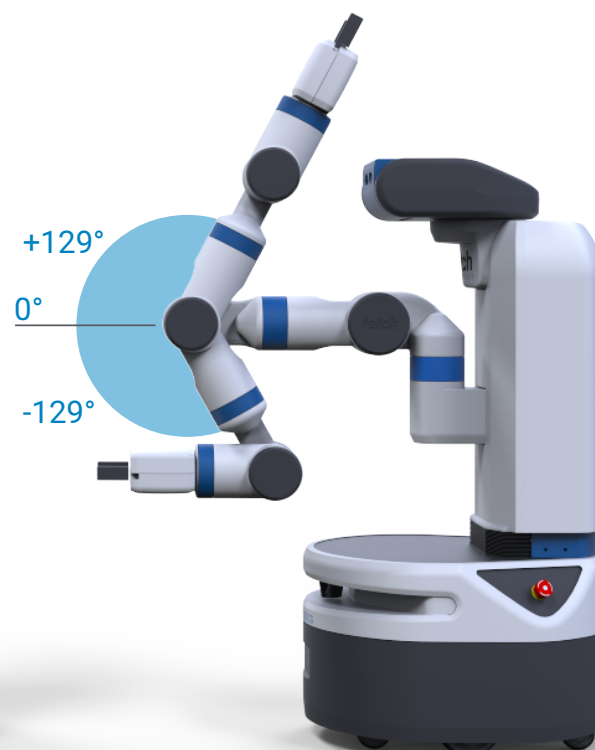
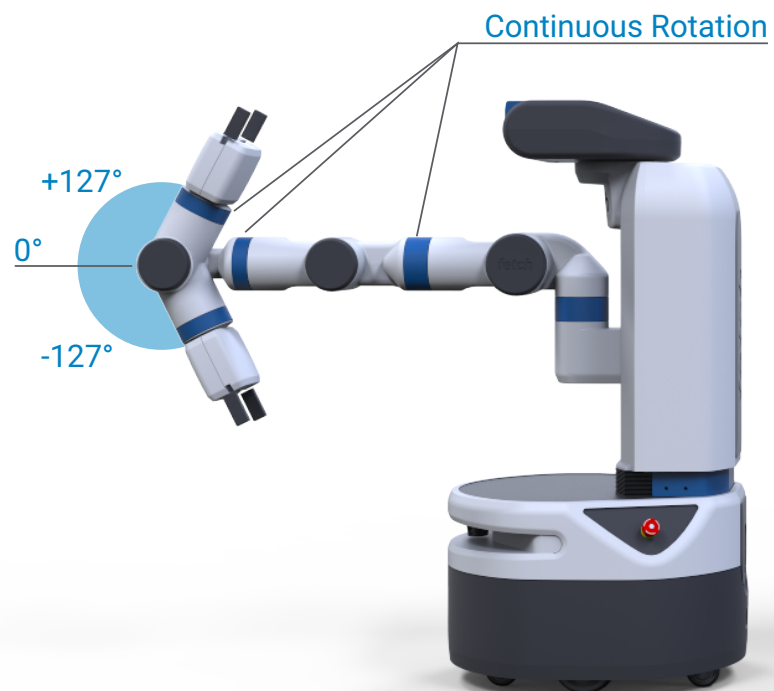
ROS Navigation, MoveIt!, joystick teleop, calibration

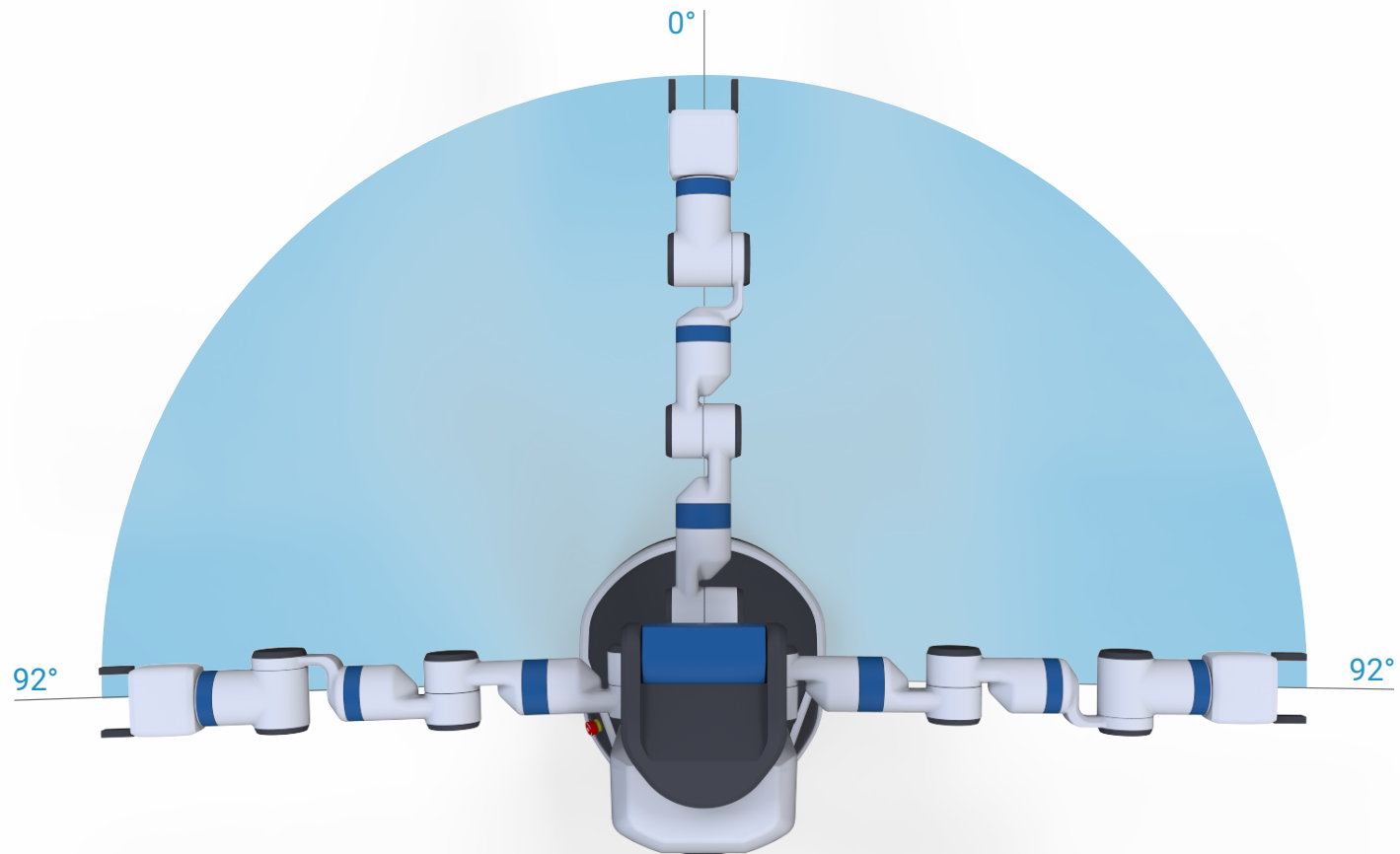
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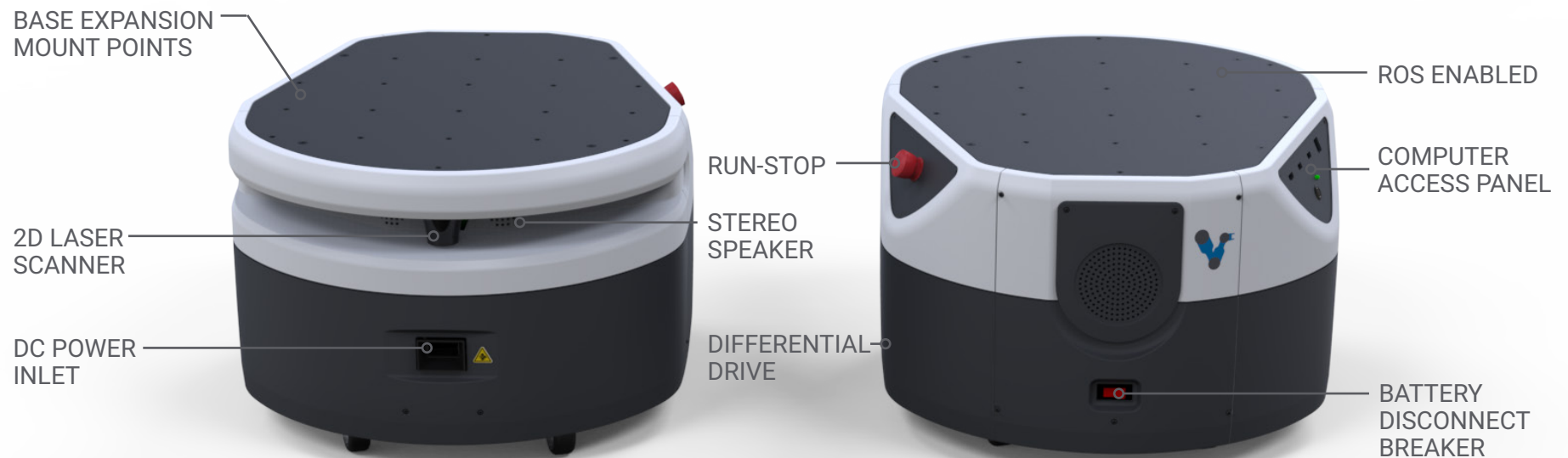
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FREIGHT OVERVIEW



FREIGHT SPECIFICATIONS

Freight Robot

Weight	68kg (150lbs.)
Height	359mm (14in)
Base footprint	508mm (20in) wide, 559mm (22in) dia.
Max speed	2.0m/s (4.47mph)
Environment	Indoors, designed for ADA-Compliant buildings

Sensors

2D laser	25m, 220 degrees
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Computer

Processor	Intel i3, Haswell
RAM	8GB
Hard drive	120GB SSD
Wireless	Integrated 802.11ABGN and 802.15.1
Speaker	Stereo speaker in base

Extensibility

Mount points	On top of base
Video port	HD video port
Other ports	2x USB, 1x Ethernet

Installed software

Ubuntu Linux LTS, ROS

Installed applications

ROS Navigation,
joystick teleop, calibration

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