



SPECIFICATIONS

07.28.2017

FETCH OVERVIEW

3D RGB DEPTH
SENSOR

BACK-DRIVABLE
7DOF ARM

INTERCHANGEABLE
FINGERTIPS

MODULAR PARALLEL
JAW GRIPPER

BASE EXPANSION
MOUNT POINTS

2D LASER
SCANNER

DC POWER
INLET

ROS ENABLED

RUN-STOP

STEREO
SPEAKER

DIFFERENTIAL
DRIVE

HEAD EXPANSION
MOUNT POINTS

PAN-TILT HEAD

TORSO LIFT
JOINT

COMPUTER
ACCESS PANEL

BATTERY
DISCONNECT
BREAKER



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

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

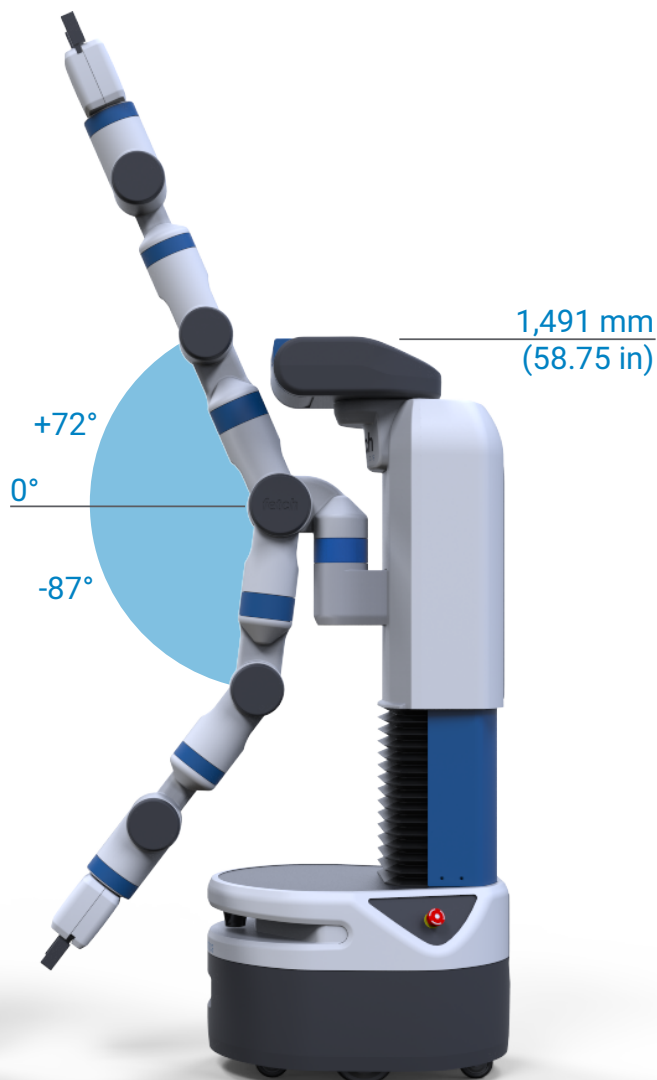
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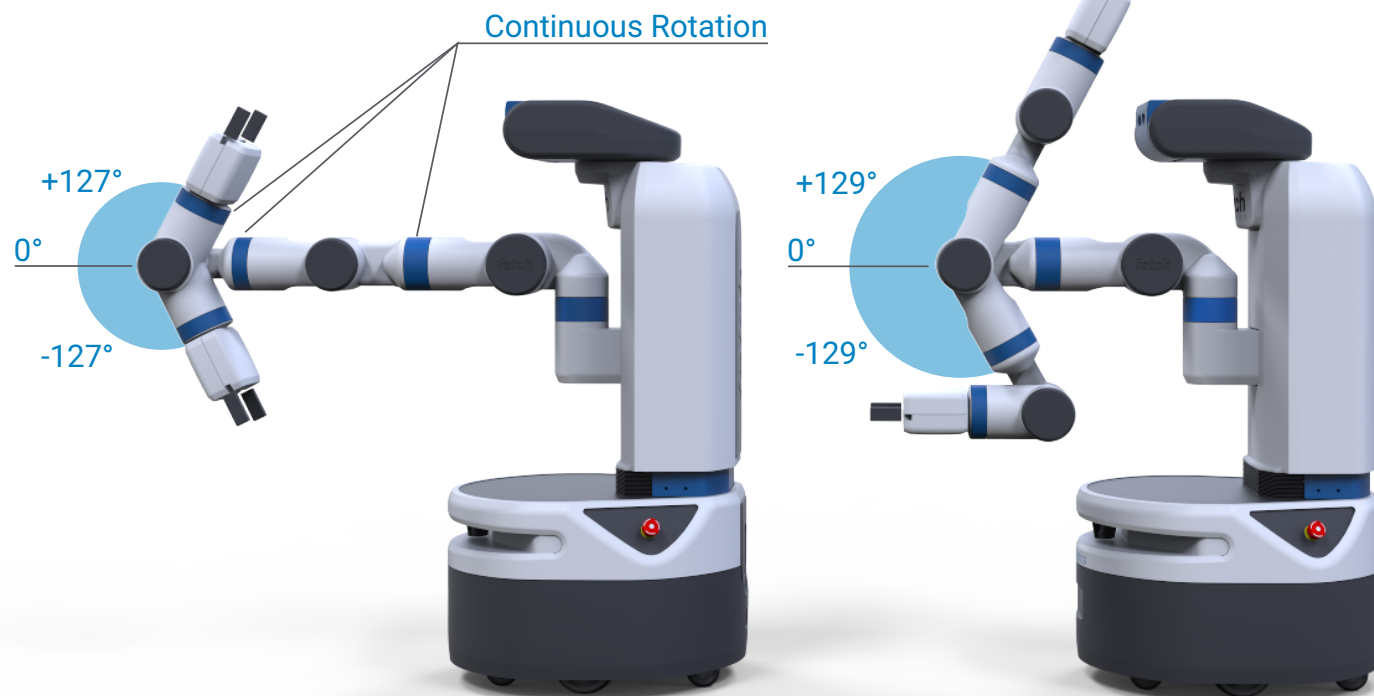
1,096 mm
(43 in)

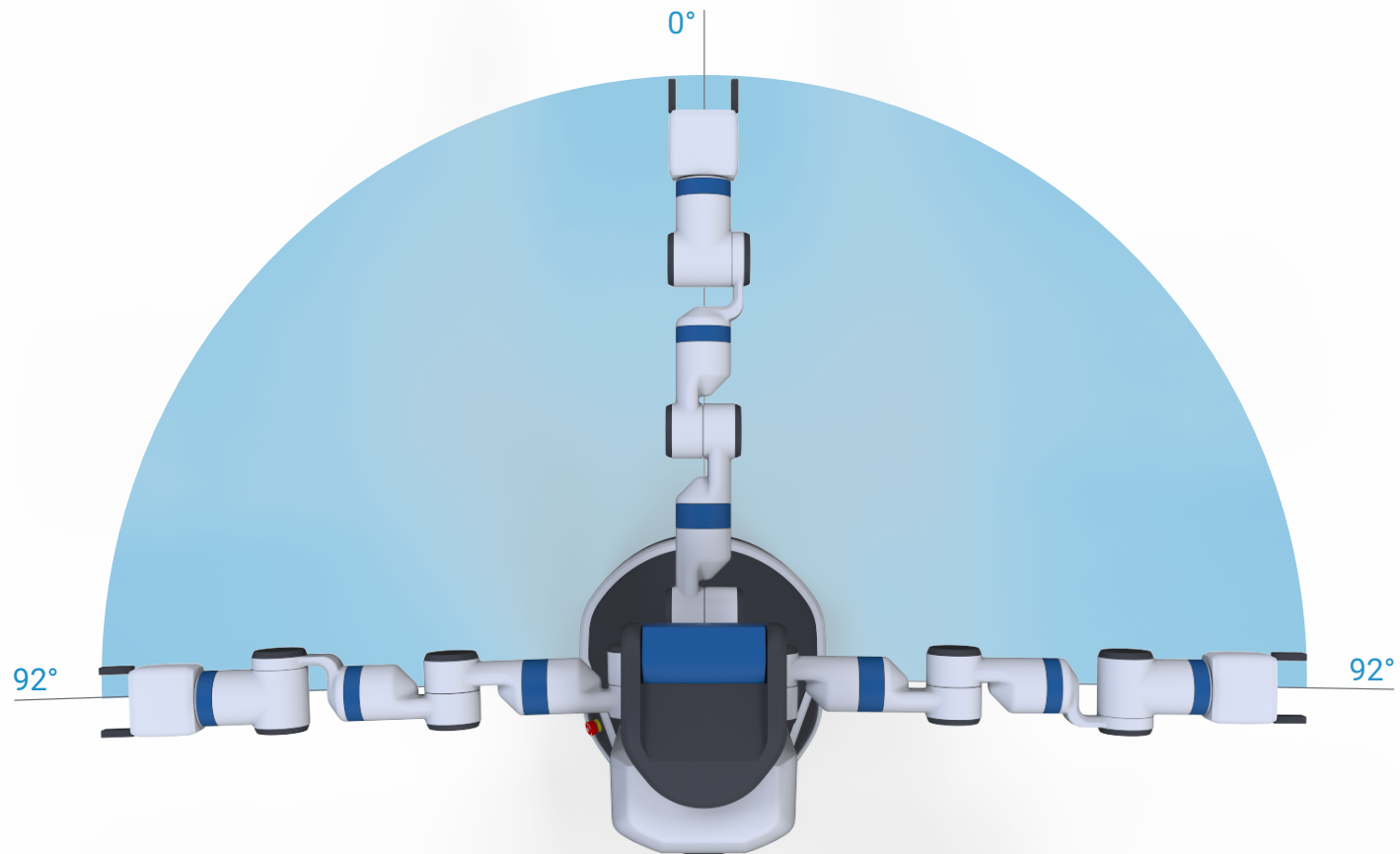
Ground



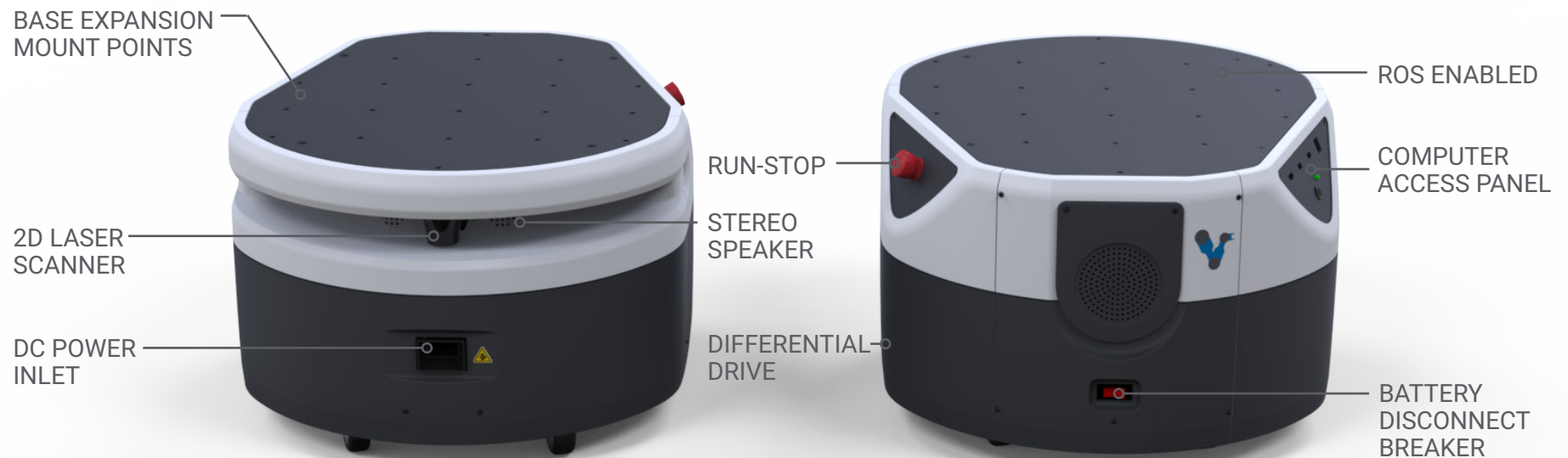
1,829 mm
(72 in)







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,

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, 2x Ethernet
Power	24V@10A
Communication	RS45

Installed software

Ubuntu Linux LTS, ROS

Installed applications

ROS Navigation,
joystick teleop, calibration

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