



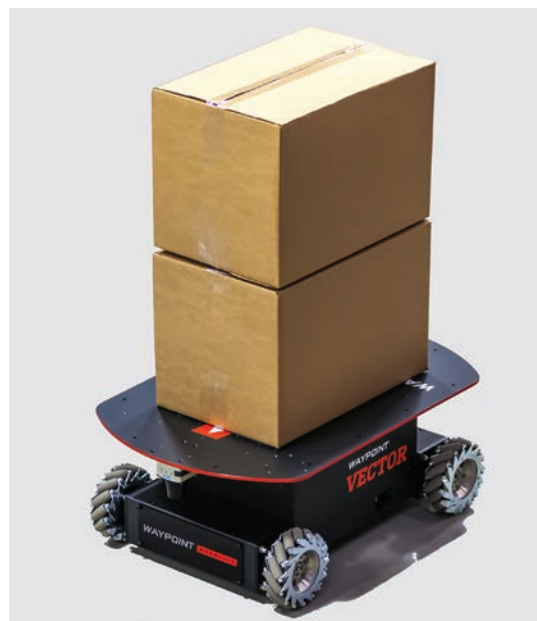
ROS native robot for the laboratory or factory

Meet the newest autonomous mobile robot from Waypoint Robotics. Vector is a ROS Native robot, meaning it was designed and built from the ground up to be ROS (Robot Operating System) compatible; as opposed to other robots where ROS integration is an afterthought. It's an omni directional, compact, industrial strength, commercial grade robot designed to meet the needs of corporate and academic researchers.

VECTOR HIGHLIGHTS

Vector is small and agile enough to work in a standard home or office environment, but it's tough enough for the factory floor. Commercial customers looking to automate tasks like material handling or adding mobility to cobots, will find Vector to be a ready and reliable work horse. Vector can navigate autonomously right out of the box and the smart-battery system has enough energy to work all day.

- Enhanced safety architecture
- Substantial payload capacity (300 lbs.)
- ROS-native
- Compact configuration
- Precision, industrial, planetary gearbox
- Roll degree of freedom allows operation over cracks, depressions or bumps of up to 1" without losing traction



Specification Overview



AUTONOMOUS MOBILE ROBOT PLATFORM					
OVERALL DIMENSIONS	673(L) x 502(W) x 305(H) mm	BATTERY CHEMISTRY	LiFePO4	MAX SPEED	2.0 m/s
PLATFORM WEIGHT	45.4 kg (100 lbs)	RUN TIME	8 hrs (standby) 5 hrs (full system load)	MAX SLOPE*	5°
CLEARANCE	25.4 mm (1 in)	CHARGE TIME**	5 hrs (Standard) 2hrs (Fast Charger)	PEAK TORQUE (per wheel)	15.5 N-m
MAX PAYLOAD	136 kg (300 lbs)	PROPULSION BATTERY CAPACITY	1024 Wh	MAX RANGE	36 km (22.4 mi)
COMMUNICATION	Ethernet, USB	AUXILIARY BATTERY CAPACITY	Shared with Propulsion Battery	INGRESS PROTECTION	IP2X

*Maximum slope with maximum payload. Recommended slope is 5° with continuous maximum payload. See the User Manual given on our Resources Page for more details.

** Fast Charger available

VECTOR NAVIGATOR™ (STANDARD)

The Vector Navigator™ package includes front and rear laser sensors to perform 2D navigation in structured indoor environments. The navigation system comes with fully tuned mapping, global localization, and trajectory planning. ROS modules come tuned specifically for Vector vehicle dynamics and performance.

VECTOR NAVIGATOR ELITE™

The Vector Navigator Elite™ package enables 3D navigation in unstructured indoor and outdoor environments. Includes high performance 3D perception, machine vision, GPS, and upgraded PC for maximum performance. ROS modules come tuned specifically for Vector vehicle dynamics and performance.

CONTACT US TO LEARN MORE

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