

Without “human,” there is no “robot”

At Kinova, it takes a lot of humanity to build one of our robots. No matter for whom or for what purpose we create a solution, there’s always a fellow human in mind: the worker in the manufacturing plant, the surgeon in the operating room, the researcher, the first-responder – and countless others. By pouring our hearts and minds into every piece of technology we develop, Kinova empowers these people to achieve the extraordinary in their own way.

**There is no need too small.
No task too great.**

KINOVA
Achieve Extraordinary

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**Light your path
to limitless discovery**

KINOVA MOVO®
Mobile manipulator

KINOVA

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Unique features, unprecedented performance

The KINOVA MOVO® *Mobile manipulator* series is designed to aid researchers by enabling them to discover innovative approaches and applications for mobile manipulation. Our solutions offer you a unique combination of performance, scalability, modularity, configurability and openness. We've designed and developed them entirely using ROS, along with MoveIt! and Gazebo, along with an application programming interface (API) that provides your research team with the most advanced functionality in all areas of robotics.



OPEN HIGH-END HARDWARE

Saves time and effort and allows you to focus on your research topic



CONNECTIVITY

Ethernet, Wi-Fi, HDMI and USB



ASSISTED TELEOPERATION

Drive the mobile manipulator while its sensors assist in preventing collisions



SLAM

High-performance odometry, sensors and ease-of-use



ROS-NATIVE

Including MoveIt! and Gazebo integration



ENHANCED NAVIGATION

Navigates autonomously right out of the box



MAP CREATION

The platform creates its own maps for autonomous navigation

A multitude of research fields



ARTIFICIAL INTELLIGENCE

ADVANCED SENSING



MOTION PLANNING

SLAM



Specifications

Physical	Height:	1,100 to 1,580 mm (43 to 62 in)
	Base footprint:	508 mm width x 810 mm depth (20 x 32 in)
	Operational environment:	indoor (+5 to +40°C) (+41 to +104°F)
	Run time:	8 hrs (normal usage)
	Recharge time:	5 hrs (standard)
		2 hrs (fast charger)
DOF:	8-26 DOF	
Manipulator	Arm:	0,1 or 2 KINOVA® <i>Ultra lightweight robotic arms</i>
	Gripper:	2 or 3 fingers
	Maximum linear arm speed:	20 cm/s (7.8 in/s)
Mobile Base	Max speed:	2 m/s (78.8 in/s)
	Drive:	holonomic
Sensors	Platform:	2D Planar laser (front and rear)
	Head:	Kinect One sensor
	Actuator:	Position, velocity, torque, temperature
Computer	Navigation and perception:	2 dedicated PCs
	CPU:	Intel NUC Kit NUC5i7RYH
	RAM:	16 GB
	Hard disk:	128 GB SSD
Connectivity	Ethernet	USB 3.0
	HDMI	3.5 mm audio input

Benefit from KINOVA MOVO® Mobile manipulator

With the KINOVA MOVO® *Mobile manipulator* in its beta cycle, we're looking for qualified collaborators to bring our platforms into their research spaces, share their experience, findings and inspiration with us, and help us discover new applications. Beta members receive a whole host of benefits, including discounted rates, free in-kind research and development support from Kinova's field application engineer and more. Being one of the first to use our mobile manipulator platform isn't simply about getting in on the ground floor – it's about fostering a community of collaborators. Join us.

