



The lightest solution for the most heavy-duty applications

KINOVA™
Ultra lightweight robotic arm

The products that started it all

Whether you're seeking greater control over your daily life or looking to lead the charge for innovation in your industry for years to come, Kinova can customize solutions to help you meet your specific needs. Our robotic arms are designed to augment human capability in any environment – at home, in research labs and medical facilities, in manufacturing plants, and many more. Our robotics put the human at the forefront, meaning the individual is always in control of the technology, and the technology always complements the individual. Together, extraordinary results are within reach.

Research

Helping you become a recognized leader and expert in your field.

Increase the efficiency of your workspace

Kinova brings adaptability, flexibility and scalability to your lab, meaning your teams will spend more time achieving results and less time building towards them. Our solutions can adapt to any work environment to address multiple needs, and are built to withstand both physical force and the evolution of other technologies, no matter how the needs of your research space advance over time.

Advanced Manufacturing

Servicing industries with solutions to serve their workers.

Innovate the way you manufacture

Kinova looks at Industry 4.0 in new and innovative ways to address the real needs of manufacturing. Our flexible, scalable robots do more than just provide your establishment with adaptability to empower your workers. They ensure safer, more secure processes throughout your production lines; gather information about your needs to work intuitively; and establish advanced efficiency as the norm within your work environment.



Inspection and Maintenance

Providing the right structure to create the right solutions for you.

Add expertise and logistics to your operation

Kinova develops flexible, adaptable, service-oriented devices built to complement and interact with any parts and objects you use, or any type of environment in which you work. Our solutions are uniquely mobile and versatile, and made accessible technically and financially by way of our flexible models and expert teams working with you to ensure you get the most from our equipment, whether you're a robotics expert or not. Talk to us about how we can work together.



Security

Keeping people, cities and countries out of harm's way.

Enhance your control in any scenario

Our robotics put your skilled workers in full control of any high-risk situation, no matter the level of danger involved. We've developed our technology to ensure that a human must be actively involved, in order to make the right call at the right time at the speed required. Being at the commands of a product with superior control allows you to perform any defusal or disposal more securely and efficiently.

OEM Services

Building the platforms that drive your success through collaboration.

Get the most out of your project

Every platform we develop is based on three key concepts that go into all of our technologies. Adaptability allows us to build customized platforms to suit a wide range of purposes – bomb disposal, medical intervention and everything in between. Flexibility means your platform will be built to withstand even the toughest physical conditions. And because technology advances very quickly, scalability means your platform will evolve well over time, so we won't need to build you a new one later.

New name.
Same reliability.
Same personalized
approach.

Empower yourself the ultra lightweight way

Imagine a robotic arm that can be comfortably operated and used to manipulate objects in any three-dimensional workspace with very low power usage – but that’s also just a fraction of the weight of traditional robotic arms. Weighing in at just 4.4 kg, the KINOVA™ *Ultra lightweight robotic arm* gives your team a plug-and-play option developed with open architecture, and compatible with both ROS and our software, giving you performance, flexibility and ease all in one.

Each aluminum actuator contained within the carbon-fibre frame of our robotic arm contains torque, position, current, temperature and acceleration sensors, helping to prevent any human near or operating the robotic arm from being harmed by it. Our KINOVA™ *Ultra lightweight series* offers embedded controllers and provides intuitive Cartesian control, adding ease to versatility.

Specifications summary



Degrees of freedom (DOF)



Wrist angle



Weight



Payload (mid-range)



Reach



Average power consumption

Degrees of freedom (DOF)	Wrist angle	Weight	Payload (mid-range)	Reach	Average power consumption
7 spherical	90°	5,5 kg	2,4 kg	98,4 cm	
6 spherical	90°	4,4 kg	2,6 kg	98,4 cm	
6	60°	4,4 kg	2,6 kg	90,0 cm	25 w
4	60°	3,6 kg	4,4 kg	75,0 cm	



**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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