

KINOVA JACO®
Assistive robot

**Without “human”,
there’s 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, especially those with limited upper-limb mobility. By pouring our hearts and minds into every piece of technology we develop, Kinova empowers people to achieve the extraordinary in their own way.

**There’s no need too small.
No task too great.**

KINOVA
Achieve Extraordinary

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**Enabling
the impossible**

KINOVA
Achieve Extraordinary

Bringing greater autonomy back to your daily life

The humans we seek to empower are as diverse as they come. KINOVA JACO® Assistive robot provides support to individuals affected by a vast array of conditions:

- Muscular dystrophy
- Spinal muscular atrophy
- Spinal cord injury
- Quadriplegia
- Amyotrophic lateral sclerosis
- Cerebral palsy
- Upper limb amputation

Regardless of whether you're old or young, female or male, or the degree to which you require assistance, our robotic arm is adaptable to your situation and your environment.



Solutions for users

Discover your independence

Users will achieve a newfound sense of autonomy and an improved quality of life. The robotic arm can help maximize your abilities and decrease your reliance on family members and care providers, letting you function at a higher level both at home and in society. According to a 2011 study, the purchase price of a robotic arm is generally amortized in less than three years.¹



Solutions for therapists

Increase efficiency and quality of care

Kinova's range of technologies increases the amount of time you have to do your job at the highest level by making numerous tasks that much easier. Whether you're a therapist, a home-care assistant or rehab specialist, you can go to work every day knowing that your clients have access to innovative care and services that will enhance their quality of life, improve their level of function and help them perform more tasks for themselves. For you, this means spending your time providing increasingly focused treatment, enjoying quality time with your client, etc.



Solutions for clinics

Augment capabilities from all angles

Integrating Kinova technology into your clinic can increase its versatility in several ways. From a client perspective, your team of doctors, physical therapists and rehabilitation specialists will be able to offer them advanced techniques, opening up a new set of therapeutic strategies. For staff and residents, you'll also be fostering an environment that encourages them to learn and adapt to next generation technologies now entering therapists' toolboxes, which are quickly becoming the standard of care.

¹ Maheu, V., S. Archambault, P., Frappier, J. et Routhier, F. (2011). Evaluation of the JACO robotic arm: Clinico-economic study for powered wheelchair users with upper-extremity disabilities. Montréal, Québec.

Helping humanity reach the impossible since 2006

KINOVA JACO® Assistive robot offers individuals a fundamental and life-changing improvement by helping users achieve many objectives as defined by the International Classification of Functioning, Disability and Health (ICF)² and much more.

- Eating & Drinking
- Personal Hygiene & Medication Management
- Leisure & Active Life
- Work & School
- Personal Safety

These activities of daily living will feel easier and a greater sense of purpose will be established. It's a wonderful feeling knowing that new things are suddenly possible and tackling new challenges.

Next level mobility

- 1 Easy to integrate:**
Can be mounted on almost any power wheelchair.
- 2 Easy to use:**
Can be controlled using the chair's joystick, head control, sip-and-puff/head array systems or almost any other interface, in any combination.
- 3 Compact and low profile:**
Mounted on a wheelchair to minimize overall width, allowing all seat movements to ensure clearance for transfer and other equipment, as well as maximizing the arm's reach to access even the floor.
- 4 Energy efficient:**
Uses the power wheelchair battery to power the arm
- 5 Light and strong:**
Made of lightweight carbon fibre.
- 6 Versatile and smooth:**
Features a six-axis movement, corresponding to shoulder, elbow and wrist, allowing 16 movements in all to mimic a human arm and hand.

² World Health Organization. (2016). International Classification of Functioning, Disability and Health (ICF). Retrieved from: <http://www.who.int/classifications/icf/icfchecklist.pdf?ua=1>



KINOVA JACO® Prosthetic robotic arm

	3 fingers	2 fingers
Total weight	5.2 kg (11.46 lbs)	5.0 kg (11.02 lbs)
Payload (mid-range / continuous)	1.6 kg (3.53 lbs)	1.8 kg (3.96 lbs)
Payload (full-reach Peak / temporary)	1.3 kg (2.87 lbs)	1.8 kg (3.96 lbs)
Reach	90 cm (35.43 in)	
Materials	Links: Carbon fiber	Actuators: Aluminum
Maximum linear arm speed	20 cm/s (7.87 in/s)	
Power supply voltage	18 to 29 VDC	
Average power	Operating mode 25 W Standby mode 5W	
Peak power	100 W	
Water resistance	PX2 - Light rain resistant	
Recommended continuous operating temperature	-10 °C to 40 °C // 14°F to 104°F* May be used outside this temperature but for a limited time only.	