

A woman with dark hair, wearing a red and white plaid shirt, is seated in a wheelchair. She is using a black and white prosthetic right arm to hold a blue pen. The prosthetic arm is extended towards the right side of the frame. The background is white, and there is a large blue circular graphic element that frames the text and the woman's arm. The text is centered within this graphic.

IMPROVING QUALITY OF LIFE IN INDIVIDUALS

The logo for KINOVA, featuring the word "KINOVA" in a bold, black, sans-serif font. To the left of the text is a stylized blue circular icon consisting of a solid blue circle inside a larger, hollow blue circle.

KINOVA[®]



EMPOWERING HUMANITY THROUGH ROBOTICS

People living with upper mobility impairments have little or no use of their arms and hands and have usually been diagnosed with one of the following conditions:

- Muscular Dystrophy (MD)
- Spinal Muscular Atrophy (SMA)
- Tetraplegia
- Amyotrophic Lateral Sclerosis (ALS)
- Cerebral Palsy (CP)

ENABLING THE IMPOSSIBLE

Our robot arms allow these individuals to do the many “daily living” activities that promote **self-reliance, independence and comfort**—all things that contribute to their well-being. Without upper body mobility, these activities are impossible.

They now have the option to carry out these tasks on their own—making them less dependent on caregivers. Also, according to a 2011 study, the purchase price of a robotic arm is generally amortized in less than three years.¹

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.

DESIGNED TO EMPOWER PEOPLE

Kinova® robotic arms offer such a fundamental and life-changing improvement by helping users reach many objectives as defined by the *International Classification of Functioning, Disability and Health (ICF)*²—and much more.



NEXT LEVEL MOBILITY

- 1 EASY TO INSTALL**
Can be mounted on almost any power wheelchair.
- 2 EASY TO USE**
Controlled by the wheelchair system (such as joystick, head control or sip and puff/head array).
- 3 COMPACT AND LOW PROFILE**
Following the tilt movement of the seat, the positioning of the arm minimizes the chair's width and maximizes the arm's reach.
- 4 ENERGY EFFICIENT**
Power comes from the wheelchair accumulator.
- 5 LIGHT AND STRONG**
Made of lightweight carbon fiber.
- 6 VERSATILE AND SMOOTH**
Features a six-movement axis, corresponding to shoulder, elbow and wrist—for 16 movements in all, resembling a human arm.

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® ROBOT ARM SPECIFICATIONS

JACO²

		3 Fingers
Total weight		5.2 kg (11.46 lbs)
Payload capabilities	Mid-range continuous	1.6 kg (3.53 lbs)
	Full-reach peak/temporary	1.3 kg (2.87 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	5 W
Peak power		100 W
Water resistance		IPX2 - Light rain resistant
Operating temperature	Continuous	-10 °C to 40 °C (14 °F to 104 °F)
		May be used outside this temperature but for a limited time only.



MAKE THE WORLD
BETTER

At Kinova, our relentless quest for innovation and evolution comes from an appreciation of the amazing things humans and technology can achieve when they work together. This collaboration allows people to do more. For people with upper extremity impairment, the result is a major improvement in autonomy and well-being.

Contact us to learn more about our products.

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