

# Kinova® Jaco® INCREASED INDEPENDENCE

Kinova® Jaco® Assistive robot provides support for necessary and meaningful activities to individuals affected by a vast array of conditions including, but not limited to:

## SOLUTIONS FOR USERS

### Discover your independence

Users will experience newfound independence, increased safety and improved quality of life. The robotic arm will help maximize your abilities and decrease your reliance on family members and care providers, empowering you to function at a higher level both at home and in your community.

## SOLUTIONS FOR THERAPISTS

### Increase efficiency and quality of care

Whether you're a therapist, a home-care assistant or rehab specialist, you can provide the most up-to-date assistive tech for your clients to improve their quality of life and increase independence in activities of daily living. For you, this means spending your time providing increasingly focused treatment and helping your clients experience improved outcomes.

## 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.

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

Regardless of who you are, and the degree to which you require assistance, our robotic arm is adaptable to your needs and your environment.

## 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.**

# CHANGING LIVES SINCE 2006

Kinova® Jaco® Assistive robot offers users fundamental and life-changing improvements by helping achieve many objectives as defined by the International Classification of Functioning, Disability and Health (ICF)<sup>1</sup>

These activities of daily living will be easier to achieve and a greater sense of purpose will be established by the user. It's a wonderful feeling knowing that new things are suddenly possible.



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

## NEXT LEVEL MOBILITY

- Easy to integrate:**  
Can be mounted on almost any power wheelchair.
- Easy to use:**  
Can be controlled using the chair's joystick, head array, sip-and-puff, with many other types of accessible controls.
- 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.
- Energy efficient:**  
The arm is powered using the wheelchair's battery.
- Light and strong:**  
Made of lightweight carbon fibre.
- Versatile and smooth:**  
Features six-axis movement, corresponding to shoulder, elbow and wrist, allowing 16 movements in all to mimic the smoothness and versatility of a fully functioning human arm.

## Kinova® Jaco® Assistive robot

|                                              | 3 FINGERS                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------|
| Total weight                                 | 5.2 kg (11.46 lbs)                                                         |
| Payload                                      | 1.6 kg (3.53 lbs)<br>(mid-range / continuous)                              |
| Payload                                      | 1.3 kg (2.87 lbs)<br>(full-reach Peak / temporary)                         |
| Reach                                        | 90 cm (35.43 in)                                                           |
| Materials                                    | Links: Carbon fiber<br>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<br>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*<br>May be used outside this temperature |



## JACO BLUE

Universal Interface v3

Reach out and change the world with new control options

JACO BLUE is the hardware, software and firmware in the Universal Interface. But more importantly, it is the collection of accessible controls to which it connects, and which bring more of the world within reach.

|                                                                     | UNIVERSAL INTERFACE V3                          |
|---------------------------------------------------------------------|-------------------------------------------------|
| Ingress protection :                                                | IP24                                            |
| Weight:                                                             | 0.6kg                                           |
| Dimension:                                                          | 148x56x92mm                                     |
| Bluetooth:                                                          | Wireless & proportional jaco control*           |
| Digital db9:                                                        | Existing digital jaco control                   |
| Analog db9:                                                         | Proportional external joystick control*         |
| R-net direct:                                                       | Proportional r-net direct integration**         |
| Powered usb:                                                        | X-box adaptive & wireless controller*           |
| 6x 3,5mm inputs:                                                    | Common button input connectors                  |
| 2x 3,5mm outputs:                                                   | Proportional output for direct lift arm control |
| One sided connection layout: Optimized cable management at one side |                                                 |

\* more connections in progress      \*\*omni1 cjsm1 cjsm2 at launch omni2 in 2024