

ROBOT ARMS

JACO² 4-6 DOF

MICO² 4-6 DOF



KINOVA
ROBOTICS

SIMPLE, SEXY & SAFE

REDEFINING LIGHTWEIGHT ROBOT ARMS

Kinova's lightweight robot arms set the standard in service robotic manipulation. Light, compact and power efficient, these plug-and-play manipulators pave the way for brand new robotic applications.



SPECIFICATIONS

JACO²



	6 DOF	4 DOF
TOTAL WEIGHT	4.4 Kg	3.6 Kg
PAYLOAD	2.6 Kg (mid-range continuous) 2.2 Kg (full-reach peak/temporary)	4.4 Kg (mid-range continuous) 3.5 Kg (full-reach peak/temporary)
REACH	90 cm	75 cm
MATERIALS	Carbon fiber (links), Aluminum (actuators)	
JOINT RANGE (SOFTWARE LIMITATION)	±27.7 turns	
MAXIMUM LINEAR ARM SPEED	20 cm/s	
POWER SUPPLY VOLTAGE	18 to 29 VDC	
AVERAGE POWER	25 W (5W in STANDBY)	
PEAK POWER	100 W	
COMMUNICATION PROTOCOL	RS485	
COMMUNICATION CABLES	20 pins flat flex cable	
WATER RESISTANCE	IPX2	
OPERATING TEMPERATURE	-10 °C to 40 °C	



MICO²



	6 DOF	4 DOF
TOTAL WEIGHT	4.6 Kg	3.8 Kg
PAYLOAD	2.1 Kg (mid-range continuous) 1.5 Kg (full-reach peak/temporary)	5.2 Kg (mid-range continuous) 2.7 Kg (full-reach peak/temporary)
REACH	70 cm	55 cm
MATERIALS	Reinforced plastic (links), Aluminum (actuators)	
JOINT RANGE (SOFTWARE LIMITATION)	±27.7 turns	
MAXIMUM LINEAR ARM SPEED	20 cm/s	
POWER SUPPLY VOLTAGE	18 to 29 VDC	
AVERAGE POWER	25 W (5W in STANDBY)	
PEAK POWER	100 W	
COMMUNICATION PROTOCOL	RS485	
COMMUNICATION CABLES	20 pins flat flex cable	
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APPLICATIONS

MOBILE MANIPULATION

Kinova's robot arms are the perfect solution for integrating a manipulation dimension to your mobile platform. They are the ideal partners to assist or replace technicians and professionals for inspection or manipulation in harsh, confined, hazardous or manufacturing environments. Light and compact, the arm can be integrated with the majority of existing mobile platform models. Moreover, due to its low power consumption, the robot arm will not significantly reduce the autonomy of the platform.



LOGISTICS

Automating inspection/pick & place operations or working in collaboration with staff on the floor, Kinova's versatile robots have all the attributes needed to perform the various tasks leading to improving the quality and productivity of your facility.



MEDICAL

With their modular configuration and the low backlash of their actuators, Kinova's robot arms are the perfect helping arm for medical operations.



RESEARCH

If you require service robotic manipulation for a project, our robots and components are fully designated to answer all your requirements. Whatever your level in robotics, our flexible solutions can create an appropriate configuration for your project. Over 150 labs have adopted our robots for applications ranging from BCI control to humanoid manipulators.



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