



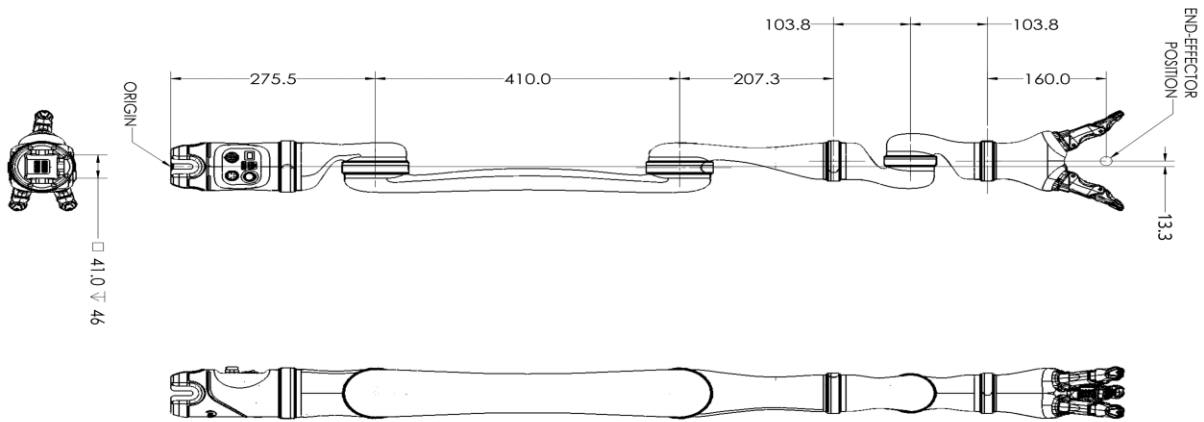
JACO²

Spherical 6 DOF

Technical specifications

KINOVA
ROBOTICS
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JACO² Spherical 6 DOF



GENERAL

TOTAL WEIGHT	4,4 Kg
MATERIALS	Carbon fiber (links), Aluminum (actuators)
PAYLOAD	2.6 Kg (mid-range continuous payload capabilities) 2.2 Kg (full-reach peak/temporary payload capabilities)
REACH	98.5 cm
JOINT RANGE AFTER START-UP (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
2 EXPANSION PINS ON COMMUNICATION BUS	
WATER RESISTANCE	IPX2
OPERATING TEMPERATURE	-10 °C to 40 °C expected

CONTROLLER

PORTS

<i>Joystick</i>	1 Mbps CANBUS
<i>Power supply</i>	18 to 29 VDC
<i>USB 2.0 (API)</i>	12 Mbps
<i>Ethernet</i>	100 Mbps

CONTROL SYSTEM FREQUENCY

100 Hz (High Level API)
500 Hz (Low Level API)

CPU

360 MHz

SDK

APIs	High and low level
Compatibility	Windows, Linux Ubuntu & ROS
Port	USB 2.0
Programming languages	C++

FORCE, CARTESIAN & ANGULAR CONTROL

DETAILED SPECIFICATIONS

ACTUATORS #1, #2 & #3	K-75+
ACTUATORS #4, #5 & #6	K-58



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