

Cobot C1 Technical Specifications

Technical Data

Number of axes	4 + Gripper (2)
Maximum Reach	81 cm
Weight	2.3 Kg
Payload	1.0 Kg
Mounting Position	Floor/Desired angle
Workspace	2.23 m ³

Link Lengths

Link 1 length	11 cm
Link 2 length	29 cm
Link 3 length	31 cm
Link 4 length	20 cm
Link 5 length	0 cm

Joint Axis Data

Joint 1	-180° to 180 °
Joint 2	-180° to 180 °
Joint 3	-135 ° to 165 °
Joint 4	-165 ° to 170 °
Joint 5	-180 ° to 180 °

Operating Conditions

Operating Temperature	-5°C to 40°C
Peak Current	20A
Voltage	24

Actuator Data

Controller	FOC
QDD Actuator	QDD A2 (3 in total)
Peak Actuator Torque	12 Nm



COBOT C1

6 DOF ROBOTIC ARM



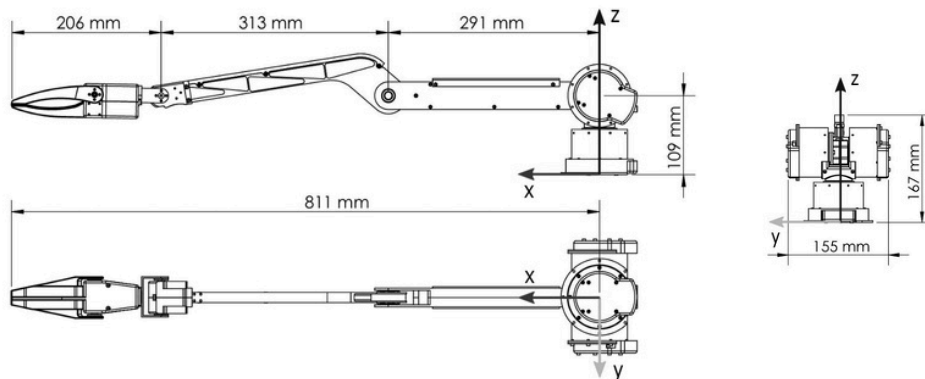
Cobot C1

Introduction and Features

6 DOF Robotic Arm for Educational Excellence
Empowering Future Engineers with Advanced Robotics

Empowering Education Through Robotics

At the forefront of educational innovation, our 6 DOF robotic arm is designed to provide hands-on learning in robotics and automation. Built using advanced Quasi-Direct Drive (QDD) actuators, the robotic arm ensures high precision and dynamic motion, making it the perfect tool for students and educators to explore robotics.



Key Features

- **6 Degrees of Freedom (DOF)**

Enable diverse movement, offering students the opportunity to learn complex maneuvers.

- **Quasi-Direct Drive (QDD) Actuator Technology**

This advanced actuator offers high torque density, reduced noise, and excellent force feedback, providing a realistic control experience.

- **Lightweight and Compact Design**

With a weight of only 2.5 kg and a payload capacity of 0.5 kg, this robotic arm is perfect for educational setups, balancing functionality with accessibility.

- **Plug-and-Play Integration**

Ready-to-use with popular simulation software like ROS1 (Robot Operating System) and Gazebo, ensuring easy integration into classroom settings and research labs.

- **Modular and Customizable**

The arm's modular structure allows for the attachment of different grippers and sensors, providing flexibility in learning and experimentation.

- **Applications in Education**

- **STEM Labs**

Ideal for hands-on teaching of robotics, mechanics, and control systems in universities.

- **Research & Development**

Enables students and researchers to experiment with automation and robotics technology in real-world applications.