



Quanser 2DOF Robot Arm

Two Servo Motor Bases connected with 4 connected beams forming an arm with 2 degrees of freedom. Students can learn about the operation of a 2-motor system by analysing features such as kinematics, inverse kinematics, and more. The kit includes all elements necessary to quickly start the station: amplifier, controller, Matlab or LabVIEW module as well as educational materials for students. The set may be further extended with a 2-axis pendulum.

Basic technical parameters:

- Base parameters:
 - High quality servo motor (6V, 1A, 6000 RPM)
 - Potentiometer for measuring the position ($\pm 5V$)
 - Quadrature encoder (4096 pulses / revolution)
 - Gears with the possibility of changing the gear ratio
 - Comprehensive educational materials compatible with NI LabVIEW and Matlab / Simulink included
 - Open architecture allows students to create customized control algorithms.
- Module parameters
 - Length of a single connecting beam: 127 mm
 - Single mass of the connecting beam: 0.065 kg