



Quanser Multi-DOF Torsion

The Torsion Module is a rotary torsional system that consists of an instrumented bearing block, which is mounted in a cubic aluminum frame. A shaft is free to spin inside the bearing block and its angle is measured using an encoder. The shaft can be fitted with either a torsional load or a flexible coupling. The assembly made of one Rotary Torsion module coupled to a Rotary Servo Base Unit constitutes one Degree of Freedom (1 DOF) torsional system. The Rotary Servo Base Unit lies on its side so...

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
 - Complete teaching materials compatible with NI LabVIEW and Matlab / Simulink included
 - Open architecture allows creating own control algorithms.

- Module parameters:
 - Dimensions: 210 x 130 x 130 mm
 - Disk weight: 0.0022 kg
 - Disk diameter: 38 mm
 - Flexible link stiffness: 1.0 Nm / rad