



Quanser 3 DOF Helicopter

The 3 DOF Helicopter experiment provides a bench top model of a Tandem rotor helicopter. It can be used to understand and develop control laws for a vehicle that has dynamics representative of a dual rotor rigid body helicopter, or any device with similar dynamics.

Basic technical parameters:

- Device mass: 6,2 kg
- Device height (ground to top of base): 45 cm
- Device length (counterweight to front propeller): 127 cm
- Helicopter body mass: 1,15 kg
- Helicopter body length: 49,8 cm
- Base dimensions (W × L): 17,5 cm x 17,5 cm
- Pitch force thrust constant: 0,22 N/V¹
- Propeller diameter: 20,3 cm
- Propeller pitch: 15,2 cm