

# SACSTOR

Satellite Attitude Control SimulaTOR



Frictionless & Torque  
Free Rotation



Effortless 3U/6U  
CubeSat Integration



Active 3-Axis  
Control

# HIL: 3-Axis Satellite Attitude Control Simulator



The most critical stage in space missions is the ability to test control algorithms on Earth with absolute precision. SACSTOR is a hardware-in-the-loop (HIL) simulation Platform designed to validate your satellite's Attitude Determination and Control Systems (ADCS) under the most challenging pre-launch scenarios. With its frictionless and torque-free structure, it brings the microgravity environment to your laboratory. Thanks to its high-precision actuator and sensor architecture, it allows you to test your algorithms with confidence in both academic research and industrial R&D processes.

## Technical Specification



Roll / Pitch / Yaw Rotation

15° / 15° / 360°



Pointing Accuracy

< 1°



Spherical Air Bearing Capacity

1600 N



ADCS Payload

~ 40 N



Actuators

4 x Reaction Wheels - Pyramid Conf.



Sensors

2 x IMU



Control Board

ATMEGA 2560 & ESP 32



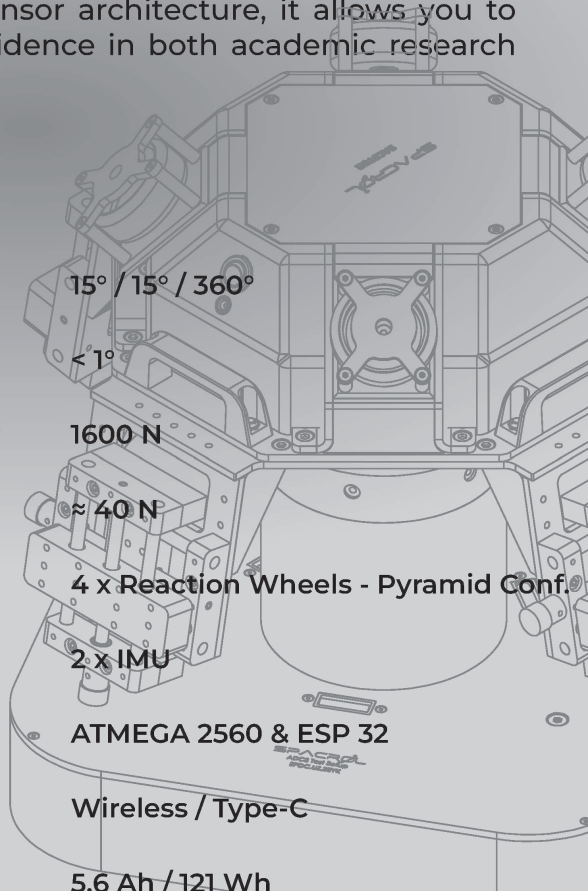
Communication

Wireless / Type-C



Capacity & Energy

5.6 Ah / 121 Wh



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