

SPHERICAL AIR BEARING FOR CUBESAT

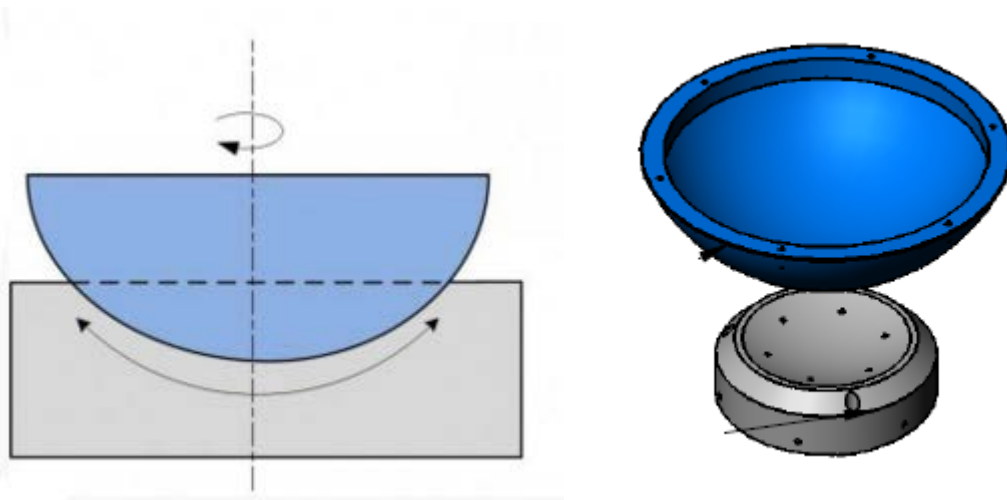
3U CubeSat $\pm 35^\circ$ Spherical Air Bearing, with optional pedestal.

Ideal to test and measure attitude control systems for CubeSat or small satellites.

Commonly used for zero-g satellite research, they have also find use in systems for precision chip bonding and optical alignment.

FEATURES

- Spherical air bearing which provides motion in all three rotary degrees of freedom: unrestrained rotation around the vertical Z axis, and $\pm 35^\circ$ tilt motion about the horizontal X and Y axes.
- The frictionless nature of the spherical air bearing partially simulates a zero-g environment, allowing the pitch, roll, and yaw control systems of the satellite to work as they would in space
- Center of Rotation stability
- Low Inertia
- Payload until 80 Kg
- Table Top and Floor Mount Pedestals Available



TECHNICAL SPECIFICATIONS

P/L Capacity
 Rotation about vertical axis
 Rotation about roll and pitch
 Air Supply Pressure

80 Kg
 360 deg
 ±35 deg
 60 psi

DIMENSIONS

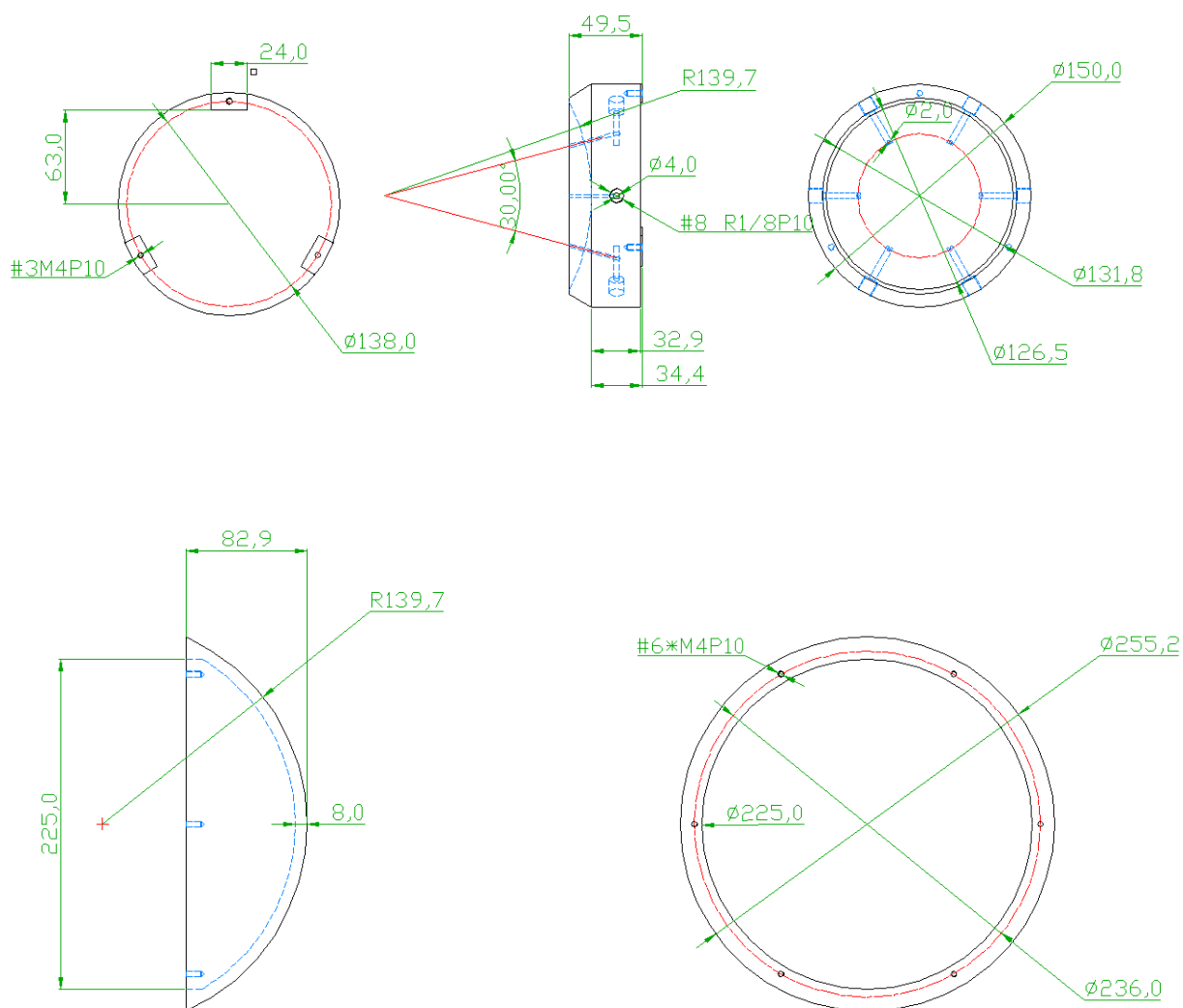


Figure 1 – Spherical Air Bearing and Base

All dimensions are in mm

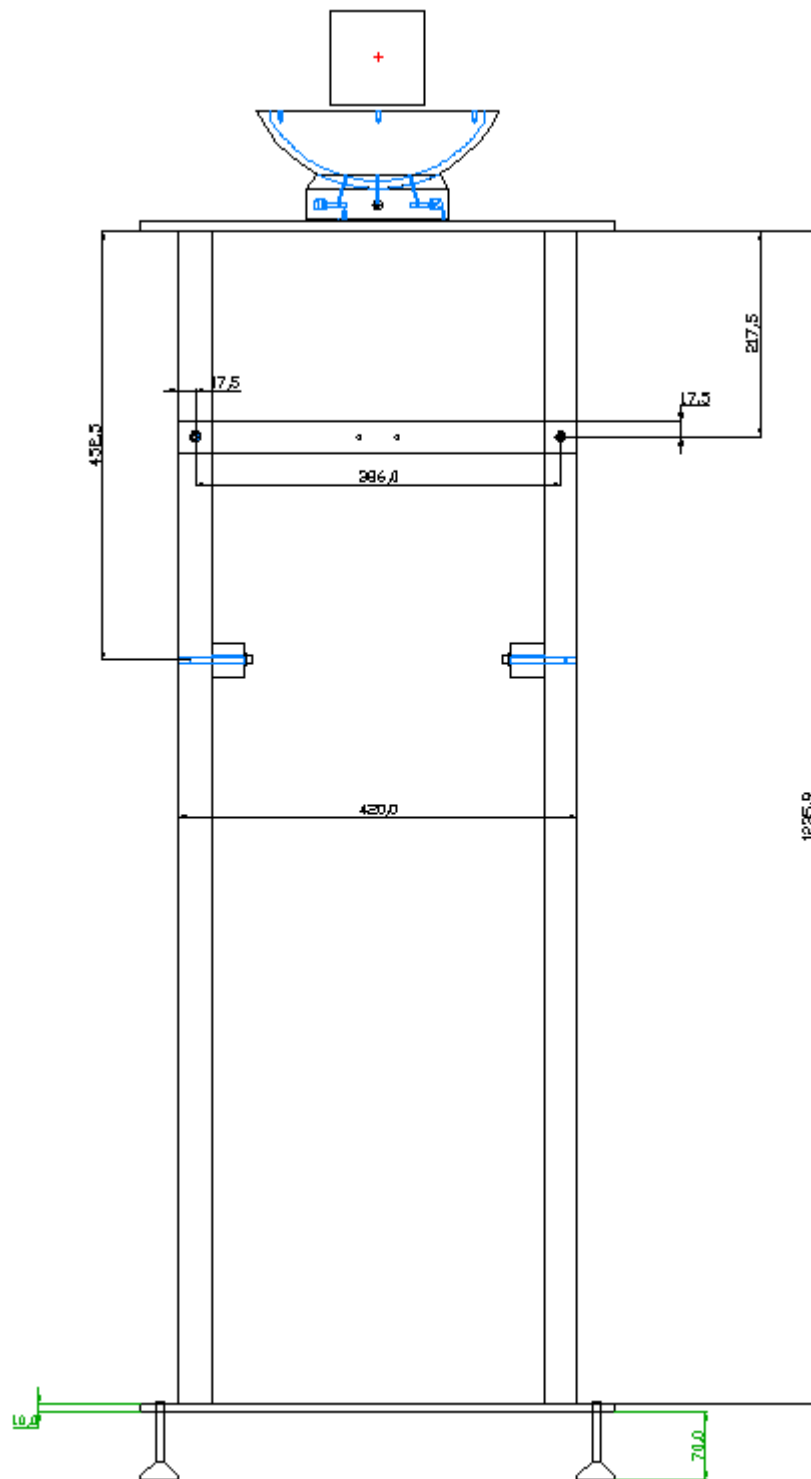


Figure 2 – Spherical Air Bearing with Pedestal and Payload Sample

All dimensions are in mm

PHOTOS



ORDERING INFORMATION

Air Bearing: SPAB17

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