



FACTS

- ▶ 2 degrees of freedom
- ▶ 10 Hz Frequency in both axes
- ▶ 0.05° accuracy
- ▶ 300 kg payload
- ▶ 300 mm actuator stroke
- ▶ IP Class 66: Water, dust and salt resistant



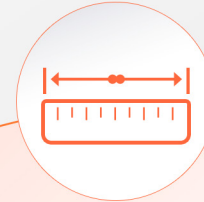
APPLICATIONS

- ▶ IMU integrated stabilization
- ▶ Roll and pitch motion realization
- ▶ Prototype tests
- ▶ Real-time data logging
- ▶ Component validation
- ▶ Vibration isolation



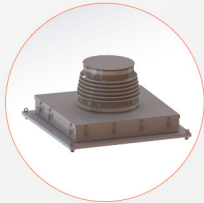
COMPATIBLE WITH

- ▶ Electro-optic systems
- ▶ Remote control weapon systems
- ▶ Radar systems
- ▶ Drones



DIMENSIONS

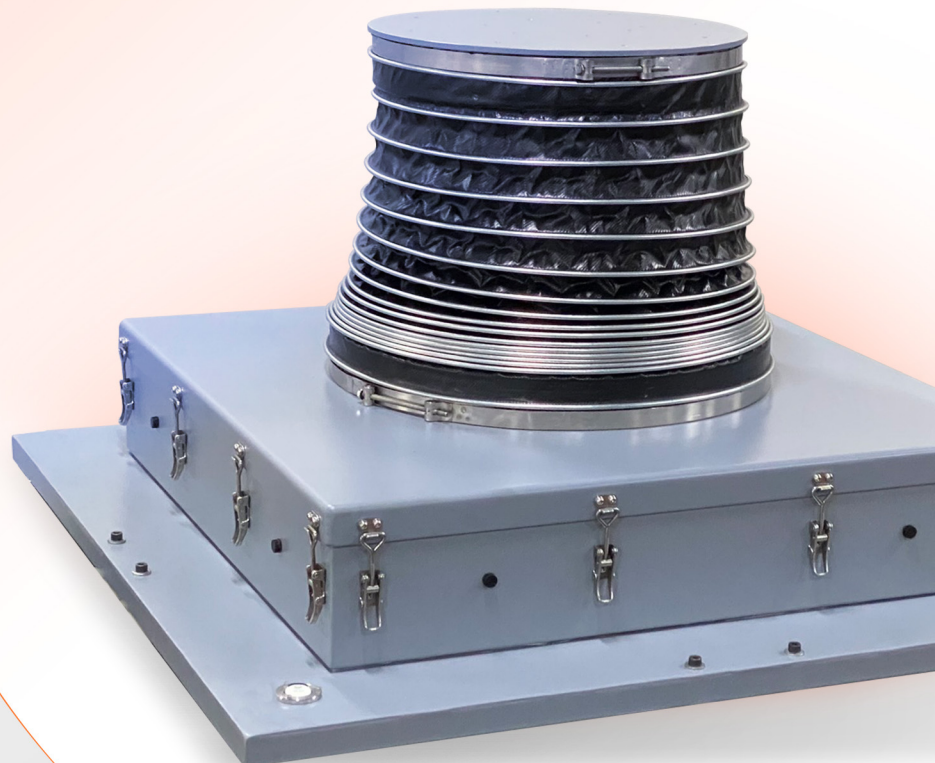
L1.2XW1XH0.9 m



PRODUCT LINE

STABILIZER150

STABILIZER300





TECHNICAL SPECIFICATIONS

Performance Specifications

- ▶ Gross Moving Load up to **300 kg**
- ▶ Actuator Stroke **300 mm**
- ▶ Center of Gravity Above Top Platform **0.5 m (Max)**
- ▶ Mass **230 kg**
- ▶ Footprint **1.2 x 1 x 0.9 m**

- | | Excursion | Velocity | Acceleration |
|--|------------------|-------------------------|----------------------------|
| ▶ Roll | $\pm 30^\circ$ | $\pm 50^\circ/\text{s}$ | $\pm 280^\circ/\text{s}^2$ |
| ▶ Pitch | $\pm 30^\circ$ | $\pm 30^\circ/\text{s}$ | $\pm 280^\circ/\text{s}^2$ |
| Operation Temperature -10 ... +50 | | | |
| Storage Temperature -20 ... +60 | | | |
| Power Supply 400VAC $\pm 10\%$, 3ph, 50/60Hz | | | |

- Moment of Inertia About**
- ▶ Surge **160 kg.m²**
 - ▶ Sway **160 kg.m²**
 - ▶ Heave **160 kg.m²**



HARDWARE COMPONENTS

- ▶ User friendly interface control (GUI)
- ▶ Hardware real-time control
- ▶ UDP based PC communication
- ▶ Joystick control in all axis
- ▶ Passive and active limitations
- ▶ Joystick Control



SOFTWARE CAPABILITY

- ▶ Stabilization control algorithm
- ▶ Disturbance rejection motion control
- ▶ IMU signal recording
- ▶ Real-time monitoring of system variables

USER FRIENDLY GUI

