

Multi-axial simultaneous (6 DOF) vibration tests.

Vibration table HyMAS (Heavy Multi-Axis Shaker).

Service description

- Experimental vibration investigation simultaneously over all six degrees of freedom (6 DOF)
- Tests for required safety certificates, e.g. environmental influences (EN 60068-3-3), seismic (IEEE 344, IEC 60980, RCC-E, IEEE 693) and others

Fields of application

- Simulation of earthquakes and transient events (gusts of wind, plane crashes on buildings)
- Vibration and shock tests
- Windmilling tests
- Certification of medical technology facilities (OSHPD listing)

Technical specifications

- Test item weight: max. 14,000 kg
- Frequency range: 0.5 Hz to 120 Hz
- Table dimensions outside / hole pattern (L x W): 4.1 m x 3.2 m / 3.0 m x 2.2 m
- Acceleration: vertical max. $\pm 80 \text{ m/s}^2$ || longitudinal max. $\pm 50 \text{ m/s}^2$ || lateral max. $\pm 50 \text{ m/s}^2$
- Path: vertical max. $\pm 75 \text{ mm}$ || longitudinal max. $\pm 125 \text{ mm}$ || lateral max. $\pm 125 \text{ mm}$
- Connection power: 700 l/min || 280 bar
- Measurement data acquisition: acceleration, paths, strains, temperature, digital inputs and outputs

Added value for our customers

- IABG is the only company in Europe to be listed with OSHPD and is therefore authorised to carry out certification processes for medical equipment



Reference customers/projects

- Manufacturers of power plant technology and medical technology, power plant operators, OEMs and suppliers from the automotive, aviation and rail sectors