

Multi-axial simultaneous vibration tests with climate simulations.

Vibration table LiMAS (Light Multi-Axis Shaker).

Service description

- Simultaneous vibration investigation over all six degrees of freedom in combination, optionally climatic environmental simulation
- Tests for required safety certificates, e.g. environmental influences (EN 60068-3-3), seismic (IEEE 344, IEC 60980, RCC-E, IEEE 693) and others

Technical specifications

- Test item weight: max. 1,000 kg
- Frequency range: 0.5 Hz to 200 Hz
- Table dimensions (L x W): 2.3 m x 2 m
- Acceleration (600 kg / 1,000 kg): vertical max. $\pm 130 \text{ m/s}^2$ / $\pm 100 \text{ m/s}^2$ || longitudinal max. $\pm 80 \text{ m/s}^2$ / $\pm 70 \text{ m/s}^2$ || lateral max. $\pm 105 \text{ m/s}^2$ / $\pm 70 \text{ m/s}^2$
- Path/angle: vertical -160 mm to +135 mm / roll max. $\pm 7.4^\circ$ || longitudinal max. $\pm 100 \text{ mm}$ / pitch -8.2° to $+7.0^\circ$ || lateral max. $\pm 115 \text{ mm}$ / yaw max. $\pm 5.2^\circ$
- Environmental conditions: $-40 \text{ }^\circ\text{C}$ to $+95 \text{ }^\circ\text{C}$ || max. 95 % relative humidity
- Simultaneous measurement data acquisition / evaluation (64 measurement

Added value for our customers

- Simultaneous tests over all six degrees of freedom required safety certificates
- IABG is the only company in Europe authorised to carry out OSHPD certification processes for medical technology installations

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)



Reference customers/projects

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