Vibration Testing Facilities for Your Space Systems

High level equipment and expertise to perform your vibration check programs in ultra-clean environment
Vibration Test Facilities

CSL runs two high capacity shakers that are operated in a clean environment (from ISO 7 to ISO 5 upon request).

Purposes:
- qualify lightweight and heavyweight sub-systems
- simulation of launch induced vibration
- dynamical signature
- Interface force measurement
- fatigue test

Global characteristics:
- 3 axes shakers (sequentially)
- 72 acquisition channels
- M+P control system with automatic notching
- Sine, random and shock inputs.

Doing the vibration and thermal vacuum qualification of an optical instrument at a same place is a unique advantage for any customer.

The acquisition and the control are performed with a M+P International system with automatic notching and with 72 acquisition channels combined with a wide selection of accelerometers.

Contact Person: Ch. Grodent
cgrodent@ulg.ac.be
+32(0)4/382.46.05

Shaker 4522 LX:
- Slip Table: 1500 X 1500 mm²
- Head expander: 1500 mm diam
- Max sine force: 200 kN
- Max random force: 160 kN RMS
- Bandwidth: 5-2000 Hz

Shaker 2016 U:
- Slip Table: 900 X 900 mm²
- Head expander: 900 mm diam
- Max sine force: 88 kN
- Max random force: 72 kN RMS
- Bandwidth: 5-2000 Hz