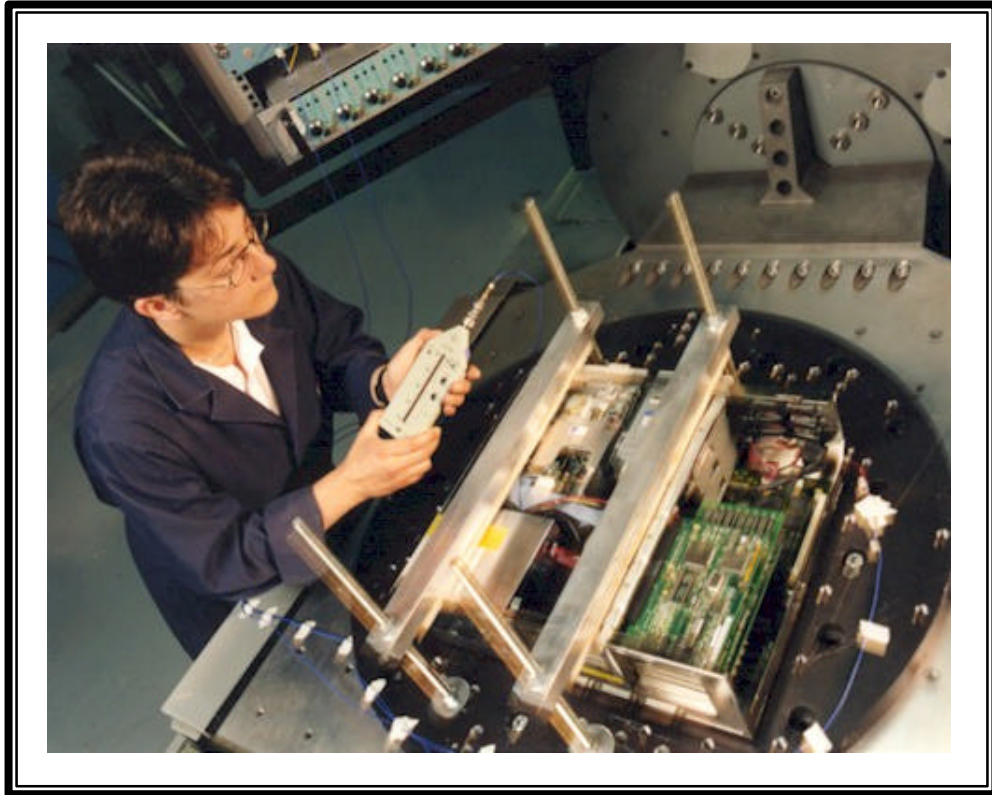


VIBRATION AND SHOCK TESTS

Do you need to have a product tested in the development or prototype stage?

Do you need qualification or pre-certification tests done?

Our professionals are here to help!



Types of Tests

➤ Vibration

- sine
- random
- complex
 - SOR (Sine on Random)
 - ROR (Random on Random)
 - SROR (Sine and Random on Random)

➤ Shock

- halfsine classical, rectangular, sawtooth, trapezoidal
- spectral response (SRS: Shock Response Spectrum)

➤ Transportation

- vibration and shock
- drop and incline impact
- bounce
- impact
- compression

Tested to these standards:

IEC 68-2-, 255-21-, 571...
(International standards)

MIL-STD-810E, MIL-STD-202F,
MIL-STD-167...
(Military standards)

ASTM (Materials)

SAE (Ground vehicles)

RTCA/DO-160C
(Aircraft)

SN-62.1008d (Hydro-
Québec)

Bellcore (GR-63-CORE...)

ETS-300 019
(Telecommunications)

NSTA (Transportation)

EQUIPMENT

Vibration system

A10,000-pound-force Unholtz-Dickie Induct-a-Ring electrodynamic vibrator making it possible to conduct vibration tests in the three axes (maximum movement of 1 inch).

- Horizontal table of 36 inches by 36 inches mounted on a hydraulic cushion.
- Maximum payload of 3000 lb. Overhead clearance of 20 feet.
- The vibrator and horizontal table are on a seismic base.
- An SD2552B controller equipped with 8 measurement and control channels.

In addition, the following equipment is available for further vibration tests:

- Vertical uniaxial hydraulic vibrator with a 20,000-pound-force payload.
- Table with 36 square feet of usable area (6 feet x 6 feet). This equipment is used for low frequency vibration tests (0 Hz to 150 Hz) and packaging tests.
- Maximum 6-inch movement.
- Other less powerful vibrators from 25 to 110 pounds-force.

FIELDS OF ACTIVITY

- Transportation (air, ground, water, rail, off-road)
- Telecommunications
- Electric/electronic systems
- Electromechanics
- Mechanics
- Industrial equipment
- Aeronautics
- Aerospace

RESOURCE PERSON

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