



Orbital Test Services, LLC

High-G Shock Table

A cost-effective solution to evaluate hardware survivability

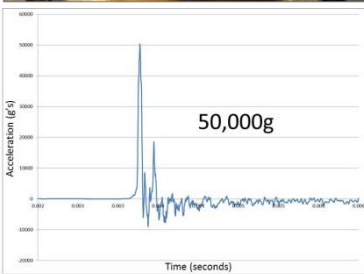
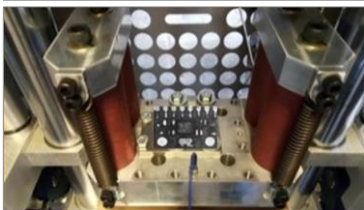
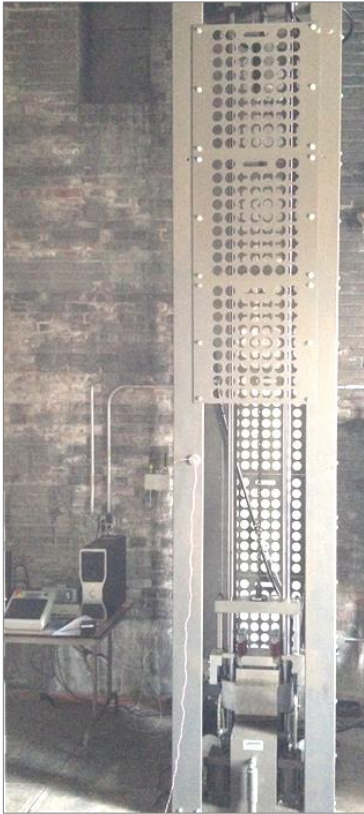
Mechanical Shock Test System

Orbital Test Services, LLC (OTS) utilizes a customized high-g shock tower (top left image) equipped with a Dual Mass Shock Amplifier (middle left image) that can accelerate test articles up to 120 ft/sec (36.6 m/sec) before impact. This test equipment allows for a variety of programs for half-sine shock pulses (bottom left image) up to **100,000g** on components of multiple sizes, weights and geometries.

Our specialized shock system enables project managers, engineers and scientists to perform comprehensive testing and demonstrate survivability of prototype devices and components in relevant high-g environments at a fraction of the cost of actual field-demonstrations. OTS supports both government and industry partners to reduce the risk of prototype development before investing the time and resources for live field testing.

System Features

- Multiple size and weight samples
- Accelerated or free fall
- Target acceleration
- Target drop height
- 12in specimen height
- 9in x 9in specimen mounting area
- Velocity change of up to 120 ft/sec
- Higher acceleration shock pulses
- Shorter duration half-sine shock pulses



CONTACT US FOR A QUOTE

Phone: 216-649-0378

Website: OTSshocktesting.com

E-mail: OTS@orbitalresearch.com

Accelerated (High Speed) Testing Options

Test Area (in ²)	Max. Specimen Height (in)	Max. Specimen Weight (lbs)	Maximum Shock (g)	Shock Duration* (ms)
9 x 9	12	250	10,000	0.2/0.3/0.5/1.0
4.5 x 6	10	5	100,000	0.1/0.2
Thermal Conditioning			Lower Temp	Upper Temp
			-94°F / -70°C	392°F / 200°C

*Shock Duration is programmable to customer specifications.

Customer Benefits

Our expert staff works closely with customers to devise a custom test plan which includes:

- Secure mounting of specimens in existing or customized testing fixtures.
- Accurate high-g shocks (in a single axis) for a controlled, custom shock profile.
- Programmable shock durations to meet testing parameters and product specifications.
- Confidential and secure testing environment to protect customer's proprietary information.
- Quick and affordable test results in a timely manner to meet any R&D schedule and budget.

Industry and Military Standards

ANSI/EIA 364-32G	MIL-STD 202 Method 107	JESD22 A104D
MIL-STD 770 Method 1051	MIL-STD 810 Methods 501-3	MIL-STD 883 Method 1010

