

ENHANCED DYNAMICS TESTING FACILITY

**Innovation.
Integrity.
Dependability.**



Shake, rattle and roll! DTB is well equipped to handle all that and any other dynamic response. All vibrations and impulses are not alike. Per your product's requirements, DTB staff can either reference industry standards or design a unique vibration or shock test profile.

- Vibration Testing
- Seismic Vibration Testing
- Classic Shock Testing
- Pyrotechnic Shock Testing
- Gun Fire Vibration Testing
- Hammer Shock Testing
- Combined Environments Vibration Testing
- Acceleration Testing
- Acoustic Noise Testing
- Explosive Blast Shock Testing

Let our engineers assist you in evaluating your product's capabilities by satisfying all your testing needs under one roof.

www.dtb.com



Product Life Cycle Support Services
Serving Military and Commercial Markets
Since 1950



ISO 9001:2008 and AS9100C
Registered



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Visit our web site at: www.dtb.com

* Please visit www.dtb.com for testing covered under our scopes of accreditation.

Some of our vibration and shock testing facilities include:

- **16 Electrodynamic vibration facilities to provide up to 55,000 force-pounds in practically any type of vibration testing environment.**
- **Two large Electrodynamic vibration facilities providing ± 3 inches of displacement and power to provide 55,000 force-pounds for vibration testing.**
- **Our T5500-3, which provides higher force and displacement levels, compared to the traditional machines.**
- **Light-weight and Medium-weight MIL-S-901 shock testing machines.**
- **Free Fall and pneumatic shock machines.**
- **Pyrotechnic Shock Testing Equipment.**
- **Hydraulic vibration facilities ± 5 inches of displacement. (6ft. x 6ft. vertical table; 6ft. x 9ft. horizontal table)**

Vibration Testing can help ensure that your new design will survive its intended environment. Submitting your product to vibration testing pays for itself by reducing field return costs through improved product reliability.

Classical Shock Testing is accomplished using many facilities here at DTB. The typical shock testing event can be performed on our Unholtz-Dickie T-4000 and T-1000 vibration testing systems. For tests that require higher levels or longer duration, DTB has additional mechanical shock testing machines.

Pyrotechnic Shock Testing. DTB's Shock Testing group has developed and refined the ringing plate method of producing repeatable Shock Response Spectrums (SRS) to over 20,000 Gs. The shock testing facility can produce this shock spectrum in the 100 to 10,000 Hz frequency range.

Hammer Shock Testing. DTB has light-weight and medium-weight hammer shock testing facilities, which are both Navy certified and approved. These shock testing facilities are totally capable of performing MIL-S-901 test requirements.

Combined Environments Testing. We own multiple facilities, combining temperature/humidity chambers with electrodynamic vibration testing facilities. The chambers have rapid rates of temperature change and the vibration testing facilities 18,000 force-pound shakers with frequencies up to 3,000 Hz. Additionally, we have two facilities that provide temperature/humidity/altitude test conditions.

Acceleration Testing. DTB has two centrifuges to meet acceleration requirements of MIL-STD-810, MIL-STD-202 and other specifications. We operate a 12 meter (40ft) centrifuge that accommodates payloads of up to 680 kg (1500 lbs) and reaches 300 G's.

Acoustic Noise Testing is one of many tests that DTB can accomplish for you. Whether the noise is structure borne noise or airborne, we can handle your requirements.

A World of Engineering and Testing Under One Roof™

**DAYTON T. BROWN, INC.
ENGINEERING & TEST DIVISION**



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