

Cartridge & Propellant Actuated Devices (CADs & PADs)



Precision Testing for Mission-Critical Performance

For over 75 years, Dayton T. Brown, Inc. has delivered advanced armament, munitions, and ordnance release testing solutions for the aerospace, defense, military, and government sectors, providing reliable data, responsive support, and proven expertise for mission-critical programs.

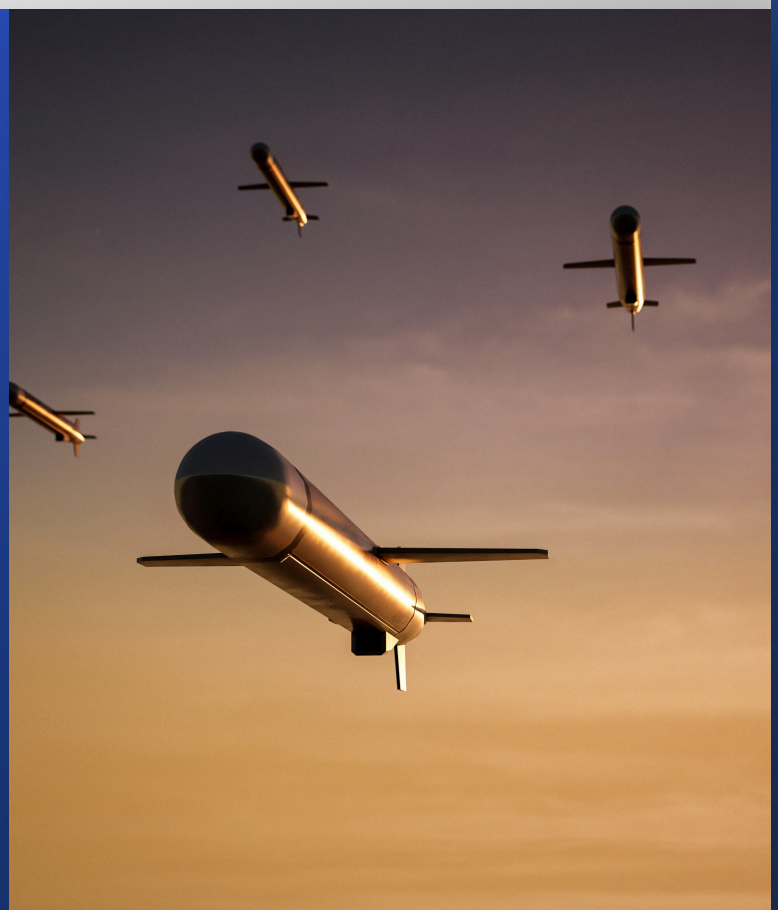
Ordnance Release Testing

Validate safe, accurate, and repeatable payload delivery for modern and legacy systems.

- Bomb rack (BRU) qualification testing
- Missile launcher qualification testing
- CAD/PAD and cartridge testing (can support up to 1.3 as needed)
- BRU small parts testing
- High speed lanyard quick-release connector testing
- Custom investigative, first article and production lot testing

Testing Solutions

- Advanced data acquisition with comprehensive and real-time data collection
- Customizable firing pits and support systems
- Full range of environmental, dynamic, and structural testing
- High speed video and customizable advanced instrumentation available
- Engineering design, analysis and support available



Testing Standards & Compliance

DTB supports testing to rigorous military and industry standards including:

- | | |
|----------------|---------------|
| • MIL-STD-2088 | • MIL-STD-810 |
| • MIL-T-7743 | • STANAG 4569 |
| • MIL-STD-464 | • RTCA/DO-160 |
| • MIL-A-8591 | |



Advanced Testing for Extreme Conditions

DTB replicates the harsh environmental and operational conditions mission-critical systems face in the field, from shock, vibration, and windblast simulation to temperature, humidity, corrosion, structural fatigue, and EMI/EMC exposure.

Supported by advanced instrumentation, real-time analytics, and customized engineering support, DTB delivers the precise performance insight needed to validate durability, survivability, and qualification readiness for complex defense systems.

WHY DTB?



75+ Years Experience

Supporting defense, aerospace, and military programs since 1950.



End-to-End Testing

From qualification and environmental simulation to failure analysis and validation.



Custom Engineered Solutions

Specialized fixtures, tailored test plans, and program-specific support.



Fast, Responsive Execution

Flexible scheduling and integrated engineering support to keep programs moving.



300,000 Sq Ft of Testing Capabilities

A world of engineering & testing under one roof.



Trusted Defense Partnerships

Supporting the DoW, DoE, OEMs, and military organizations worldwide.

Need Armament & Munitions Testing?

When reliability, precision, and mission readiness matter, DTB delivers testing solutions you can trust.



Contact DTB

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