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- Seat Belt Systems
- · Navigation Systems
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- Display Systems
- Anti-theft Systems
- · Climate Controls
- Air Bag Modules
- · Pressure Sensors
- Starter Motors
- Crank Position Sensors
- Collision Avoidance
- Temperature Sensors

- Crash Sensors
- Engine Controls
- Power Antennas
- Wire Harnesses and Connectors
- Lamps
- · Active Suspension Systems
- Switches
- Mirror Systems
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- · Motor Drives
- Transmission Controls
- ABS Components and Controls

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Dayton T. Brown, Inc. offers a variety of product life cycle support services, including testing, engineering, publications, and logistics. For over 65 years, DTB has supported military and commercial enterprises around the world.

DTB's 32-acre engineering and technical campus houses an accredited testing laboratory with diverse testing capabilities, such as Environmental, Dynamic, Electrical, Structural, etc., as well as manufacturing and research facilities. These resources are well-staffed by subject matter experts, engineers, technicians, logisticians, technical authors, programmers, and seasoned project managers to blend the talents best suited to answer client requirements.

DTB can guide your project from development to delivery of publications and information systems compliant with a variety of specifications. We pride ourselves on sustaining long-term relationships with a diverse portfolio of commercial and government customers by thoroughly understanding and meeting their requirements for present and future products and services.

Whether engineering a product from infancy, prototyping for performance-testing in simulated environments, modeling maintenance timelines, or developing manuals, DTB is the time-tested and reliable source for results. We will listen, expertly assess your needs, and offer strategies that get the job done, based on sound planning, experience, and innovation.

Shock and Vibration Testing

- Acceleration
- Acoustic Noise
- Combined Environments Vibration
- CIA SET Shock Towers
- Pyrotechnic Shock
- LWHS and MWHS Facilities
- Random, Sine, etc.
- Seismic Vibration
- · Transportation and Packaging Shock/Vibration
- Unholtz-Dickie Electrodynamic Facilities; 55.500 Ft. Lbs. to 24.000 Ft. Lbs.

EMI/EMC and **Electrical Testing**

- Electrical MIL-STD-1399
- Electromagnetic Pulse (EMP)
- Electrostatic Discharge (ESD)
- · Radiated and Conducted Emissions
- Magnetic Field Emissions and Immunity
- Power Quality
- Radiated, Conducted, and Inducted Susceptibility
- · Shielding Effectiveness
- Tempest

Structural and Fatigue Testing

- Composite Material Testing
- Coupon Testing
- · Damage Tolerance Analysis
- Flight Test Support
- Fatique
- Fatigue Life Prediction
- Hydraulic Pressure Testing
- Instrumentation and Data Acquisition
- Load Development
- Material Testing
- Static
- · Strain Gauge Services

Safety and Survival Testing

- Air Crew Equipment Validation
- Deployment Performance Evaluation
- · Life Support Systems
- Optics and Laser Eye Protection
- Pneumatics
- Windblast Testing

Ballistics Testing

- 100-Meter Indoor Firing Range
- Accelerated Life Testing
- Ballistics Testing, Including Weapons, Ammo, Armor, and Vests
- Failure and Materials Analysis
- Handcuff Testing per NIJ 0307.01
- Mechanical and Electrical Armament Equipment
- Structural and "Up-Armor" Testing
- Transparent Armor per ATPD 2352
- Nondestructive Testing
- Weapons Development Testing
- · Proof Testing

Rail/Transit Engineering and Testing Services

- AAR
- AREMA 11.5.1
- Accepted by NYCT
- Control Plans
- EN50121
- · EMI/EMC Site Surveys
- MIL-STD-810
- · Computer Based Data Acquisition System
- Full Vehicle Qualification/Compliance Testing
- · Vibration/Shock/Acoustic Surveys
- MIL-STD-461
- NYCT-1N 17S
- NYCT-CETP
- PTC/ATC/CBTC/SSI
- · Track Circuit Testing
- · Wayside Systems

Environmental Simulation Testing

- Altitude
- · Combined Environments
- Temperature / Altitude / Humidity
- Explosive Atmosphere
- · Explosive and Rapid Decompression
- Fluid Compatibility
- Fungus
- · High/Low Temperature
- Humidity
- Icing/Freezing Rain
- · Sand and Dust
- Solar Radiation
- SO₂ Testing
- Thermal Vacuum
- Thermal Shock · Wind and Rain Exposure

Engineering and Fabrication Services

- · Alternate Source Identification
- · CAD/CAE Capabilities
- · Corrosion Investigations
- Dimensional / CMM Inspection
- · Failure Analysis
- · Kinematic Studies
- · Metallurgical Services
- Nondestructive Testing
- · Prototype Design and Fabrication
- CNC Fabrication
- Product Improvement and Validation
- · Quality Audits
- Rapid Prototyping
- Reverse/Re-Engineering
- Reliability/Maintainability Modeling
- Site Surveys
- Stress Analysis
- · Thermal Modeling
- Test Facility Design and Development
- Test Plan/Procedure Development
- · Vendor Qualification

Armament and Munitions Testing

- · Bomb Rack Cartridge Testing
- · Bomb Rack Qualification
- Flight Test Support · Missile Qualification

Life Cycle Testing

- · Accelerated Life Testing
- Life Cycle with Environmental Exposure

Optical Testing

- Deviation Analysis
- Diffuse Transmittance Distortion Analysis
- Haze
- Illuminance
- Laser Power
- Luminous Transmittance
- Luminous Intensity
- Luminance
- Neodymium Laser
- Spectrophotometry
- Spherical and Cylindrical Power Vertical/Horizontal Prismatic Deviation

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

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



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