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.

> **Engineering and Fabrication Services** Alternate Source Identification

CAD/CAE Capabilities

Failure Analysis

Kinematic Studies

CNC Fabrication

Rapid Prototyping

Reverse/Re-Engineering

· Quality Audits

Site Surveys

Stress Analysis

Thermal Modeling

Vendor Qualification

Flight Test Support

Missile Qualification

Deviation Analysis

Distortion Analysis

Luminous Intensity

Neodymium Laser

Spectrophotometry

Spherical and Cylindrical Power

Vertical/Horizontal Prismatic Deviation

PHONE: (631) 589-6300

FAX: (631) 589-3648

Diffuse Transmittance

Luminous Transmittance

Life Cycle Testing

Optical Testing

Haze

Illuminance

Laser Power

Luminance

Reflectance

Armament and Munitions Testing

Bomb Rack Qualification

Accelerated Life Testing

Bomb Rack Cartridge Testing

Metallurgical Services

Nondestructive Testing

Prototype Design and Fabrication

Product Improvement and Validation

Reliability/Maintainability Modeling

· Test Facility Design and Development

· Life Cycle with Environmental Exposure

Test Plan/Procedure Development

 Corrosion Investigations Dimensional / CMM Inspection

Shock and Vibration Testing

- Acceleration
- Acoustic Noise Combined Environments Vibration
- CIA SET Shock Towers
- Inclination
- Pyrotechnic Shock
- LWHS and MWHS Facilities
- Random, Sine, etc.
- Seismic Vibration
- Transportation and Packaging Shock/Vibration
- Unholtz-Dickie Electrodynamic Facilities; 55 500 Et 1 bs to 24 000 Et 1 bs

EMI/EMC and Electrical Testing

- Electrical MIL-STD-1399
- · Electromagnetic Pulse (EMP)
- Electrostatic Discharge (ESD)
- Badiated and Conducted Emissions
- Liahtnina
- · 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
- Fatigue
- 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

DAYTON T. BROWN, INC.

ENGINEERING & TEST DIVISION

- Pneumatics
- Windblast Testing



- 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
- TOPS

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 UMTA
- · Wayside Systems

Environmental Simulation Testing

- Altitude
- Temperature / Altitude / Humidity
- Fluid Compatibility

- Icing/Freezing Rain
- Salt Fog
- Sand and Dust

 Thermal Vacuum Thermal Shock

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

- Solar Badiation
- SO₂ Testing

· Wind and Rain Exposure

- Combined Environments
- Explosive Atmosphere
- · Explosive and Rapid Decompression
- Eungus High/Low Temperature
- Humidity

A World of Engineering and Testing Under One RoofTM

DAYTON T. BROWNING

www.dtb.com

MULTI-PLATFORM **ROTORCRAFT TESTING**

Innovation. Integrity. Dependability.



Flight Controls... Rotor System... Airframe... Drive System... Qualification Testing

1st Article Testing... Production Lot Testing... Alternative Source Testing...

Fleet Surveillance Testing... Overhaul/Repair Testing... Life Extension Testing...

- Engineering and Analysis
- Failure Analysis
- Inspection Laboratory

Alternate Source Qualification Testing

Instrumentation and Data Aguisition

Design Engineering, Fabrication

DAYTONT. BROWNING.

A World of Engineering and Testing

Under One Roof^{TI}

ISO 9001:2015 and AS9100D Registered

1195 Church Street, Bohemia, NY 11716-5014 USA Please direct all inquiries to: 1-800-232-6300 · email test@dtb.com Visit our web site at: www.dtb.com

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





INDEPENDENT, RESPONSIVE QUALIFICATION TESTING



- Data Acquisition During Environmental Exposure



- Reverse/Reengineering Programs
- Life Extension Programs
- Fatigue Analysis
- Logistic Support Analysis and Documentation











• Complete Inventory of Dimensional Measurement Equipment

