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 TowersInclination
- 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
- Lightning
- · 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 EvaluationLife 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
- Handouff Testing per NLI 0307 01
- · Mechanical and Electrical Armament Equipment
- Structural and "Up-Armor" Testing
- Transparent Armor per ATPD 2352
- Nondestructive Testing
- Weapons Development Testing
- Proof TestingTOPS

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/Chapte/Appurity Symposium
- Vibration/Shock/Acoustic Surveys
- MIL-STD-461
- NYCT-1N. 17S
- NYCT-CETP
- PTC/ATC/CBTC/SSITrack Circuit Testing
- UMTA
- Wayside Systems

Environmental Simulation Testing

- Altitude
- · Combined Environments
- Temperature / Altitude / Humidity
- Explosive Atmosphere
- Explosive and Rapid Decompression
- Fluid Compatibility
- Fungus
- High/Low TemperatureHumidity
- Humidity
- Icing/Freezing Rain
- Salt Fog
 Sand and Dust
- Sand and Dus
 Salar Radiation
- SO₂ Testing

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

Thermal Shock

Engineering and Fabrication Services • Alternate Source Identification

- Alternate Source Iden
 CAD/CAE Capabilities
- CAD/CAE Capabilities
 Corrosion Investigations
- Dimensional / CMM Inspection
- Failure AnalysisKinematic Studies
- Metallurgical Services
- Nondestructive TestingPrototype 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 SupportMissile Qualification

Life Cycle Testing

- · Accelerated Life Testing
- Life Cycle with Environmental Exposure

Optical Testing

- Deviation Analysis
- · Diffuse Transmittance
- Distortion Analysis
- HazeIlluminance
- Laser PowerLuminous Transmittance
- Luminous Intensity
- Luminance
- Neodymium LaserReflectance
- Spectrophotometry
- Spherical and Cylindrical PowerVertical/Horizontal Prismatic Deviation

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ENGINEERING & TEST DIVISION



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- Alternate Source Qualification Testing
- Design Engineering, FabricationInstrumentation and Data Aquisition

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- Engineering and AnalysisFailure Analysis
- Inspection Laboratory

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ISO 9001:2015 and AS9100D Registered

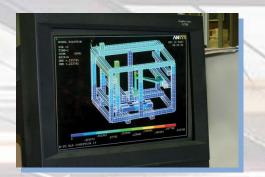


1195 Church Street, Bohemia, NY 11716-5014 USA
Please direct all inquiries to: 1-800-232-6300 • email test@dtb.com
Visit our web site at: www.dtb.com



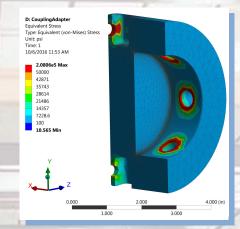
INDEPENDENT, RESPONSIVE QUALIFICATION TESTING





Alternate Source Qualification Testing:

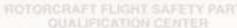
- Two (2) Specimens Required
- Compare to OEM Test Results
- AMCOM Approved Test Plans Available
- AMCOM Validated Test Setups Available
- Over 40 Fixtures Available for Part Qualification



Engineering and Analysis:

- Loads Development
- Finite Element Analysis (FEA)
- Specification Development
- Design Improvements
- Test Plan/Procedure Development
- Reliability and Maintainability Analysis
- Reverse/Reengineering Programs
- Life Extension Programs
- Fatigue Analysis
- Logistic Support Analysis and Documentation











Design Engineering, Fabrication:

- Structural Fixture Design
- Mechanical Systems Design
- 2D and 3D Computer Aided Design
- N + 1 Aircraft Interfaces
- Complete Welding and Machining Capabilities
- Aircraft Assembly per Specification
- Automated and Manual Test Facility Design



Failure Analysis:

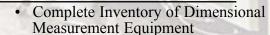
- Scanning Electron Microscope (SEM)
- Optical Microscopy
- Metallography
- Digital Image Capturing







- Leitz and Starrett Coordinate Measuring Machines (CMM)
- Hardness
- Liquid Penetrant
- Magnetic Particle



Coating Evaluation



Instrumentation and Data Acquisition:

- Strain Gauging
- Crack Wires
- Deflection Measurements
- Load Measurements
- Servo Controlled Fatigue and Static Load Application
- Automated Real Time Data Acquisition to 100 Channels
- Electrical/Electronic Parameter Acquisition
- Data Acquisition During Environmental Exposure

