

Gulfstream ■

Operators & Suppliers Conference 2022



We're There.



dtb.com



FOR OVER 70 YEARS

Dayton T. Brown, Inc. (DTB) has been synonymous with the pursuit of excellence and customer service for over 70 years. As a leader in the fields of testing, engineering, logistics, technical publications, and military mission systems, DTB has gained respect and recognition from civil aviation, government agencies, and militaries around the world. The Company was founded in 1950 and is headquartered on 32 acres in Bohemia, NY. Today, the Company is composed of three divisions, whose operations are widely diversified yet complement one another.

TECHNICAL PUBLICATIONS

- Technical Authoring
 - Technical Illustrating
 - 3D Modeling
 - Data (Text & Graphics) Conversion
 - IETM / IETP Development
 - DTD & Style Sheet Development
 - Standards Support
 - ATA 100, iSpec 2200, S1000D, SGML/XML, Mil-STD Compliance
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PUBLICATIONS SUPPORT

- Green & Completions Publications
- Component Maintenance Manuals
- Certification Document Supplements
 - Aircraft Maintenance Manuals
 - Illustrated Parts Catalog
 - Wiring Diagrams
- Technical Directives / Service Bulletins
- PCR Revisions & Sustainment



Complete Product Lifecycle Support & Management

Providing engineering, prototyping, testing, technical publications, and logistics services. Our unique blend of experience, knowledge, and technical competencies complement your internal design team from initial concept through production and sustainment.

We're There.

ENGINEERING

- Design Analysis & Engineering
- Reverse Engineering / Design for Manufacture
- Structural / Failure & Stress Analysis
- Metallurgical & Materials Services
- Fixture Design & Fabrication

TESTING

- Dynamics and Vibration
- Electrical: EMI/EMC TEMPEST
- Structural & Fatigue
- Environmental (to DO-160 specifications)
- Windblast
- Safety & Survival
- Weapons & Munitions
- Optical
- Explosive Decompression

SUPPORT SERVICES

- R&D / SBIR
- Program Management
- Prototyping / Product Development
- Standards Development
- Fabrication & Machining

Our team of specialists will work with you to analyze and determine your program requirements –

Contact us for a no strings attached consultation.

Tel: (866) 300-1701 · Email: tech@dtb.com

Support → From the Ground ↻ Up!

Technical Authoring & Illustration · Conversion · Engineering · Testing · Logistics

Technical Services

- 3D Interactive Models
- File / Data Conversion
- Graphics Conversions
- IETM / IETP Development
- Publishing Solutions
- Tech Authoring & Documentation
- Technical Illustration
- Training Programs
- MBE - Model Based Enterprise
- Standards & Specifications
- XML & SGML Compliance

\$1000D Services

- Data Module Writing
- Data Module Rqmts List (DMRL)
- Conversion into \$1000D
- Business Rules Consulting
- CSDB Standup & Installation
- Training
- Illustration Creation & Hotspotting

Dynamics & Vibration Testing

- Seismic Vibration
- Random, Sine, etc.
- Acceleration
- Acoustic Noise
- Inclination
- Classic, Pyrotechnic, Hammer Shock
- Transport & Packaging Shock / Vibration
- Combined Environments Vibration

Logistics Services

- Consulting & Training
- Logistics Management / LMI
- Maintenance Planning
- Needs Analysis
- On-Site Support Services
- Parts Management
- Parts & Provisioning
- Product Life Cycle Support
- Program Management
- Reliability & Maintainability
- Standards & Specifications Support
- Web Based Solutions

Engineering Services

- CAD / CAE Capabilities
- CMM Inspection
- DDAM
- Dimensional Inspection
- Failure Analysis, Modes & Effects
- Hardware Standardization Programs
- Kinematic Studies
- Metallurgical, Corrosion
- Non-Destructive Testing
- Procurement Package Development
- Product Improvement & Validation
- Quality Audits & Site Surveys
- Rapid Prototype Design & Fabrication
- Reliability / Maintainability Modeling
- Reverse & Re-Engineering
- Stress Analysis
- Structural Analysis
- Test Facilities Developed
- Test Plan/Procedure Development
- Thermal Modeling
- Alternate Source
- Vendor Qualification

Arms, Armaments, Armor & Ammo

- Accelerated Life Testing
- Aircraft Interface Systems
- Ammunition Testing
- Ballistics & Ballistic Resistance
- Bomb Rack Qualification
- Bomb Rack Cartridge Testing
- Failure & Materials Analysis
- Mechanical & Electrical Armaments
- Missile Qualification
- Non-Destructive Testing
- Proof Testing
- Structural & "Up-Armor" Testing
- Weapons Development Testing
- 100-Meter Indoor Firing Range

Environmental Sim Testing

- Altitude
- Combined Environments
- Explosive Atmosphere
- Explosive Decompression
- Fluid Compatibility
- Fungus
- Humidity
- Icing / Freezing Rain
- Salt Fog
- Sand & Dust
- Solar Radiation
- Temperature Extremes
- Thermal Vacuum
- Wind & Rain Exposure

Optical Testing

- Diffuse Transmittance
- Haze / Illuminance
- Distortion & Deviation Analysis
- Laser Power
- Luminous Intensity & Transmittance
- Luminance & Reflectance
- Neodymium Laser
- Prismatic Deviation
- Spectrophometric Analysis
- Spherical & Cylindrical Power

Structural & Fatigue Testing

- Composite Material Testing
- Coupon Testing
- Damage Tolerance Analysis
- Fatigue / Fatigue Life Prediction
- Flight Test Support
- Hydraulic Pressure Testing
- Instrumentation & Data Acquisition
- Load Development
- Material Testing
- Servo-Controlled Load Application
- Static Testing
- Strain Gauge Services

EMI / EMC & Electrical Testing

- Electrical
- Electro-Static Discharge (ESD)
- Electromagnetic Pulse (EMP)
- Fixed Installations
- Lightning Strike Tests
- Magnetic Emissions & Immunity
- Power Quality
- Radiated & Conducted Emissions
- Radiated Susceptibilities
- Shielding Effectiveness

Safety & Survival Testing

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

Life Cycle Testing

- Accelerated Life Testing
- Environmental Exposure
- Life Cycle

Test Stands & Test Systems

- Auto / Semi-Auto / Manual Systems
- Automated Calibration Test Systems
- Acquisition Systems
- Design, Engineering, Fabrication
- Electrical Test Systems
- Electromechanical Data Systems
- Fuel Test Stands
- Hydraulic / Pneumatic Systems
- Mechanical Test Systems
- Rotary / Non-Rotary Component
- Servo Components
- Special Instrumentation Developed

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@dtb.com



Technical Publications: (866) 300-1701

Dayton T. Brown, Inc. · 1175 Church Street · Bohemia, New York 11716 USA