

TOP-3-2-045

Environmental and Ballistics Testing of Fire Arms

**Innovation.
Integrity.
Dependability.**



Dayton T. Brown, Inc. has provided the DoD, federal, state, local law enforcement and private industry communities with 60 years of unparalleled professional expertise in engineering and testing. Our engineering team has worked with these communities to help them answer some of their toughest questions. DTB is excited to bring that same tradition of innovation, integrity, dependability, knowledge and experience in Environmental and Ballistics Testing of Fire Arms.

Typical Environmental and Reliability Testing

- Function Test
- Suppressor
- Trigger
- Transportation Vibration
- Rain/moisture
- Pressure Test
- Ballistics Performance
- Reliability and Durability
- Visual Signature Muzzle Flash
- Visual Signature Smoke Signature
- Abrasion Resistance
- Salt Fog
- Sand and Dust
- Cold & Hot Function

www.dtb.com



Product Life Cycle Support Services
Serving Military and Commercial Markets
Since 1950



**ISO 9001:2008
Registered**



1195 Church Street, Bohemia, NY 11716-5014 USA
Please direct all inquiries to: Haim Gurewich 1-631-244-6203 • email haim@dtb.com
Visit our web site at: www.dtb.com

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

Ballistics

Dayton T. Brown, Inc. performs Forced Entry testing on architectural components, vehicular armor, and body armor. Other services include live fire test and evaluation (LFT & E) in our 100 meter x 24 foot wide indoor ballistic test facility, which is suitable for entire vehicles or large systems.

Essential Support Services

Safeguarding, accountability, security and safety systems for small arms and ballistic test programs that are approved by the DoD and compliant with:

- DoD manual 5100.76
- DoD manual 4145.26
- DoD manual 5220.22m
- FAR Part 45—Government Property
- Federal, State and local licensing requirements

Testing Standards

Include, but are not limited to:

- ATPD 2352 Transparent Armor
- SD-STD-01.01 Forced Entry and Ballistic Resistance of Structural Systems
- NIJ Standard-0108.01, Ballistic Resistant Protective Materials
- NIJ Standard-0101.06, Ballistic Resistance of Body Armor
- MIL-STD-810
- MIL-STD-461
- STANAG
- NIJ
- EN
- ANSI/SAAMI

DTB Accreditations/Certifications/Approvals

- A2LA accredited to ISO/IEC 17025*
- ISO 9001 Registered
- NVLAP accredited to ISO/IEC 17025*
- NIJ/NLECTC approved for Standard 0307.01 Handcuff/Restraints Testing
- NVLAP accredited for personal body armor*
- NIJ/NLECTC approved for testing to NIJ Standard-0101.06

Facilities

- 100 Meter indoor range
 - 24 ft. wide
 - 1-2 ft. thick reinforced concrete
 - 75 ft./min. air velocity passing shooter
 - Portable internal bunkers for armor testing
- 15 meter indoor range
- Dimensional lab
- Environmental lab
- Optics lab
- EMI/EMC lab
- Metallurgical lab
- High speed video
- Failure analysis lab
- 300,000 sq.ft. facility
- 32 acre site
- 5 minutes from L.I. MacArthur/Islip Airport
- 45 minutes from New York City

Engineering and Testing Services

- First article inspections
- Life cycle and durability testing
- Environmental simulation testing
- Dynamics and vibration testing
- Design and program engineering
- Structural static and fatigue testing
- Metallurgical engineering
- Failure analysis - V0, V50, BFS
- Prototyping
- Machine shop

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ENGINEERING & TEST DIVISION



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PHONE: (631) 244-6203
FAX: (631) 589-3648