High-resolution laser-based inspection of gun bores:

Using state-of-the-art BEMIS™ (a product of Laser Techniques Co., Redmond, WA) technology, Chesapeake Testing is offering industry-leading inspection of gun bores:

- Fast automated inspection and processing, providing high-precision, consistent, traceable results in minutes – concise and detailed reports provided
- Quantified measurements of internal bore dimensions, including rifling depth and twist rate (both standard & progressive), customized statistical analysis of results
- 3D visualization and analysis of the entire length of the barrel, including precise bore straightness and deflection measurements
- 3D surface measurements – providing point-cloud/surface information in order to compare empirical data direct to the CAD geometry
- High Resolution LaserVideo™, creating camera-like images of the entire inner surface – visualize and measure performance-degrading irregularities such as corrosion, chrome loss, and port erosion.

Accurate bore straightness and deflection measurements

High resolution visualization of performance-degrading irregularities

Detailed 3D visualization and surface measurements

Measurements of rifling at any location within the gun bore with maximum resolution of 0.00025”
About Chesapeake Testing:

Chesapeake Testing provides ballistic experimentation and non-destructive testing services in support of munitions and protection systems research. From our state-of-the-art laboratory in northeastern Maryland (near Aberdeen Proving Ground), we combine experimental and testing facilities, the latest testing and measurement equipment, and highly experienced personnel to efficiently meet our customer’s performance schedule, and cost requirements.

Each of our testing laboratories is led by a team of engineers who have an extensive background in their respective field. These labs which are equipped with some of the most sophisticated and advanced equipment available, are also ISO/IEC 17025:2005 accredited. Chesapeake Testing offers customers a one-stop shop for testing services.

For more information, please call Chris Peitsch at (410) 297-8154
email: chris.peitsch@chesapeaketesting.com

A NVLAP and A2LA ISO/IEC 17025:2005 accredited; NIJ approved laboratory

Ammunition Testing: Terminal Performance, Pressure Testing, and Flight Characterization

Gun Barrel Testing: Barrel Endurance, Wear/Erosion, and Dispersion Testing

Non-destructive Testing: X-ray, Computed Tomography, Eddy Current, and Magnetic Particle


Additional weapons systems testing and inspection capabilities

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