**BEMIS-SC™ Small Caliber (5.56mm – .45 Cal)**

**Bore Erosion Measurement and Inspection System**

**BEMIS-SC™ Features**

- **High Resolution** laser-based inspection system for assessment of gun barrel condition
- **Automated** inspection process removes operator subjectivity
- **3D Precision** bore erosion profiling and laser-based dimensional measurements
- **High Resolution LaserVideo™** provides camera-like image of entire gun tube surface
- **Quantitative data** for unparalleled gun tube surface and erosion analysis
- **Advanced analysis and reporting** software provides data in hard-copy summary or exportable to text file
- **Transportable Inspection Data** can be stored, transmitted and reviewed at remote locations
- **Automatic report generator** software provides tabular summary of test results
- **Operator-Configurable** motion and scan control
- **Quick setup** with automatic calibration routine
- **Sensor modules** easily exchanged
- **Optional** Bore Straightness and Deflection Module
- **On-Site training** available

**LTC…Making Heroes℠**
BEMIS-SC™ includes:

- LP-4210™ Data Acquisition and Control Unit
- LaserViewer™ Software
- External Motor Control unit
- Rigid Sensor Delivery Station
- Laser Sensor Scanning Assembly
- Guide Tube Adapter and Calibration Set
- Hard-sided Shipping Cases
- Instruction Manuals

Typical Display allows operators in-depth analysis of test results

Test results can be generated in tabular format

Basic Specifications:

Axial scan resolution: Up to 0.1 mm (0.004 inch) per increment

Rotary scan resolution: Up to 0.1 mm (0.004 inch) per increment

Sensor resolution: 5 microns (.00025 inch)

Sensor Linearity: 12 microns (.0005 inch)

Laser Power: < 4 mW

Laser Spot Size (max): 0.05 mm (0.002 inch)

Laser Power Classification: Class II

Power: 110/240 VAC – 50/60 Hz

Test Results Displayed: Contour view and cross sectional

Surface contour display with 256 color, grey-scale, thermal and solid color options