

# WEAPON SYSTEMS

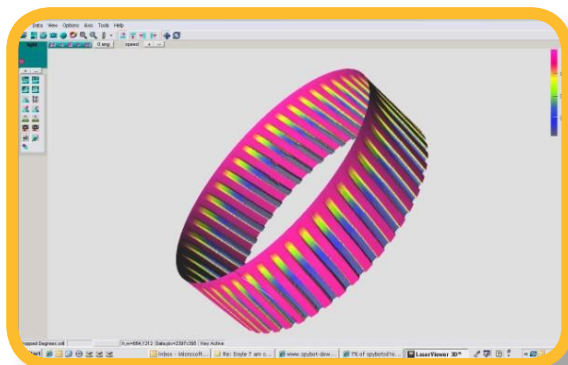
## BEMIS-LC™ Large Caliber (105mm – 155mm) Bore Erosion Measurement and Inspection System



Designed to inspect large caliber weapon bores



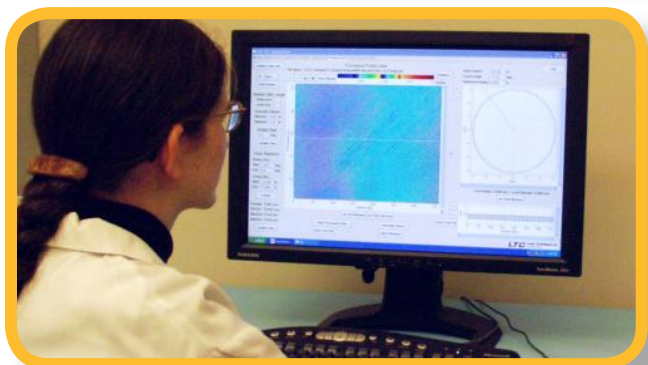
155mm Self-Propelled Scanning Assembly



3D Image Segment of 155mm gun bore

### BEMIS-LC™ Features

- High Resolution laser-based system for assessment of weapon bore condition
- Rugged and Portable Design for use in the field or shop
- Muzzle brake does not have to be removed during inspection
- Automated inspection process removes operator subjectivity
- 3D Precision bore erosion profiling and laser-based dimensional measurement
- High Resolution LaserVideo™ provides visual, 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 reviewed stored 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
- On-Site training available



LaserViewer™ Analysis and Reporting Software



**CLP**  
SYSTEM AB

[www.clp.se](http://www.clp.se)

# BEMIS-LC™

## BEMIS-LC™ includes:

- LP-4210F™ Field-Grade Data Acquisition and Control Unit including LaserViewer™ Software
- Self-propelled Crawler Unit
- Laser Sensor Scanning Assembly
- Shielded Sensor Extension Cable
- Integrated Guide Tube Adapter and Calibration Set
- Hard-sided Shipping Cases



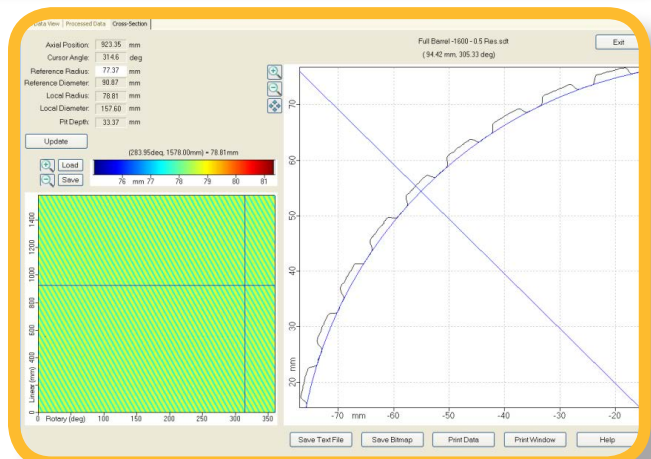
BEMIS™ Scanning 155mm Gun Bore

## 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

Diameter calculations												
Dial from	Scan	Land	Groove	Land	Groove	Land	Groove	Land	Groove	Average	Average	Radius
1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
0.5	-38.22	0.4950	0.5080	0.4955	0.5080	0.4955	0.5080	0.4950	0.5085	0.4955	0.5085	0.5084
1	-38.72	0.4950	0.5080	0.4955	0.5085	0.4955	0.5080	0.4955	0.5080	0.4945	0.5080	0.4952
1.5	-38.22	0.4955	0.5085	0.4950	0.5080	0.4950	0.5080	0.4950	0.5080	0.4954	0.5085	0.5086
2	-37.72	0.4955	0.5080	0.4955	0.5090	0.4950	0.5085	0.4955	0.5080	0.4954	0.5086	0.5086
2.5	-37.22	0.4960	0.5085	0.4955	0.5085	0.4950	0.5080	0.4955	0.5080	0.4956	0.5083	0.5083
3	-36.72	0.4965	0.5090	0.4960	0.5085	0.4955	0.5080	0.4955	0.5075	0.4958	0.5083	0.5083
3.5	-36.22	0.4965	0.5090	0.4960	0.5085	0.4955	0.5080	0.4955	0.5080	0.4962	0.5084	0.5084
4	-35.72	0.4965	0.5090	0.4960	0.5085	0.4960	0.5080	0.4970	0.5080	0.4964	0.5083	0.5083
4.5	-35.22	0.4965	0.5085	0.4960	0.5085	0.4965	0.5080	0.4965	0.5085	0.4963	0.5083	0.5083
5	-34.72	0.4965	0.5085	0.4960	0.5080	0.4965	0.5080	0.4970	0.5085	0.4964	0.5084	0.5084
5.5	-34.22	0.4965	0.5080	0.4960	0.5080	0.4970	0.5080	0.4970	0.5085	0.4965	0.5084	0.5084
6	-33.72	0.4965	0.5085	0.4965	0.5080	0.4970	0.5080	0.4965	0.5090	0.4965	0.5085	0.5085
6.5	-33.22	0.4965	0.5085	0.4965	0.5080	0.4970	0.5090	0.4965	0.5090	0.4967	0.5086	0.5086
7	-32.72	0.4965	0.5080	0.4970	0.5085	0.4970	0.5090	0.4965	0.5090	0.4968	0.5087	0.5087
7.5	-32.22	0.4965	0.5080	0.4975	0.5085	0.4970	0.5095	0.4965	0.5090	0.4968	0.5090	0.5090
8	-31.72	0.4970	0.5085	0.4975	0.5085	0.4970	0.5095	0.4965	0.5090	0.4970	0.5092	0.5092
8.5	-31.22	0.4970	0.5090	0.4980	0.5095	0.4965	0.5095	0.4965	0.5090	0.4970	0.5093	0.5093
9	-30.72	0.4975	0.5095	0.4980	0.5100	0.4970	0.5095	0.4965	0.5090	0.4973	0.5095	0.5095
9.5	-30.22	0.4980	0.5095	0.4975	0.5105	0.4970	0.5095	0.4970	0.5090	0.4974	0.5096	0.5096
10	-29.72	0.4985	0.5100	0.4980	0.5105	0.4975	0.5100	0.4970	0.5095	0.4977	0.5100	0.5100
10.5	-29.22	0.4980	0.5105	0.4980	0.5105	0.4970	0.5100	0.4975	0.5100	0.4976	0.5102	0.5102
11	-28.72	0.4980	0.5105	0.4975	0.5110	0.4975	0.5100	0.4980	0.5100	0.4977	0.5103	0.5103
11.5	-28.22	0.4985	0.5110	0.4980	0.5110	0.4975	0.5100	0.4980	0.5105	0.4980	0.5106	0.5106
12	-27.72	0.4985	0.5110	0.4975	0.5105	0.4980	0.5105	0.4985	0.5110	0.4981	0.5108	0.5108
12.5	-27.22	0.4985	0.5110	0.4980	0.5105	0.4980	0.5105	0.4985	0.5115	0.4982	0.5108	0.5108
13	-26.72	0.4985	0.5110	0.4985	0.5105	0.4985	0.5105	0.4990	0.5110	0.4986	0.5108	0.5108
13.5	-26.22	0.4985	0.5110	0.4985	0.5105	0.4985	0.5110	0.4990	0.5110	0.4987	0.5110	0.5110
14	-25.72	0.4980	0.5110	0.4985	0.5110	0.4990	0.5120	0.4990	0.5110	0.4986	0.5112	0.5112
14.5	-25.22	0.4980	0.5105	0.4985	0.5105	0.4980	0.5125	0.4985	0.5110	0.4985	0.5112	0.5112
15	-24.72	0.4985	0.5110	0.4990	0.5110	0.4990	0.5125	0.4985	0.5110	0.4986	0.5114	0.5114
15.5	-24.22	0.4990	0.5115	0.4995	0.5125	0.4995	0.5125	0.4990	0.5110	0.4991	0.5116	0.5116
16	-23.72	0.4990	0.5115	0.4995	0.5125	0.4995	0.5125	0.4985	0.5110	0.4992	0.5120	0.5120
16.5	-23.22	0.4995	0.5120	0.4995	0.5130	0.4995	0.5125	0.4990	0.5115	0.4995	0.5122	0.5122
17	-22.72	0.4995	0.5125	0.5000	0.5125	0.4995	0.5120	0.4990	0.5115	0.4995	0.5122	0.5122
17.5	-22.22	0.5000	0.5130	0.5000	0.5130	0.4990	0.5125	0.4985	0.5120	0.4996	0.5126	0.5126
18	-21.72	0.5005	0.5130	0.5000	0.5130	0.4995	0.5120	0.4995	0.5120	0.4998	0.5126	0.5126
18.5	-21.22	0.5005	0.5135	0.4995	0.5130	0.4995	0.5120	0.5000	0.5120	0.4998	0.5127	0.5127
19	-20.72	0.5005	0.5135	0.4995	0.5130	0.4995	0.5120	0.5000	0.5125	0.4999	0.5128	0.5128
19.5	-20.22	0.5000	0.5135	0.4995	0.5125	0.4995	0.5125	0.5005	0.5130	0.4999	0.5128	0.5128

Test results can be generated in tabular format



Typical display allows operators in-depth analysis of test results

## At your service

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