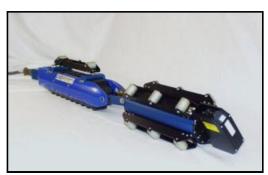


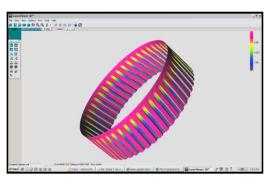
BEMIS-LC™ Large Caliber (105mm – 155mm) Bore Erosion Measurement and Inspection System



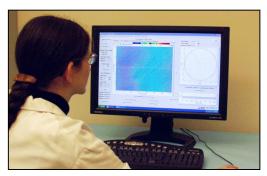
Designed to Inspect Large Caliber Weapon Bores



155mm Self-Propelled Scanning Assembly



3D Image Segment of 155mm Gun Bore



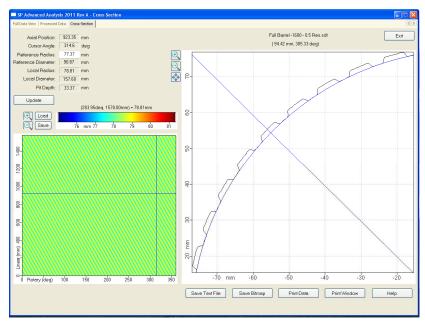
LaserViewer™ Analysis and Reporting Software

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 laserbased dimensional measurement
- High Resolution LaserVideoTM 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

LTC...Making Heroessm





Typical Display allows operators in-depth analysis of test results

		IMPAT: 1	0/1/2003	2-50-08	D.M.						
PERATO			U11/2003	2:59:00	- 10						
SARREL T	YPE: M2	50 Calibe									
SERIAL NU											
NUMBER											
MEASURE TEST PRO		MP: 82 6	•g. r								
TEST DIRE											
CAN DAT											
SCAN DAT											
			ENTIAL S		SPACING:	0.002 In					
REPORTA				i in							
NUMBER				LCULAT	ION: 15						
NUMBER	F GROO	VE SAM	PLES PER	CALCU	LATION: 3	1					
REPORT											
OTE: Lan	d 1 is the	first land	above 0 d	egrees at	the muzzi	e end.					
OMMENT	ė.										
OWNER											
Diameter c											
Dist from	Scan	Lands	Grooves		Grooves 28.6	Lands 35.7	Grooves 38.7	Lands	Grooves		
muzzie 0.5	-39.22	0.4950	0.5080	0.4965	0.5090	0.4955	0.5090	0.4950	0.5085	0.4955	0.5086
1	-38.72	0.4950	0.5080	0.4955	0.5085	0.4955	0.5090	0.4945	0.5080	0.4952	0.5084
1.5	-38.22	0.4955	0.5085	0.4960	0.5090	0.4950	0.5090	0.4950	0.5080	0.4954	0.5086
2	-37.72	0.4955	0.5090	0.4955	0.5090	0.4950	0.5085	0.4955	0.5080		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
3	-36.72	0.4965	0.5090	0.4960	0.5085	0.4955	0.5080	0.4955	0.5075	0.4958	0.5083
3.5	-36.22 -35.72	0.4965	0.5090	0.4960	0.5085	0.4955	0.5080	0.4965	0.5080	0.4962	0.5084
4.5	-35.22	0.4965	0.5085	0.4960	0.5085	0.4965	0.5080	0.4965	0.5085		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
5.5	-34.22	0.4965	0.5090	0.4960	0.5080	0.4970	0.5080	0.4970	0.5085	0.4966	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
6.5	-33.22 -32.72	0.4965	0.5085	0.4965	0.5080	0.4970	0.5090	0.4965	0.5090	0.4967	0.5086
7.5	-32.72	0.4965	0.5090	0.4970	0.5085	0.4970	0.5090	0.4965	0.5090	0.4968	0.5090
8	-31.72	0.4970	0.5085	0.4975	0.5095	0.4970	0.5095	0.4965	0.5090	0.4970	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
9	-30.72	0.4975	0.5095	0.4980	0.5100	0.4970	0.5095	0.4965	0.5090	0.4973	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
10.5	-29.72	0.4985	0.5100	0.4980	0.5105	0.4975	0.5100	0.4970	0.5095	0.4977	0.5100
11	-29.72	0.4980	0.5105	0.4980	0.5105	0.4970	0.5100	0.4975	0.5100	0.4976	0.5102
11.5	-28.22	0.4985		0.4980	0.5110	0.4975	0.5100	0.4980	0.5105	0.4980	
12	-27.72	0.4985		0.4975	0.5105		0.5105	0.4985	0.5110	0.4981	
12.5	-27.22	0.4985		0.4980	0.5105		0.5105	0.4985	0.5115	0.4982	
13	-26.72			0.4985	0.5105			0.4990		0.4985	
13.5	-26.22 -25.72			0.4985	0.5105			0.4990		0.4987	0.5110
14.5	-25.22	0.4980		0.4985	0.5105	0.4990		0.4985			0.5112
15	-24.72	0.4985		0.4990	0.5110	0.4990		0.4985			0.5114
15.5	-24.22	0.4990	0.5115	0.4995	0.5125	0.4995	0.5125	0.4990	0.5110	0.4991	0.5118
16	-23.72	0.4990	0.5115	0.4995	0.5125	0.4995	0.5125	0.4985	0.5110	0.4992	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
17.5	-22.72	0.4995	0.5125	0.5000	0.5125	0.4995	0.5120	0.4990	0.5115	0.4995	0.5122
17.5	-22.22 -21.72	0.5000	0.5130	0.5000	0.5130	0.4990	0.5125	0.4990	0.5120	0.4996	0.5125
18.5	-21.22	0.5005	0.5135	0.4995	0.5130	0.4995	0.5120	0.5000	0.5120	0.4998	0.5120
19	-20.72	0.5005	0.5135	0.4995	0.5130	0.4995	0.5120	0.5000	0.5125	0.4999	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
20	-19.72	0.5000	0.5135	0.4995	0.5120	0.4995	0.5120	0.5005	0.5130	0.4998	0.5126
20.5	-19.22	0.5000	0.5130	0.4995	0.5120	0.5005	0.5125	0.5005	0.5130	0.5001	0.5127
21	-18.72	0.4995	0.5130	0.4995	0.5120	0.5005	0.5125	0.5006	0.5130	0.5000	0.5126
		0.4995	0.5130 0.5125 0.5120	0.4995 0.4995 0.5000	0.5120 0.5120 0.5120	0.5005	0.5125	0.5005	0.5130 0.5130 0.5130	0.5000	0.5125

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

BEMIS™ Large Caliber Inspection System 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 Tube

USA
Laser Techniques Company, LLC
information@Laser-NDT.com

Japan Kaigai Aviotech uemura@kaigaiaviotech.com Korea
AirTech Into Inc.
jay@airtechus.com

Sweden
CLP Systems AB
t.jagerman@clp.se

Spain
MENPRO
antonio.oliva@menpro.es