

**DESIGN**

**Tool Attributes**

Odometer Channels	2
Odometer Resolution	500 times a second sampling
Data Storage	Flash Data Storage, expandable
Inertial Mapping	GIS/GPS Mapping & Geospatial Reporting

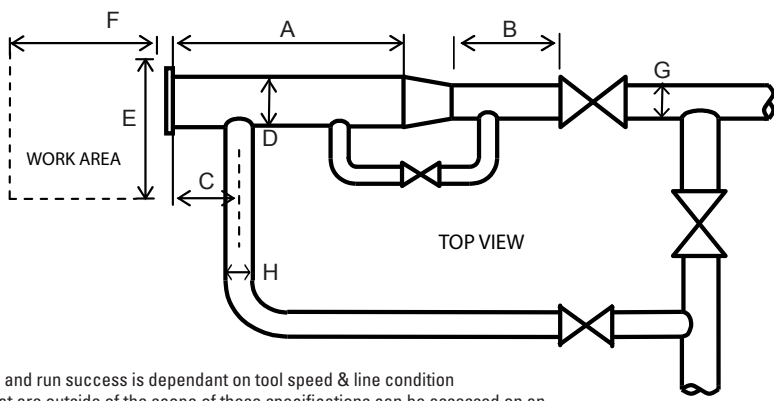
DATA SETS (# Sensors)		OPERATIONAL	
Caliper	24	Max. Pressure	1875 psi (12928 kPa)
Gyros	3	Temp. Range	32 to 170 °F (0 to 77 °C)
Accelerometers	3	Velocity	≈ 0.1 to 10 mph (0.04 to 4.0 m/s)
		Required Differential Pressure	30 to 125 psi (207 to 862 kPa)

PIPELINE GEOMETRY REQUIREMENTS	in (mm)
Minimum Local Bore	25% of pipe O.D.
Min. Bend Radius	3D (in liquid lines; max w.t. 0.337 (8.56))
Min. Bend Separation	2D

IMU SPECIFICATIONS @ 3 to 8 mph (1.3 to 3.6 m/s)		DIMENSIONS	
		Length	54.22 in (1378 mm)
		Weight	34.30 lb (15.56 kg)
<b>Gyros</b>	<b>Accelerometers</b>	<b>TOOL RANGE</b>	
Latitude	±1 m, 1 σ	* Run Time	36 hours
Longitude	±1 m, 1 σ		
Elevation	±1 m, 1 σ		
	Additional information available upon request		

REPORTING	in (mm)
<b>Dent/Ovality Sizing</b>	
Dent Depth Sizing	± 0.5% of Pipe O.D.
Dent Length Sizing	± 10% of Pipe O.D.
Ovality Depth Sizing	± 0.5% of Pipe O.D.
<b>Bend Measurement</b>	
Angle Accuracy	± 2 degrees
<b>Location Accuracy</b>	
Feature to Upstream Girth Weld	± 1.00 (25)
Feature to Upstream Marker	± 60.00 (1524)
Feature Orientation	± 15 degrees
<b>Axial Sampling</b>	
1.5 inches (depending on line condition, tool speed, and line length).	

SUGGESTED MINIMUM TRAP DIMENSIONS in (mm)								
Traps	A	B	C	D	E	F	G	H
Launcher	66 (1676)	27 (686)	18 (457)	6 (152)	52 (1321)	126 (3200)	4 (102)	2 (51)
Receiver	66 (1676)	66 (1676)	18 (457)	6 (152)	52 (1321)	126 (3200)	4 (102)	2 (51)



- Notes:**
- Data quality and run success is dependant on tool speed & line condition
  - Pipelines that are outside of the scope of these specifications can be assessed on an individual basis; please contact Enduro.
  - Tool design may vary from image above.

\* Increased run time available with additional battery packs  
Data is subject to change without notice | 4" DdL 0002-4B-25984 Rev. 5  
1/11/2016 - 0002-19-22384 rev 2

**4 inch**

