

DESIGN

Tool Attributes

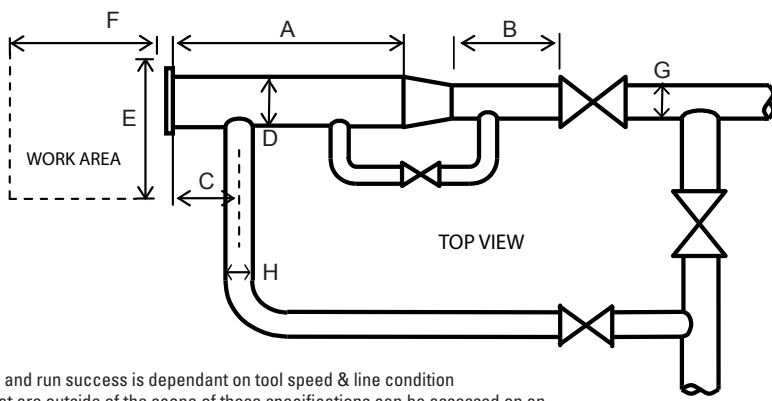
Odometer Channels	2
Odometer Resolution	0.100 in (2.54 mm)
Data Storage	Flash Data Storage, expandable
Inertial Mapping	GIS/GPS Mapping & Geospatial Reporting

DATA SETS (# Sensors)		OPERATIONAL	
Metal Loss	48	Max. Pressure	1650 psi (11376 kPa)
Residual	24	Temp. Range	32 to 140 °F (0 to 60 °C)
IDOD	24	Velocity	≈ 0.1 to 8 mph (0.04 to 3.6 m/s)
Caliper	24	Required Differential Pressure	30 to 125 psi (207 to 862 kPa)

PIPELINE GEOMETRY REQUIREMENTS	in (mm)
Local Min. Cross Sectional Diameter (in straight pipe - Dent, Buckle, etc.)	3.38 (85.85)
Feature Bore Restriction Diameter (Tee, Valve, etc.)	3.60 (91.44)
Min. Bend Radius	3D has max w.t. 0.337 (8.56)
Min. Bend Separation	8.00 (203.20)
Min. Tee Separation (centerline to centerline)	12.50 (317.50)
Max. Passable Wall Thickness	0.450 (11.43)
Max. Recordable Wall Thickness	0.337 (8.56)

IMU SPECIFICATIONS @ 3 – 8 mph / (1.3 to 3.6 m/s)		DIMENSIONS	
Gyros	Accelerometers	Length	76 in (1930 mm)
Latitude ±1 m, 1 σ	Additional information available upon request	Weight	60 lb (27 kg)
Longitude ±1 m, 1 σ		TOOL RANGE @ 3 mph (1.3 m/s)	
Elevation ±1 m, 1 σ		* Run Time	25 hours or 45 miles expandable

SUGGESTED MINIMUM TRAP DIMENSIONS in (mm)								
Traps	A	B	C	D	E	F	G	H
Launcher	97 (2464)	42 (1067)	18 (457)	6 (152)	52 (1321)	157 (3988)	4 (102)	2 (51)
Receiver	97 (2464)	97 (2464)	18 (457)	6 (152)	52 (1321)	157 (3988)	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" DfL 0700-4B-23349 Rev. 6 - 0700-19-25790 Rev 4

REPORTING

Metal Loss	ERW	Seamless
Min. Depth Sizing (POD 90%)	15%	20%
Sizing Accuracy - Depth	± 15% (.15t)	± 20% (.20t)
Sizing Accuracy - Length	± 0.50 in (13 mm)	
Geometry Data		
Reporting Threshold	0.50% of Pipe O.D. (0.03 in)	
Sizing Accuracy - Depth	0.03 in (0.76 mm)	

- Location Accuracy**
- Axial: ± 0.01% within a joint
 - Circumferential: ± 10°
- Bend Data**
- Angle Accuracy ± 2°
 - Direction ± 10°
 - Radius ± 0.2D

Notes:

4 inch

