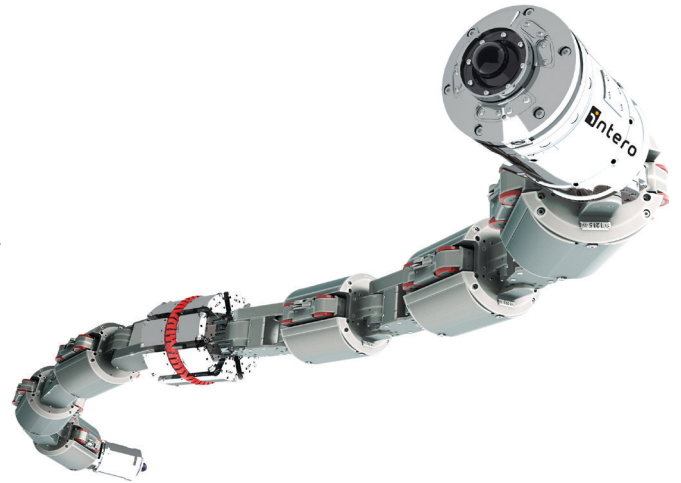


Pipe Explorer 8 Robotic Inline Inspection System

Robotic Inline Inspection of Unpiggable Pipelines With No Strings Attached

Pipeline integrity leaders and professionals with challenging and unpiggable pipe assets who are seeking to reduce risk, exposure to incidents, and seeking a level of safety beyond mandated standards typically experience reduced probability of incidents upon implementation of Pipe Explorer.

We lead the industry via the ability to navigate unpiggable pipes and provide best visibility to imminent threats with the highest quality, accuracy, and quantity of data, just as we have done for numerous industry-leading clients.



Specifications

Pipe Diameter:	8"	Data Collection in 1.5D Bends:	TBD
Maximum WT:	0.322" 8.2 mm	Robot Length:	10' 3.1 m
Rated Pressure:	750psi 50 bar	Robot Carrier Length:	12' 3.7 m
Self-Propelled Insp. Speed:	20ft/min 300 m/hr	Robot Weight:	250 lbs 114 kg
Bypass:	50%	Robot Carrier Weight:	250 lbs 114 kg
Minimum Bore:	80% of OD		

Key Features

✓ Bi-Directional	✓ MFL Metal Loss Sensor	✓ 45° Mitered Bend
✓ Tetherless	✓ LDS Deformation Sensor	✓ 90° Mitered Bend
✓ Inline Charging	✓ Vertical Segment	✓ Valve (full port)
✓ Video	✓ Back-to-Back Elbows	✓ Tee (barred or unbarred)

Inspection Range

Inspection Distance Point to Point:	2,000' 600 m
Inspection Distance Out and Back:	1,500' 475 m
Inspection Range with Inline Charging:	Unlimited

MFL Metal Loss Sensors Specifications

General Metal Loss Sizing Specification	Nominal Pipe	Cased Pipe
Depth at POD = 90%	0.10t	0.20t
Depth accuracy (80% confidence)	$\pm 0.10t$	$\pm 0.20t$
Width accuracy (80% confidence)	± 0.75 inches ± 20 mm	± 1 inches ± 25 mm
Length accuracy (80% confidence)	± 0.5 inch ± 12 mm	± 0.75 inch ± 20 mm

- t = wall thickness
- Detection threshold and sizing accuracy in bends are unspecified
- Detection threshold increases to 0.15t and depth sizing accuracy degrades to $\pm 0.15t$ in seamless pipe
- Depth sizing accuracy degrades to $\pm 0.20t$ near girth welds or in heat affected zones

Laser Deformation Sensors Specifications

Sizing Specification	Dent
Depth at POD = 90%	1% of pipe nominal OD
Depth accuracy (80% confidence)	$\pm 1\%$ of pipe nominal OD
Width accuracy (80% confidence)	± 2 inches ± 50 mm
Length accuracy (80% confidence)	± 1 inch ± 25 mm

