

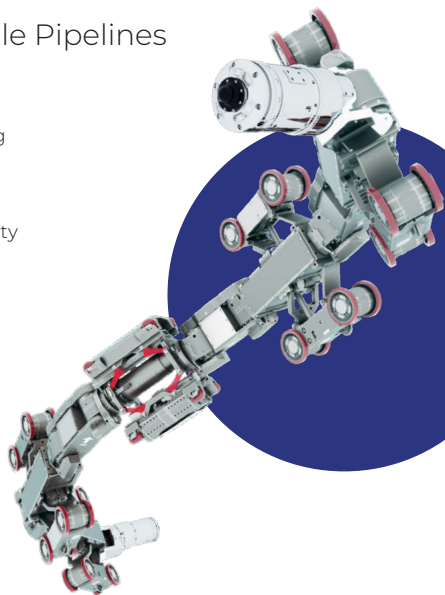
Pipe Explorer CMFL

Seam Weld Assessment

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.



Key Features

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

Pipe Explorer CMFL 16/18

Pipe Diameter: 16", 18"

Maximum WT: 0.500" | 12.7 mm

Rated Pressure: 750psi | 50 bar

Self-Propelled Inspection Speed: 1000ft/hr | 300 m/hr

Bypass: 50%

Minimum Bore: 80% of OD

Data Collection in 1.5D Bends: Yes

Pipe Explorer CMFL 20/26

Pipe Diameter: 20", 22", 24", 26"

Maximum WT: 0.500" | 12.7 mm

Rated Pressure: 750psi | 50 bar

Self-Propelled Inspection Speed: 1000ft/hr | 300 m/hr

Bypass: 50%

Minimum Bore: 80% of OD

Data Collection in 1.5D Bends: Yes



Specifications of Seam Weld Sensor

Axially Oriented Anomalies On or Near Long Seam Weld	Length of Anomaly Greater than 1 inch 25 mm
Depth	0.30t
Minimum anomaly opening	0.004 inch 0.1 mm
Maximum wall thickness	Explorer 16/18: 0.375 inch 9.5 mm Explorer 20/26: 0.50 inch 12.7 mm
Depth accuracy (80% confidence)	+/- 30%
Length accuracy (80% confidence)	+/- 1 inch (25mm)

- t = wall thickness
- Detection threshold and sizing accuracy in bends/elbows are unspecified.

Specifications of Laser Deformation Sensor

Dent Sizing Specification	Pipe Explorer CMFL 16/18, 20/26
Depth at POD = 90%	1% of pipe nominal OD
Depth accuracy (80% confidence)	± 1% of pipe nominal OD
Maximum wall thickness	Explorer 16/18: 0.375 inch 9.5 mm Explorer 20/26: 0.50 inch 12.7 mm
Depth accuracy (80% confidence)	± 2 inches ± 50 mm
Length accuracy (80% confidence)	± 1 inch ± 25 mm

- POD = Probability of Detection
- Detection threshold and sizing accuracy in bends are unspecified.

Inspection Range

Inspection Distance Point to Point:	2,600' 800 m
Inspection Distance Out and Back:	2,000' 600 m
Inspection Range with Inline Charging:	Unlimited

