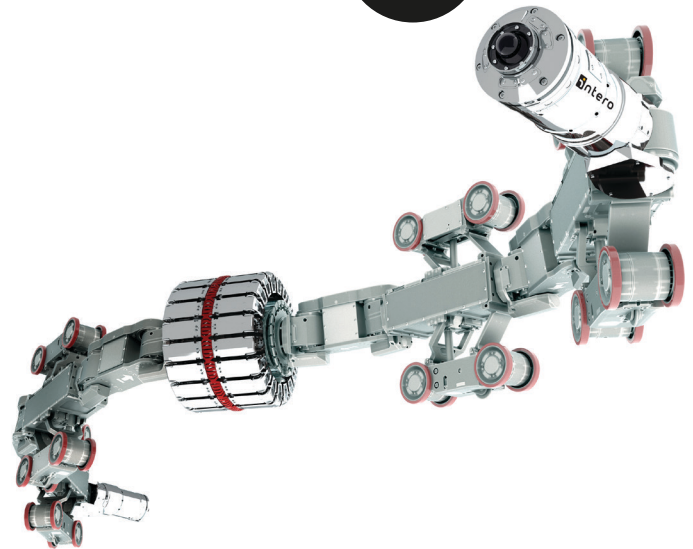


Pipe Explorer 20/26

ILI 20/26

Robotic Inline
Inspection of
Unpiggable
Pipelines With
No Strings Attached



Specifications

Pipe Diameter:	20", 22", 24", 26"
Maximum WT:	0.750" 19.1 mm
Rated Pressure:	750psi 50 bar
Self-Propelled Insp. Speed:	20ft/min 300 m/hr
Bypass:	50%
Minimum Bore:	80% of OD

Data Collection in 1.5D Bends:	Yes
Robot Length:	15' 4.6 m
Robot Carrier Length:	17' 5.2 m
Robot Weight:	900 lbs 409 kg
Robot Carrier Weight:	1,200 lbs 545 kg

Key Features

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

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

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

