

12 inch XHR MFL In-Line Inspection Tool

Physical Dimensions and Inspection Specifications



Combined MFL and geometry surveys available

PHYSICAL CHARACTERISTICS	
Metal Loss Sensors	144 hall effect; 0.26" uniform circumferential spacing
Pipe Axis Sample Rate	Each sensor reads 1403 times per second (.063" at 5 MPH)
ID/OD Sensors	Continuous full circumferential coverage
Location Sensors	Odometers; speed integration; 6 axis strap down inertial sensor integration; GPS surface markers with pig passing indicators; pipeline feature recognition
Auxiliary Sensors	Internal temperature; coordinated system clock; shock sensor
Data Recorded	12 bit permanent record from each sample
Tool Length	7.70 ft (2.35 m) tip-to-tip
Tool Weight	580 lbs (265 kg)
OPERATING ENVIRONMENT	
Maximum Tool Speed	10 mph (with pipe axis sample spacing of 0.125"); faster speeds increase sample spacing
Maximum Pressure	2000 psi (138 bar)
Maximum Temperature	130° F (54° C)
Maximum Wall Thickness	0.625" for rated resolution
Minimum Bend Radius	1½ D
Minimum Local Bore	80% standard pipe ID (75% Pipe OD)
Lateral Joints	Passes full bore barred or unbarred tees
Run Time	50 hour standard
Range	250 miles standard
PRELIMINARY DEFECT CHARACTERIZATION SPECIFICATION	
Pit Corrosion (A<3tx3t)	Minimum identifiable defect depth: 0.05t
	Minimum quantifiable defect depth: 0.05t
	Depth accuracy ±8% WT
	Length accuracy ±0.2"
Broad Corrosion (A<3tx3t)	Width accuracy ±0.5"
	Minimum identifiable defect depth: 0.05t
	Minimum quantifiable defect depth: 0.05t
	Depth accuracy ±8% WT
Location Accuracy	Length accuracy ±0.5"
	Width accuracy ±1.2"
	Axial ±1% of distance from nearest recognizable pipeline feature or ±3" when referenced to a girth weld on the same pipe joint Radial ±10°

*Consult your Pure Technologies Ltd. representative for additional sizes and configurations