24 inch XHR MFL
In-Line Inspection Tool

Combined MFL and geometry surveys available

Physical Dimensions and Inspection Specifications

	PHYSICAL CHARACTERISTICS
Metal Loss Sensors	288 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	4.75 ft (1.45 m) tip-to-tip
Tool Weight	650 lbs (295 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 (78% 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”
	Width accuracy ±0.5”
Broad Corrosion (A<3tx3t)	Minimum identifiable defect depth: 0.05t
	Minimum quantifiable defect depth: 0.05t
	Depth accuracy ±8% WT
	Length accuracy ±0.5”
	Width accuracy ±1.2”
Location Accuracy	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