IN-LINE INSPECTION AND INTEGRITY SUPPORT SERVICES GEOMETRY AND MFL INSPECTION

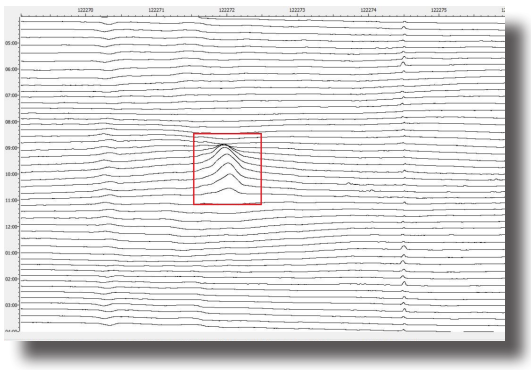
In-line inspection allows pipeline operators to have better information on the condition of their pipeline systems and develop adequate maintenance and repair programs. Adopting a proactive approach to addressing integrity threats enables pipeline operators to avoid production and consequential losses caused by pipeline failures.

PIPECARE provides geometry and MFL inspection services. These proven technologies provide pipeline operators with invaluable pipeline condition information, which helps them to improve safety, environmental and economic performance.

PIPECARE GEOMETRY TOOLS

Tool sizes	3” to 24”
Pipeline product	Gas, liquids, multiphase
Operating pressure range	0 to 120 barg
Operating temperature range	-20 to 85° C
Wall thickness range	3 - 25.4 mm
Tool velocity range	0.2 – 5.0 m/sec
Min. pipeline bend radius	1.5D (4” and above)
Min. bore reduction	70-75% of OD
Axial resolution	2.5 mm
Circumferential coverage	360 degrees

Tools of other sizes and higher performance specification are available upon request.



DETECTION AND SIZING SPECIFICATIONS

Features and anomalies:

- Valves, flanges, welds, tees, taps, bends
- Dents, buckles, wrinkles, ovalities, ID changes

Detection and sizing specifications (at 80% certainty):

Dents detection threshold	1.5% of OD
Depth sizing accuracy	1.5% of OD
Ovality detection threshold	2% of OD
Ovality sizing accuracy	2% of OD
Probability of detection	95%

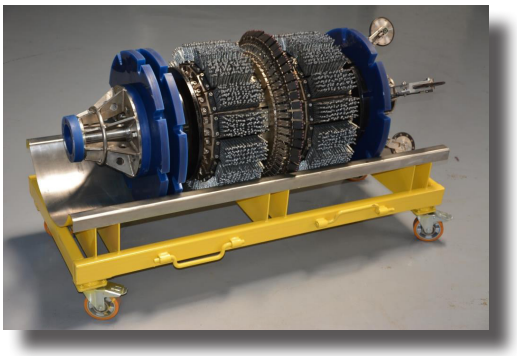
Location accuracy (at 90% certainty):

Axial position from closest weld	0.15 m
Accuracy of distance from pig trap valve	0.2%
Accuracy of circumferential position	10°

IN-LINE INSPECTION AND INTEGRITY SUPPORT SERVICES GEOMETRY AND MFL INSPECTION

PIPECARE MFL TOOLS

Tool sizes	3” to 24”
Pipeline product	Gas, liquids, multiphase
Operating pressure range	0 to 120 barg
Operating temperature range	-20 to 85° C
Wall thickness range	3 - 25.4 mm
Tool velocity range	0.2 – 5.0 m/sec
Min. pipeline bend radius	1.5D (6” and above)
Min. passage bore	80-85% of OD



Optionally, the MFL tools can be equipped with tri-axial sensors for even better detection and sizing.
Tools of other sizes and higher performance specification are available upon request.

DETECTION AND SIZING SPECIFICATIONS

	General Metal Loss	Pitting	Axial Grooving	Circumferential Grooving
Depth at POD 90%	0.1t	0.1t	0.1t	0.1t
Depth sizing accuracy at 80% certainty	0.1t	0.13t	0.15t	0.1t
Width sizing accuracy at 80% certainty	+/- 15 mm	+/- 12 mm	+/- 12 mm	+/- 15 mm
Length sizing accuracy at 80% certainty	+/- 10 mm	+/- 10 mm	+/- 15 mm	+/-10 mm

LOCATION ACCURACY

Axial position from closest weld at 90% certainty	0.15 m
Accuracy of distance from pig trap valve at 90% certainty	0.2%
Accuracy of circumferential position at 90% certainty	10°

FLEXIBLE SOLUTIONS

To clients who operate pipelines that are difficult to inspect, we offer our tailor-made solutions for pipelines that have the following conditions:

-Low pressure
-Low flow
-High temperature
-Heavy wall thickness
-Sour product
-No pig traps or single point entry

Contact us for your customized in-line inspection solution today!

PIPECARE Inspection Services Inc. I 109 - 4800 104 AVE SE Calgary, AB T2C 2H3
Web: www.pipecare.ca I Email: info@pipecare.ca I Phone: 403.700.3208