RoGeo XT Service

In-line High-End-Resolution Geometry Measurement and Debris Profiling

Optimize pipeline uptime and performance

World's largest ILI tool fleet ensures high availability

Enables integrity assessments of buried and offshore pipelines



Pipeline assets are at risk of reduced operational performance, damage and eventual failure because of geometrical deformation. High-resolution in-line inspection (ILI) and mapping of your pipelines can detect, categorize and locate deformation, enabling you to act before minor damage turns into a major shutdown. You cannot predict geohazards, climate extremes or the actions of third parties that might damage your pipelines. However, you can design and implement a holistic and integrated geometric deformation risk management strategy. This reduces your risk and, as part of a wider integrity management framework, can identify multiple threats to further safeguard your pipeline assets.

Featuring a unique dual sensor combination, our RoGeo XT in-line inspection solution maps the location and details of internal diameter (ID) anomalies to an exceptional level of detail. Mechanical calipers partnered with eddy current proximity sensors provide full circumferential and axial coverage.
Inaccurate assessments are avoided as this sensor combination distinguishes between scale and wax deposits, lift-off and geometric anomalies.

- Precise stress and strain assessments highlight combined threats
- Enables the detection of coincident features
- Retains accuracy under debris or tough conditions

RoGeo XT Detects Multiple Threats to Assure Your Pipeline Integrity

- Industry-leading accuracy and data quality through unique dual sensor technology
- Minimizes conservatism of integrity assessments based on exceptionally detailed anomaly profiles that uncover ovality, dents, buckles, bending and stress-induced features
- Quantitatively determines the level of scale, wax and debris to accurately inform or adapt your pipeline cleaning program

ROSEN
empowered by technology

- Operates in liquid and gas pipelines both at high and low medium velocities - Thoroughly tested to be compliant with common codes, standards and regulations
- Accurate assessments of dents with metal loss in combination with our RoCorr Services
- Well-proven tools deliver consistent data quality with a first run success rate of 95%

Remarks and Features

- API 1163 compliant services
- CE and ATEX certification available
- Tailored solutions with different specifications upon request: multiple tool sizes or multi-diameter tools, higher pressure rating
- Contact ROSEN for more detailed information about the presented service
- Specifications are subject to change, depending on specific requirements or tool configurations

Technical Specifications

Standard Operating Specifications

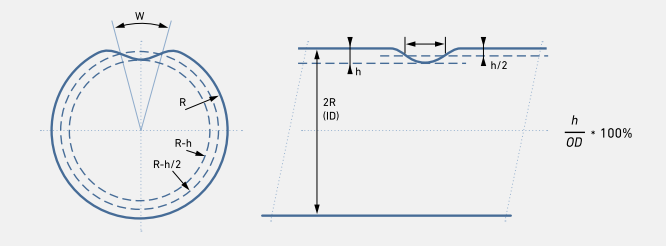
Tool sizes available	6"-56"
Pipeline product	Gas or liquids
Product temperature range	0 °C-65 °C (32 °F-149 °F)
Maximum operating pressure	15 MPa (2,175 psi) 25 MPa (3,625 psi) optional
Operating speed range	Up to 5.0 m/s (11.2 mph)
Product flow range*	Up to 12.0 m/s (26.9 mph)
Minimum pipeline bend radius	1.5D
Maximum operating time	400 hours
Maximum inspection length	1.000 km (620 miles)
Minimum clearance/passage	80 % of nominal diameter

* Fitted with optional speed control system (gas lines only)
Note: Please contact ROSEN for conditions outside of these specifications.

Performance Specifications – Geometry

Feature		OD [inch]	Accuracy[1]	Detection Threshold
OD[2] Changes			±0.8 mm (0.03")	±0.8 mm (0.03")
Ovalities	Ovality		0.5 %	0.5 %
	Length		±100.0 mm (4")	
Dents[3,4]	Depth	<10" 10"-16" 18"-28" 30"-38" 40"-56"	±0.5 % ±0.5 % ±0.3 % ±0.2 % ±0.15 %	1.0 % 0.8 % 0.5 % 0.3 % 0.2 %
	Length		±7.6 mm (0.3")	
	Width		±25.4 mm (1.0")	
	Orientation		±12°	

1 Values are given for a certainty level of 80 % and a POD of 95 %
2 Or ID, respectively
3 Including wrinkles and buckles
4 Dent definition



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