RoGeo MX Service

In-line High-Resolution Geometry Measurement with Absolute ID Measurement

Optimize pipeline uptime and performance

World's largest ILI tool fleet ensures high availability

Cost-effective deformation assessments

Pipeline assets are at risk of reduced operational performance, damage and eventual failure because of geometrical deformation. High-resolution in-line inspection 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.

Our RoGeo MX in-line inspection solution maps the location and details of internal diameter (ID) anomalies to an exceptional level of detail. A high number of mechanical calipers provide full circumferential and axial coverage.

- Precise stress and strain assessments highlight combined threats
- Enables the detection of coincident features

RoGeo MX Detects Multiple Threats to Assure Your Pipeline Integrity

- Industry-leading accuracy and data quality through highest circumferential and axial resolution
- Minimizes conservatism of integrity assessments based on exceptionally detailed anomaly profiles that uncover ovality, dents, buckles, bending and stress-induced features
- Absolute ID measurement providing unprecedented precision about internal pipeline profiles and features
- 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 over 95%

ROSEN
empowered by technology

Remarks and Features

- API 1163 compliant services
- CE certification available, ATEX on request
- 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

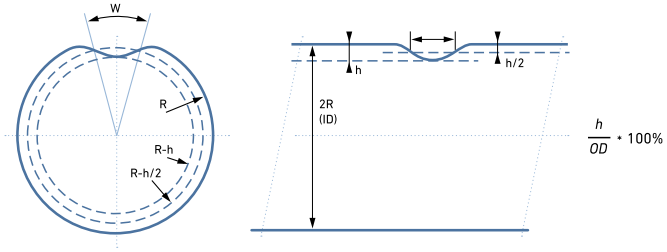
Tool sizes available	8"-56"
Pipeline product	Gas or liquids
Product temperature range	0 °C-55 °C (32 °F-131 °F)
Maximum operating pressure	15 MPa (2,175 psi)
Operating speed range	Up to 5.0 m/s (11.2 mph)
Min. Bend Radius	1.5D

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")
Absolute ID (Only valid in straight pipe)		6"-24" >24"-38" ≥40"	1 mm (0.04") 2 mm (0.08") 3 mm (0.12")	
Ovalities	Ovality		1.0 %	0.5 %
	Length		±100.0 mm (4")	
Dents[3,4]	Depth	≤16" >16"	±0.5 % ±0.3 %	0.5 % 0.3 %
	Length	±10 mm (0.39")		
	Width	±15 mm (0.59")		
	Orientation	±15°		

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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ROSEN-Group_Serviceflyer_RoGeo_MX_v2-0_2025