

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%

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

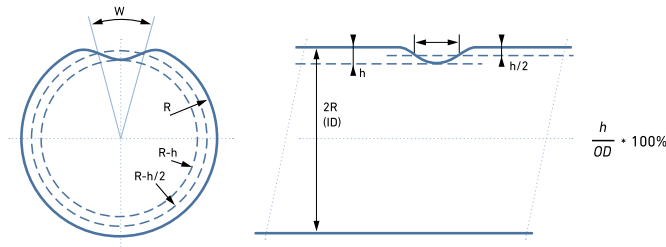
Feature	OD [inch]	Accuracy ¹	Detection Threshold
OD ² Changes		±0.8 mm (0.03")	0.8 mm (0.03")
Absolute ID (Only valid in straight pipe)	6"-24" >24"-38" ≥40"	1 mm (0.04") 2 mm (0.08") 3 mm (0.12")	
Ovalities	Ovality	1.0 %	0.5 %
	Length	±100.0 mm (4")	
Dents ^{3,4}	Depth	≤16" >16"	±0.5 % ±0.3 %
	Length	±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:



ROSEN Swiss AG
Obere Spichermatt 14 · 6370 Stans · Switzerland
Phone: +41-41-618-0300
info@rosen-group.com
www.rosen-group.com
ROSEN-Group_Serviceflyer_RoGeo_MX_v2-0_2025
© 2025 ROSEN Swiss AG.
All rights reserved.

This document is the property of ROSEN Swiss AG who will safeguard its rights according to the applicable civil and criminal law provisions. No part of this document may be reproduced without the prior written consent of ROSEN Swiss AG.
The information provided in this document is for general informational purposes only and is based on current technical knowledge and experience. It does not constitute any professional advice or any legally binding offer. While every

effort has been made to ensure the accuracy of the information provided, no warranties, guarantees or representations, either expressed or implied, are made as to the completeness, accuracy, reliability, or timeliness of the information.
This document may be updated and amended by ROSEN from time to time due to technical, regulatory and / or legal requirements or changes without prior notice. Only the latest version of this document is applicable; all earlier versions shall cease to be valid.