

## EVO SERIES UM 1.0

THE FUTURE OF ULTRASONIC  
METAL LOSS INSPECTION



### **EVO SERIES 1.0: INTRODUCING THE NEXT GENERATION**

NDT Global is taking ultrasonic inline inspection to a new level with the launch of a new fleet featuring the leading-edge Evo Series 1.0. This innovative technology significantly improves tool performance by enhancing speed, resolution and reliability.

Representing state of the art electronics and incorporating high-resolution sensor carriers, Evo Series 1.0 marks a milestone in ILI evolution. It boosts the performance of inspection equipment by a factor of four. In concrete terms, the tools are capable of traveling four times faster, or the sensor resolution is four times higher. Alternatively, the tools can be twice as fast with double the axial sensor resolution which adds up to a factor of four improvement.

### **HIGHEST PERFORMANCE AT MAXIMIZED FLEXIBILITY**

<b>Evo Series 1.0</b>	<b>Your Benefit</b>
Up to four times faster inspection speed	No reduction of flow rate
Up to four times higher axial resolution	High performance metal loss profiling and pitting inspection
Shorter tool lengths	Enhanced tool operation
Maximized ILI tool flexibility	Customization to your needs



# EVO SERIES UM 1.0

## THE FUTURE OF ULTRASONIC METAL LOSS INSPECTION

### SPECIFICATIONS

#### Key tool specifications: Evo Series UM 1.0

Available tool sizes	6" to 48"	
Pipeline medium	Liquid	
Max. operating speed <sup>1)</sup>	Up to 4 m/s	
Temperature range	-10 to +50 °C	
Max. pressure	120 bar	
Min. bend radius	1.5D/90°	
Min. axial sampling distance <sup>1)</sup>	0.75 mm	
Circumferential sensor spacing	4 mm	
Defect location accuracy <sup>1)</sup> :	Axial from nearest girth weld	± 0.1 m
	Circumferential for $\phi < 20"$	± 10°
	Circumferential for $\phi \geq 20"$	± 5°

<sup>1)</sup> Max. operating speed and min. axial sampling distance depend on specific ILI tool set-up. Special configuration for high temperature, high pressure, multi-diameter and bi-directional available upon request.

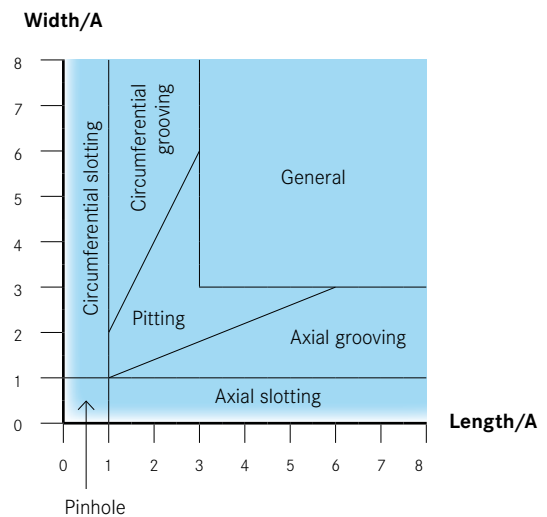


Inline Inspection Tool – Evo Series UM 1.0

#### Key performance specifications (according to API 1163)

Detection and sizing of metal loss @ POD $\geq 90\%$	Min. diameter Min. depth	5 mm 1 mm
Discrimination internal/external		Yes
Depth sizing		± 0.4 mm
Wall thickness determination		± 0.4 mm
Mid-wall features	Laminations and inclusions min. diameter	10 mm

#### Metal loss feature classification chart



A = wall thickness or 10 mm, whichever value is greater

**Please note:** Tool and performance specifications depend on inspection and pipeline conditions. Please contact your local NDT Global representative for further information.

NDT Global reserves the right to introduce modifications and changes without prior notice.

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