



MagIQ PS13

MagControl Pipe Inspection System

InnetiQs offers the MagIQ PS13 Scanning System which enables external applied inspection of bare, coated or clad pipes. The high sensitive MagControl partial saturation eddy current technique allows fast scanning of pipes even through coatings or clad to detect external or internal pits with limited to now required preparation. The high resolution new generation MagControl sensors allow with clear defect signal analysis a high detection sensitivity at the wall inside and outside with direct distinction of defects either side and a separation of indications as conclusions or laminations. The fast scanning and the direct indication distinction permits a high inspection reliability at fast scan mode. The integrated magnetic system for the double function of inspection and holding force allowing the tool to be independent in operations in full 360 degree of pipes. Integrated high resolution encoders support the inspection data with exact position of defect findings and corrosion mapping.

Features

- ✓ Inspection of Carbon Steel, Duplex or SuperDuplex material to wall thickness of ½" (13mm)
- ✓ Inspects Pipes, Vessels or structures through up to 6mm external coatings and up to 3mm Monel clad
- ✓ High Probability of Detection (PoD)
- ✓ Fast scanning for external and internal corrosion mapping

The MagIQ PS13 is a manual external pipe scanner incorporates multiple unique high-resolution sensor arrays and operates using high-frequency partial saturation eddy currents to enable detection and sizing of internal and external defects. The typical operations of the MagIQ PS13 is carbon steel or duplex pipe material, bare pipe, coated or clad. The scanner is versatile usable from tubular geometries concave and convex as well for flat surfaces. The hand scanner is easy and straight deployable without preparation work. The magnet double function holds the scanner against the object surface despite a lift off.

Specifications

Capabilities		Operations	
Wall thickness range	Up to 13mm (1/2 in) - higher WT on request	Operations	Standard scan in axial direction (on request circumferential direction scan)
Coating thickness range	Up to 6 mm (thicker if thinner pipe wall).		
Clad thickness range	Up to 2 mm (stainless, Monel)	Deployment	Manual scan (motor drive on request)
Diameter range	4 in to flat	System	
Depth threshold for detection	Defects $\geq 10\%$ WT wall loss (external or internal)	Diameter	4" to flat
Defect detection	Smallest calibration defect detection setup: From 3-5 mm diameter at depth threshold of 10% - 20%WT for far side wall defects	Sensors (MagControl EC)	4 to 8 sensors in circumference with 150mm scan width
Accuracy	+/- 5-10% of nominal wall thickness	Magnetization unit	Electromagnet
Defect location – ID/OD separation	External from internal defects with external/internal mapping report	Electronics	Multichannel, MultiFrequency, Multi Mode EddyVision 3.0
Depth Rating	0 (subsea application on request)	Umbilical	2 x 30m standard (longer length on request)
Dimensions		Software	
Weight	15 kg	Data Acquisition	InnetiQs MartiQs Software Recorded inspection data in high resolution dbase format is transferred by data logger.
L x W x H	313 x 225 x 129 mm	Reporting Software	C-Scan Mapping with differentiation of external / internal mapping