

MagIQ PS19





MagControl Pipe Inspection System

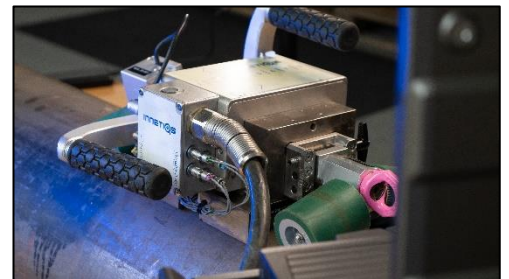
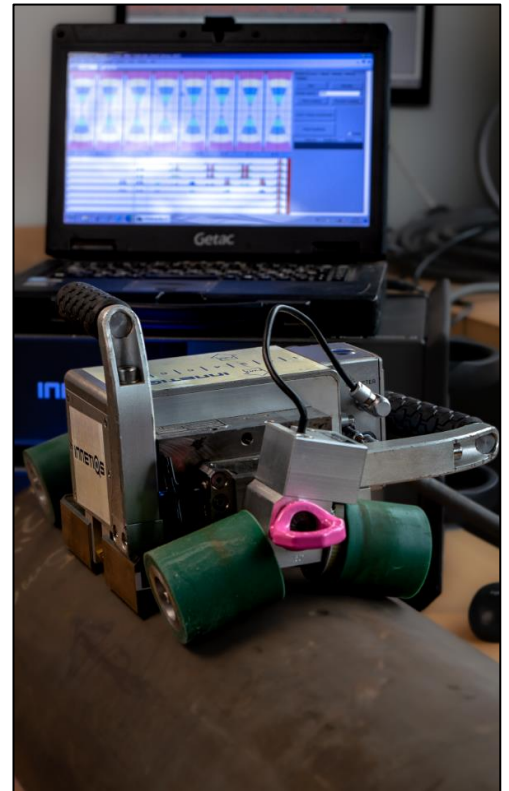
InnetiQs offers the MagIQ PS19 Scanning System which enables external applied inspection of bare, coated or clad pipes. The high sensitive MagControl partial saturation eddy current technique allows fast scanning of pipes even through coatings or clad to detect external or internal pits with limited 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 $\frac{3}{4}$ " (19mm)
-  Inspects Pipes, Vessels or structures through up to 10mm external coatings and up to 3mm Monel clad
-  High Probability of Detection (PoD)
-  Fast scanning for external and internal corrosion mapping



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The MagIQ PS19 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 PS19 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.

With dedicated Sensors integrated, the MagIQ PS19 allowing the inspection of flexible risers to detect within the tensile armour layers corrosion, cracks, wire breaks or misalignment used above the splash zone.

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	
Wall thickness range	Up to 19mm (3/4 in) - higher WT on request
Coating thickness range	Up to 8 mm (thicker if thinner pipe wall), Flexible risers 15 mm total outer sheath.
Clad thickness range	Up to 3 mm (stainless, Monel)
Diameter range	4 in to flat
Depth threshold for detection	Defects $\geq 10\%$ WT wall loss (external or internal)
Defect detection	Smallest calibration defect detection setup: From 4-6 mm diameter at depth threshold of 10% - 20%WT for far side wall defects
Accuracy	+/- 5-10% of nominal wall thickness
Defect location – ID/OD separation	External from internal defects with external/internal mapping report
Depth Rating	0 (subsea application on request)

Operations	
Operations	Standard scan in axial direction (on request circumferential direction scan)
Deployment	Manual scan (motor drive on request)

System	
Diameter	4" to flat
Sensors (MagControl EC)	8 to 16 sensors in circumference with 150mm scan width
Magnetization unit	Electromagnet
Electronics	Multichannel, MultiFrequency, Multi Mode EddyVision 3.0
Umbilical	2 x 30m standard (longer length on request)

Dimensions	
Weight	27 kg
L x W x H	359 x 233 x 191 mm

Software	
Data Acquisition	InnetiQs MartiQs Software Recorded inspection data in high resolution database format is transferred by data logger.
Reporting Software	C-Scan Mapping with differentiation of external / internal mapping