

MagIQ FS15





MagControl Tank Inspection System

InnetiQs offers the MagIQ FS15 Tankfloor Scanning System which enables the inspection of coated or non-coated floors with low and heavy wall thickness. The high sensitive MagControl partial saturation eddy current technique allows fast scanning of the floorplates to detect surface or underside pits, corrosion or other critical defects at the plates. The floor scanner design allows to inspect next to the tank shell and next to the plate welding lines with high detection of corrosion issues within the complex areas.

The high resolution new generation MagControl sensors allow with clear defect signal analysis a high detection sensitivity at the floor surface and underside 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.

Integrated high resolution encoders support the inspection data with exact position of defect findings and corrosion mapping.

FEATURES

-  Inspection of Carbon Steel, Stainless Steel or Aluminum tank floor plates to wall thickness of 17mm
-  Inspects tank floors or other plates through up to 10mm coatings
-  High Probability of Detection (PoD)
-  Fast scanning for surface and underside corrosion mapping



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The MagIQ floorscanners are capable to scan in high speed and high defect detection mode. Based on the partial saturation eddy current principle, the next generation floor scanners enable the detection of topside and underside corrosion in coated and uncoated tank floors of both ferrous and non-ferrous materials.

The dynamic MagControl next generation technique utilises Eddy Current in combination with a direct current magnetic field. This technique has been proven in the industry to be superior to techniques like Magnetic Flux Leakage System.

With its dedicated colour mapping and reporting software, accurate and reliable inspection results are provided in real-time in the form of an extensive colour overview of the condition mapping and C-Scan report.

Specifications

General		Power	
Dimension	L 630 x W 310 x H 160mm	Outside of the tank	110V – 250V AC
Weight	65kg (disassembled in single units)	Inside the Tank	36V DC
No. Sensors	8 – 16	Control Unit outside	Dim. 500mm x 400mm x 200mm , 14kg
Scanning width	300mm	Electronics	
Wall thickness range	Up to 17mm	Inspection	Multiple channel eddy current system with multiple channel multiplexer electronics integrated inside the scanner
Magnetic System	Steerable DC Magnet	PC	Ruggedized laptop for single person operations set up at scanner arm, optional separately operated
Arm Unit	with integrated drive and speed control Arm changeable in height and position against scanner head	Software	
Umbilical	Light weight, 3 x 30m	Data Acquisition	InnetiQs MartiQs Software Recorded inspection data in high resolution d-base format is transferred by data logger.
		Reporting Software	C-Scan Mapping with differentiation of external / internal mapping