

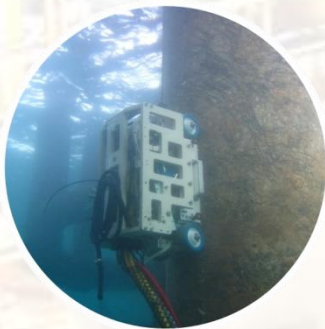
# Riser, Caisson & Conductor Inspection

## MEC-MPS200+ Scanner



### Overview

The marinised MEC-MPS200+ Scanner has a stronger magnetic system and supports the non-intrusive splash zone inspection of risers, caissons, conductors and structures with wall thickness up to 1" and through coating of up to 15mm Neoprene and 4mm Monel clad.



It is based on the next generation MEC (Magnetic Eddy Current) technique which is a further development of the fast corrosion screening SLOFEC™ technique. By operating on high frequency magnetic field controlled Eddy Current with specially developed Eddy Current sensors, the MEC technique offers enhanced inspection capabilities including the detection and sizing of internal and external defects at higher wall thickness and coating range.

The marinised MEC-MPS200+ Scanner enables the smooth transition of the inspection in air directly into the splash zone without a break in the continuity of remote controlled inspection.



The capabilities of MEC-MPS200+ are:

- High sensitivity in the detection of external and internal corrosion and defects, including through the most typical coating thicknesses
- High inspection speed with a typical coverage of 10 – 20 m/min
- Ability to inspect at various subsea depths
- Minimal surface preparation prior to inspection due to its electromagnetic technique

### MEC-MPS200+ Scanner

The marinised MEC-MPS200+ scanner enables the detection of internal and external corrosion and defects in risers, caissons, conductors and structures while scanning externally. A change-out of the curvature adaptation allows the MEC-MPS200+ Scanner to be used for internal inspection.

Its subsea deployment is flexible as it can be operated from the installations, driving downwards along the risers, caissons and conductors or be deployed by divers. The scanning is performed at fast speed either horizontally or vertically along the pipes as well as on horizontal pipelines on the seabed.

The signal data is transferred in real time via the umbilical to the inspection computer located on the support vessel or on the installation to provide instantaneous inspection results. The advanced reporting software utilises a combination of comprehensive C-Scan mapping of the internal and external wall condition, individual defect sizing analysis as well as matrix data to provide reliable information about remaining wall thickness, thus forming a robust basis for asset integrity assessment.

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### Technical Specifications

EXTERNAL DEPLOYMENT	
From Installation	By rope access support, running through the splash zone
Subsea Deployment	Only where required - supported by diver (ROV on request)
CAPABILITIES	
Wall Thickness Range	Up to 25.4 mm (1") – Higher WT on request
Coating Thickness Range	Up to 15 mm
Diameter Range	8" to flat
Depth Threshold for Detection	Defects $\geq$ 10% WT wall loss (external or internal)
Defect Detection	Smallest calibration defect detection setup; From 3 – 5 mm diameter at depth threshold of 20% WT for far side wall defects
Accuracy	$\pm$ 5% – 10% of nominal wall thickness
Defect Separation	External from internal defects with separate external / internal mapping report
DIMENSIONS	
Depth Rating	300 metre water depth (deeper rating on request)
Weight	80 Kg in air, approx. 20 Kg in water (depending on buoyancy setup)
Sizes (L x W x H)	500 mm x 280 mm x 300 mm
Sensors (MEC)	8 sensors in circumference with 180 mm scan width
Magnetisation Unit	Electromagnet
Camera	2x
Umbilical	Via standard winch – 350 metre (longer length on request)
ACCESS REQUIREMENTS	
Required Clearance	Dependent on the tool setup; 500 mm of external space is required to allow for axial scanning
Coating	Coating is not required to be removed for the inspection
Marine Growth	Heavy marine growth is required to be cleaned off. Offered by Innospection either with separate or integrated advanced cleaning system
Reporting	
Reporting Software	InnospectIT Software – Version 2.9 Recorded inspection data in high resolution d-base format is transferred by data logger

#### Innospection Limited

Unit 1, Howemoss Avenue, Kirkhill Industrial Estate, Dyce, AB21 0GP, Aberdeen, United Kingdom

Tel : +44 (0)1224-724744

Fax : +44 (0)1224-774087

Web : [www.innospection.com](http://www.innospection.com)

Email : [info@innospection.com](mailto:info@innospection.com)

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