



Overview

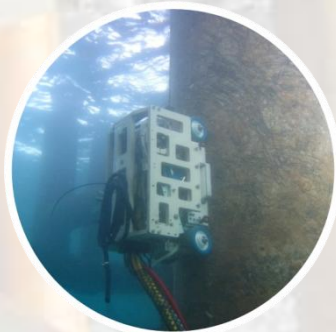
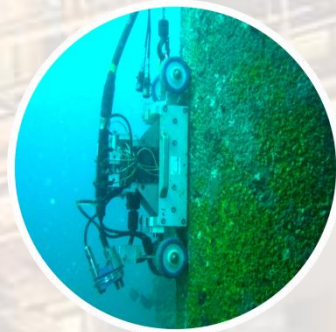
The MEC-MPS200+ marinised scanner has a stronger magnetic system and supports the non-intrusive splash zone inspection of risers, caissons and conductors with wall thickness up to 30mm and through coating of up to 15mm Neoprene and 4mm Monel clad.

Based on the Magnetic Eddy Current (MEC) technique which is the next generation and further development of the SLOFEC technique, the MEC-MPS200+ marinised scanner has high defect detection sensitivity and provides comprehensive data on external and internal corrosion and defects.

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

The MEC-MPS200+ marinised scanner allows the detection of internal and external corrosion and defects in risers, caissons and conductors while scanning externally. A change-out of the curvature adaptation enables 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 carried out at fast speed either horizontally or vertically along the pipes as well as on horizontal seabed pipelines.

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. This includes high resolution inspection images on the corrosion issues and coloured condition mapping of external and internal wall defects.

Technical Specifications

EXTERNAL DEPLOYMENT	
Vertical	From the installation by rope access support, running through the splash zone
Vertical or horizontal	Supported by diver (ROV on request)
CAPABILITIES	
Wall Thickness Range	Up to 30 mm
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	5% - 10% of detected defect wall loss
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 200 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

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

Email : info@innospection.com