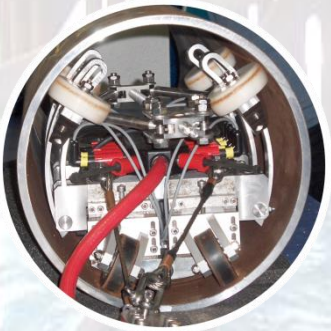
Riser, Caisson & Conductor Inspection
MEC-MPS200



Overview

The MEC-MPS200 marinised scanner supports the non-intrusive inspection of risers, caissons and conductors in the splash zone areas for wall thickness up to 26mm and through the coating of up to 8mm.

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.

This 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 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 carried out at fast speed either horizontally or vertically along the pipes.

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.

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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 26 mm
Coating Thickness Range	Up to 8 mm
Diameter Range	6” to 42”
Depth Threshold for Detection	Defects ≥ 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	47 Kg in air, approx. 10 – 20 Kg in water (depending on buoyancy setup)
Sizes (L x W x H)	350 mm x 250 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

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