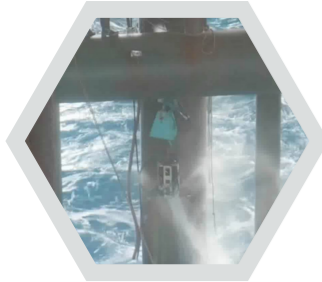


RISERS, FLEXIBLE RISERS, CAISSONS AND CONDUCTORS INSPECTION



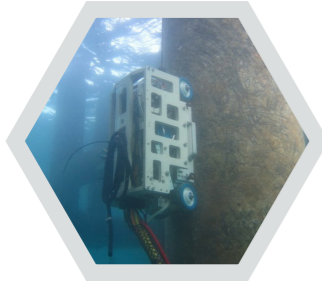
The marinised MEC™-MPS200+ Scanner supports the internal and external splash zone inspection of risers, flexible risers, caissons, conductors and structures with wall thickness up to 1" and through coating of up to 15mm Neoprene and 4mm Monel clad.

It is based on the next generation MEC™ (Magnetic Eddy Current) technique. 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 MEC™-MPS200+ Scanner enables the integration of an Ultrasonic sensor array working in parallel to the Eddy Current sensors to provide additional information relevant to the asset integrity. It also allows the integration of an advanced cleaning system for the simultaneous removal of marine growth during the inspection operation.

The capabilities of MEC™-MPS200+ with integrated Ultrasonic and advanced cleaning system are:



- ✔ High sensitivity in the detection of internal and external corrosion and defects through higher wall thickness with the integrated UT sensor array.
- ✔ Smooth transition into the splash zone without a break in the continuity of remote controlled inspection.
- ✔ Ability to work at various subsea depths.

MEC™ - MPS200+ SCANNER

The marinised MEC™-MPS200+ Scanner enables the detection of internal and external corrosion and defects in risers, flexible risers, caissons, conductors and structures 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, flexible risers, caissons and conductors or be deployed by divers. The scanning is performed at a high speed of approx. 10-20m/min 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.

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 25.4mm (1") - Higher WT on request |
| Coating Thickness Range | Up to 15mm |
| Diameter Range | 8" to flat |
| Depth Threshold for Detection | Defects ≥ 10% WT wall loss (external or internal) |
| Defect Detection | Smallest calibration defect detection setup; From 3 - 5mm diameter at depth threshold of 20% WT for far side wall defects |
| Accuracy | ± 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 | 80kg in air, approx. 20kg in water (depending on buoyancy setup) |
| Sizes (L x W x H) | 500mm x 280mm x 300mm |
| Sensors (MEC) | 8 sensors in circumference with 180mm scan width |
| Sensors (UT) - Optional | Multiple UT Sensor Array 8 or 16 UT channels operating at 3 or 5 MHz |
| Magnetisation Unit | Electromagnet |
| Camera | 2x |
| Umbilical | Via standard winch - 350 metre (longer length on request) |
| ACCESS REQUIREMENTS | |
| Required Clearance | Dependent on the tool setup; 500mm 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 Sonomatic either with separate or integrated advanced cleaning system. |

QA AND HS&E

Sonomatic operate under an integrated QHSE management system and are committed to the highest quality and safety of service provision | ISO 9001: 2015: 00007140 | ISO 14001:2015:00037371 | ISO 45001:2018:00037372 | ISO 17020: 2012: 4276 | Achilles FPAL Verified: 076712 | SEQual 1988 | British Safety Council Member: S0388440 |



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