DATA SHEET

RISERS, FLEXIBLE RISERS, CAISSONS & CONDUCTORS **INSPECTION**

MEC[™] - MPS200 SCANNER WITH INTEGRATED ULTRASONIC AND ADVANCED CLEANING SYSTEM

THE PURPOSE

This document is composed to assist our clients and the supply chain with a high-level understanding of the benefits and services associated with our Risers, Flexible Risers, Caissons & Conductors Inspection capabilities using the MEC[™]-MPS200 Scanner with Integrated Ultrasonic and Advanced Cleaning System.













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SONOMATIC



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.

TECHINCAL SPECIFICATIONS

EXTERNAL DEPLOYMENT	
From Installation	By rope access support, ru
Subsea Deployment	Only where required - supp
CAPABILITIES	
Wall Thickness Range	Up to 25.4mm (1″) – Higher
Coating Thickness Range	Up to 15mm
Diameter Range	8" to flat
Depth Threshold for Detection	Defects≥10% WT wall loss
Defect Detection	Smallest calibration defec From 3 – 5mm diameter at
Accuracy	±5% – 10% of nominal wall
Defect Separation	External from internal defe
DIMENSIONS	
Depth Rating	300 metre water depth (de
Weight	80kg in air, approx. 20kg in
Sizes (L x W x H)	500mm x 280mm x 300mm
Sensors (MEC)	8 sensors in circumference
Sensors(UT)-Optional	Multiple UT Sensor Array 8 or 16 UT channels operati
Magnetisation Unit	Electromagnet
Camera	2x
Umbilical	Via standard winch – 350 m
ACCESS REQUIREMENTS	
Required Clearance	Dependent on the tool setu axial scanning
Coating	Coating is not required to b
Marine Growth	Heavy marine growth is red with separate or integrated

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 |

unning through the splash zone

ported by diver (ROV on request)

WT on request

s (external or internal)

ct detection setup;

depth threshold of 20% WT for far side wall defects

thickness

ects with separate external / internal mapping report

eeper rating on request)

n water (depending on buoyancy setup)

l

e with 180mm scan width

ting at 3 or 5 MHz

netre (longer length on request)

up; 500mm of external space is required to allow for

be removed for the inspection

quired to be cleaned off, offered by Sonomatic either advanced cleaning system.



KEY CONTACTS

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