

DATA SHEET

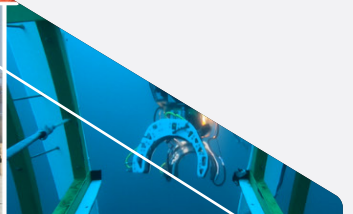
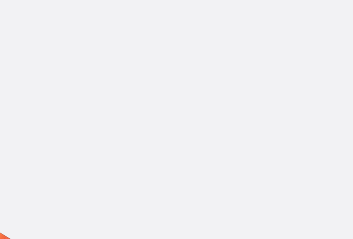
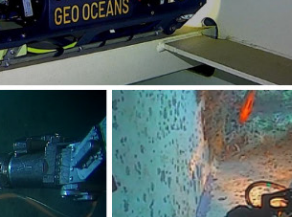
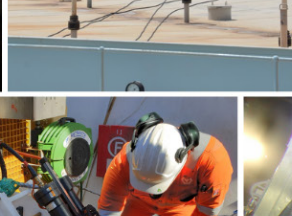
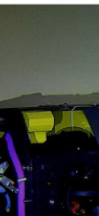
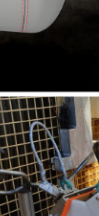
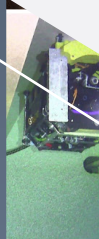
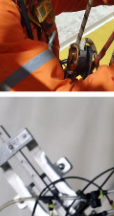
RAPTOR II

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 Raptor II.



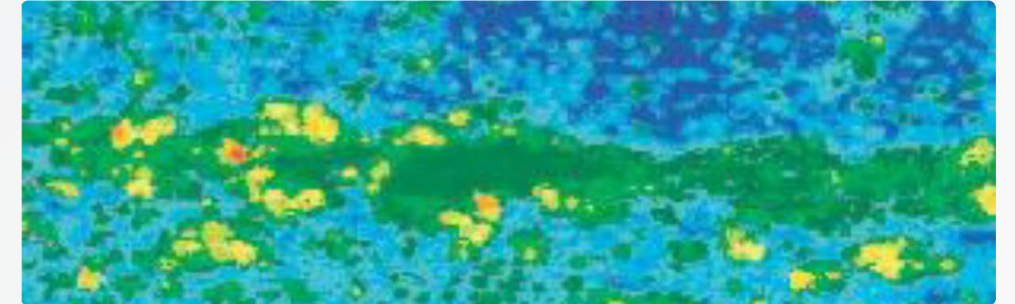
SONOMATIC



RAPTOR II

The Raptor II is a significant update to Sonomatic's field proven Raptor automated ultrasonic scanner. It retains the industry leading ultrasonic performance and includes a range of improvements in mechanical performance. These provide increased scanning speeds and faster, more straightforward deployment on site. As with the original scanner the main application of Raptor II is for rapid corrosion mapping of large areas, as would typically be a requirement in Non-Intrusive Inspection (NII) of pressure vessels and for storage tank wall inspection.

KEY FEATURES



Accurate ultrasonic corrosion mapping with industry leading performance as validated by the HOIS Joint Industry Project.

Ability to deploy 0 degree corrosion mapping, TOFD, Multiskip and CHIME.

Rapid coverage inspections, suitable for vessel NII and tank wall inspection.

Integrates with Sonomatic's Microplue ultrasonic systems.

Real time imaging and review of data during inspection.

Up to 16 channels of ultrasonic data, with storage of full waveforms for subsequent processing.

Data suitable for statistical analysis, e.g. in support of sample inspection approaches.

Corrosion mapping and TOFD screening data used to automatically produce composite corrosion maps.

Data suitable for Fitness for Service Assessments including Level 3 assessment based on finite element analysis.

Immersion probe for water gap inspection.

Capability to drive axially and circumferentially on vessels, piping and tanks, even to small diameters.

Steerable during the inspection.

Cross arm widths (defining corrosion mapping coverage) between 500mm and 1200mm.

Light weight for ease of deployment.

Strong magnetic wheels, allowing travel on vertical and uneven surfaces.

Ability to operate with an umbilical length of 25m with water supply to a height of 20m.

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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