

SUCCESS STORY

UNDER TANK CORROSION MAPPING SCANNER

THE PURPOSE

This document is composed to assist our clients and the supply chain to better understand our capabilities and experience within the NII sector.

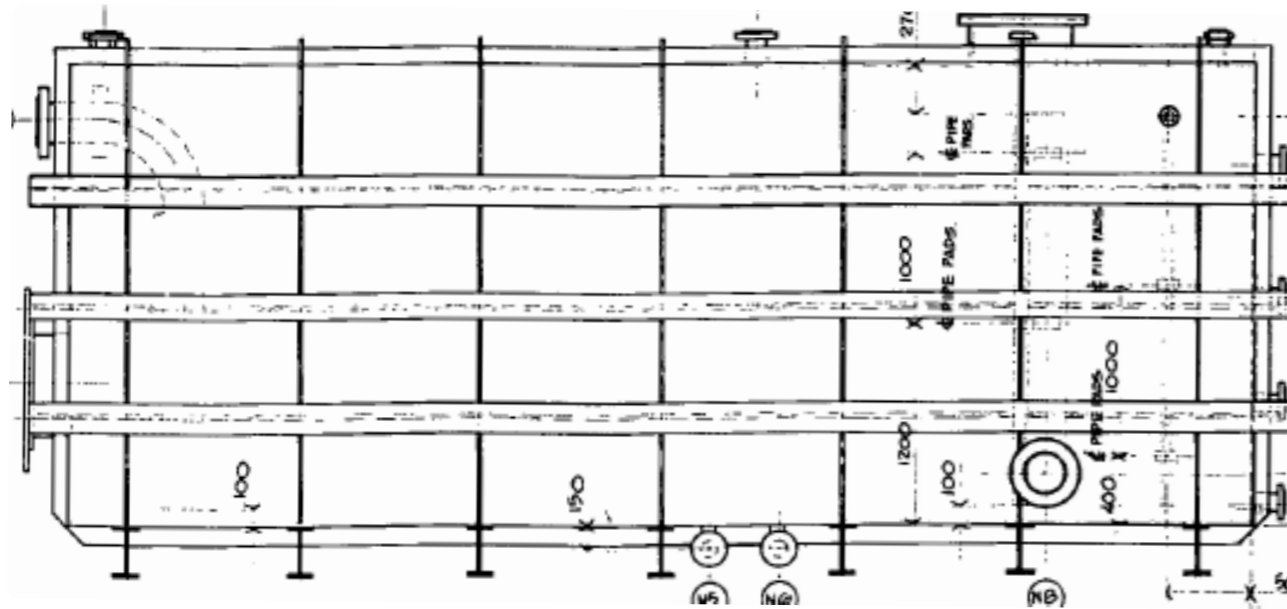


SONOMATIC



UNDER TANK CORROSION MAPPING SCANNER

Sonomatic was requested by its client to provide an inspection solution to enable the inspection of the underside of a square tank, using corrosion mapping. The tank configuration included cross members on the underside which required negotiating remotely, making this inspection more challenging. Sonomatic's Equipment development team, in conjunction with the Technical Support Group, used current Sonomatic in-house inspection technology and software to provide a solution to this inspection challenge.



CHALLENGES

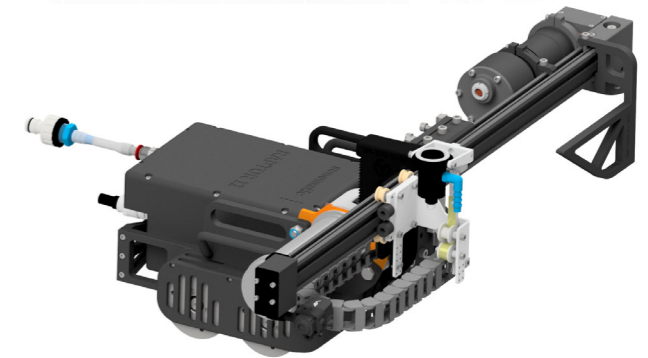
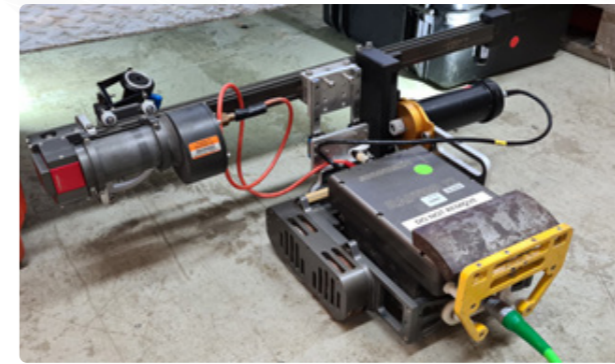
Existing inspection methods employed by the assets incumbent inspection company were limited to simply reaching in and obtaining random thickness measurements at arm's length, this approach fell short of achieving the required coverage, quantity and quality of data required in order to make integrity assessments and decision on.



- ✔ Access the underside of the tank with automated scanning system.
- ✔ Negotiate underside cross members remotely while scanning.
- ✔ Carry out full corrosion mapping of all required inspection areas.

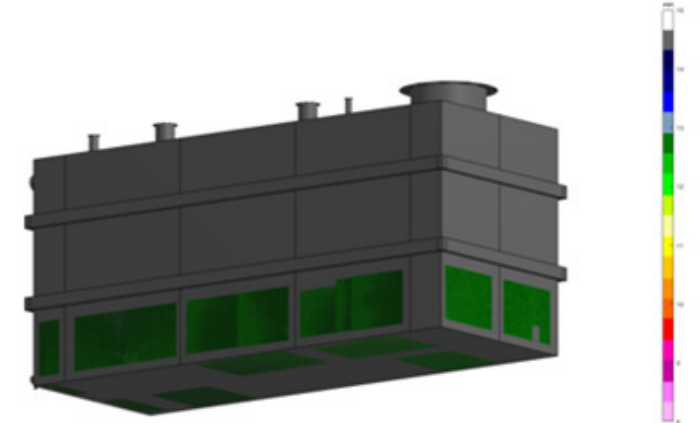
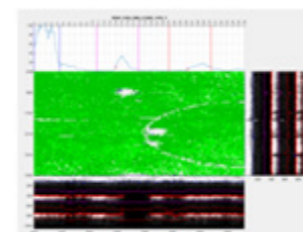
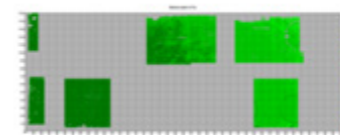
SOLUTION AND OUTCOME

The Sonomatic Equipment Engineering department, utilised our Automated Fast Scanning Raptor scanner as the base for the under tank scanner. Engineering and software development were required in order to allow the scanning to be conducted upwards rather than downwards, in addition to this the requirement, being able to negotiate the underside stiffeners was built into the hardware and software design, allowing the scanning arm to raise and lower itself remotely while negotiating these stiffeners and achieve suitable scanning coverage.



As in all Sonomatic Non-Intrusive Inspection projects, inspection data is captured live and transposed in real-time, directly onto the 3D generated component model using Sonomatic's SIMS programme. This dramatically reduces the data management and reporting time associated with these inspection campaigns.

SIMS integrates directly with Sonomatics advanced inspection systems and scanners, allowing live build up of composites as the data is collected. This allows advanced waveform and data analysis capabilities and population of the composite directly onto live 2D & 3D models.



CLIENT FEEDBACK

The client expressed their feedback, compliments and gratitude to Sonomatic for providing a solution to this inspection challenge which allowed them to progress evaluation of the tank, which otherwise would not have been completed until an internal inspection could be carried out at significantly higher cost to asset productivity and safety during shutdown.

CONTACTS

EUROPE AND AFRICA

Stuart Ley

Topside Project Manager

T: +44(0)1224 823 960

E: Stuart.Ley@sonomatic.com

Graham Marshall

Subsea Project Manager

T: +44(0)1224 823960

E: Graham.Marshall@sonomatic.com

Danielle Gunns

Project Delivery Manager (Warrington)

T: +44(0) 1925 414 000

E: Danielle.Gunns@sonomatic.com

WORLDWIDE

Australia & NZ

Alex Cesan - General Manager Australia & NZ

T: +61 498 442 666

E: Alex.Cesan@sonomatic.com.au

Americas

Esteban Cesan - General Manager Americas

T: +1 832 977 0303

E: Esteban.Cesan@sonomatic.com

South East Asia

Zach McCann - Region Manager

T: +61 404 797 670

E: Zach.McCann@sonomatic.com.my

Middle East

Gordon Reid - Region Manager

T: +9712 658 0708

E: Gordon.Reid@sonomatic.com

