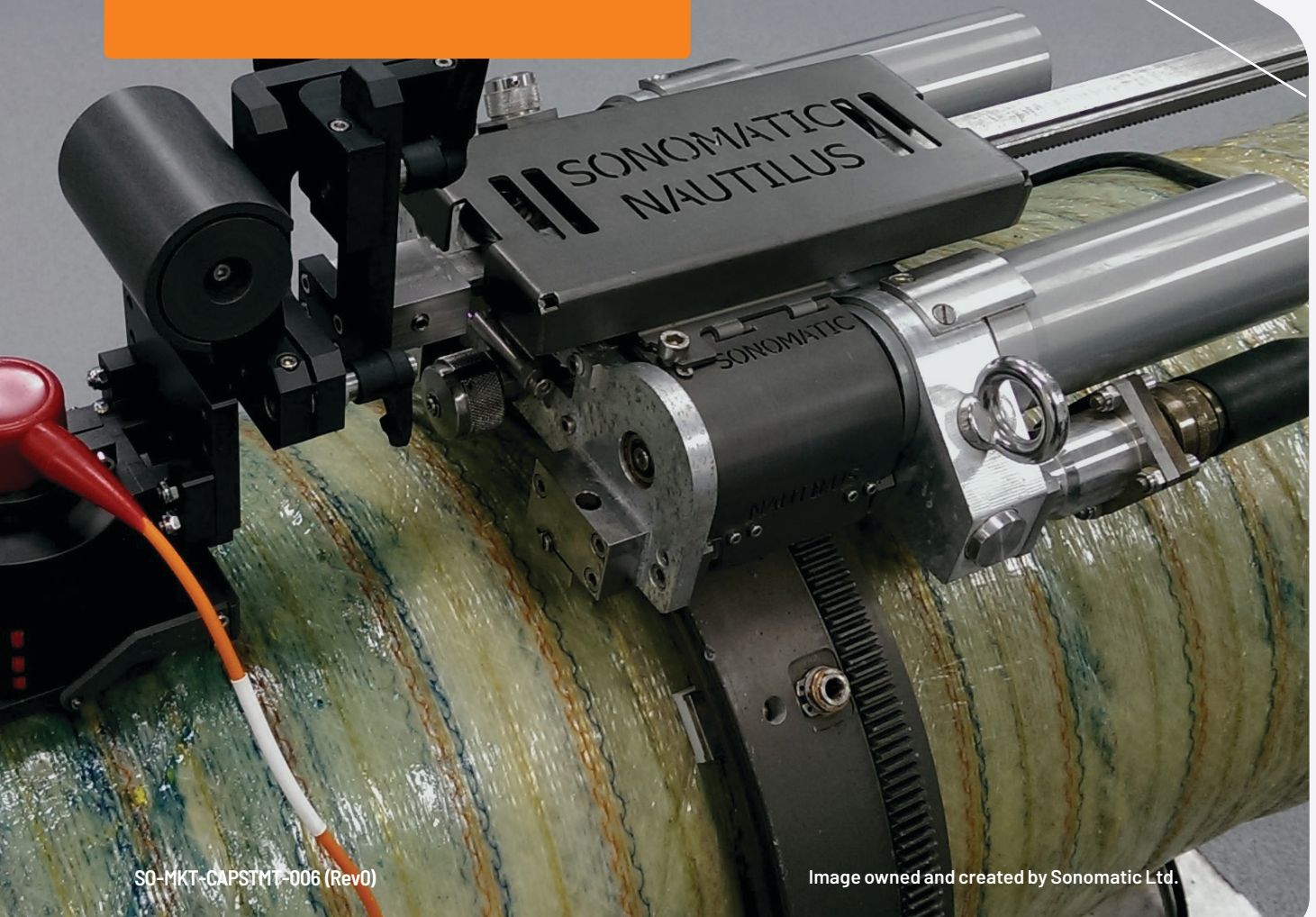


CAPABILITY STATEMENT

TOPSIDE SPECIALISED INSPECTION

THE PURPOSE

This document is composed to assist our clients and the supply chain to understand our group operating structure along with a high-level understanding of the benefits, services and specialist packages associated with our Topside Specialised Inspection capabilities.



WHO WE ARE



Sonomatic is part of a group of companies, an international consortium that delivers a comprehensive range of asset integrity, inspection, maintenance and specialist access services across a wide range of industries and sectors.



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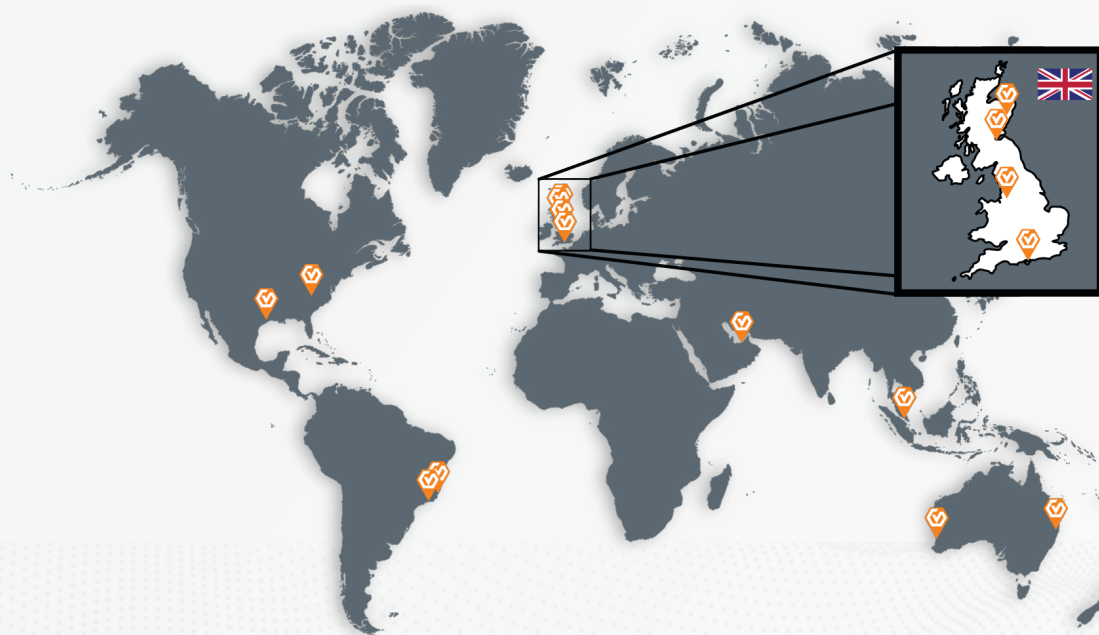


Sonomatic specialise in the design, development and application of Non-Destructive Testing (NDT) inspections. Since the company's formation in the 1980s, we have combined these NDT processes with integrity engineering capabilities to provide fully integrated inspection packages that directly meet the needs of the client.

Bringing innovative bespoke inspection solutions to the market through in-house development of equipment, software and robotics, Sonomatic resides as the global leader for ROV-deployed subsea inspection and Non-Intrusive Inspection (NII) technologies.

Our team is committed to providing accurate, proactive inspection and engineering solutions that enable clients to manage the integrity of newly constructed assets and make informed decisions crucial to the safe continued operation of maturing ones.

GLOBAL FOOTPRINT



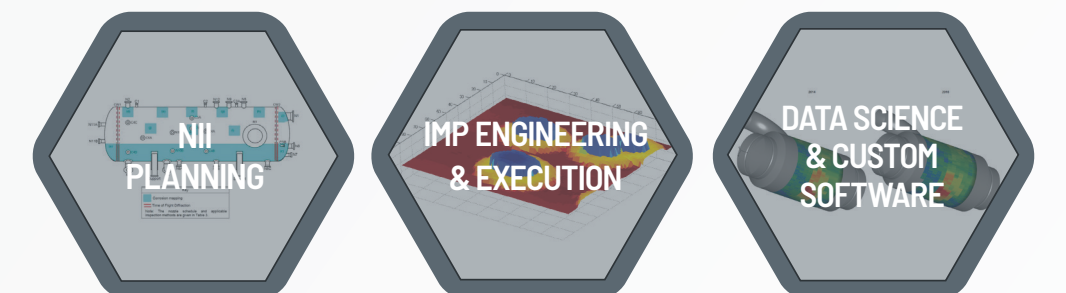
WHAT WE DO

Sonomatic provide integrity engineering and NDT services at every stage of a project's life cycle. NDT subject matter experts assess each scope of work individually to ensure that the inspection solution(s) will meet the desired deliverables. If a unique solution is required, our R&D department can design and manufacture inspection technologies and scanners that will exactly meet our client goals. Our integrity service offerings provide industry leading inspection and engineering evaluations of the inspection data to enable recommendations for repeatable inspection programmes.

ONSHORE/ TOPSIDE



INTEGRITY SERVICES



SUBSEA



RESEARCH & DEVELOPMENT



TOPSIDE

For more than three decades, Sonomatic has set the standard for the provision of specialist topside inspection services. With an established reputation for introducing, developing and advancing specialist inspection techniques, Sonomatic is recognised as a leader in delivering inspection technologies used across the world.

Using state-of-the-art, internally developed inspection hardware and software, combined with highly experienced and technically competent inspection engineers, Sonomatic delivers world-class specialist inspection services across the oil and gas, petrochemical, nuclear and renewable energy sectors.

Sonomatic also specialises in inspection technique research and development, particularly within the technical grey areas of NDT where defects, materials, geometries or inspection requirements fall beyond the practical limits of conventional techniques, established codes and industry standards. In these situations, we develop, validate and deploy bespoke inspection methodologies to provide reliable and defensible inspection data.

Our inspection technologies integrate seamlessly with our engineering and integrity support services, delivering advanced data management and analysis. This supports class-leading Non-Intrusive Inspection strategies and other critical in-service inspection applications, helping operators manage risk, improve inspection effectiveness and extend the safe working life of their assets.

INSPECTION TOOLS

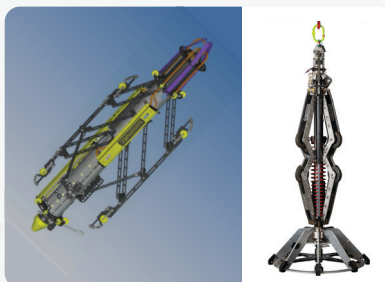
STINGRAY SCANNER



MEC™ SCANNER



INTERNAL CAISSON TOOLS



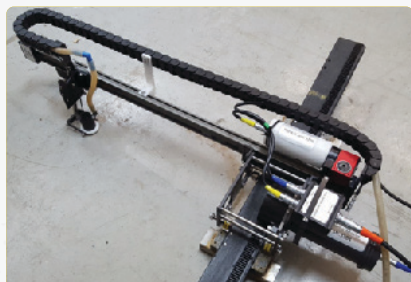
MANSCAN TOFD/PA



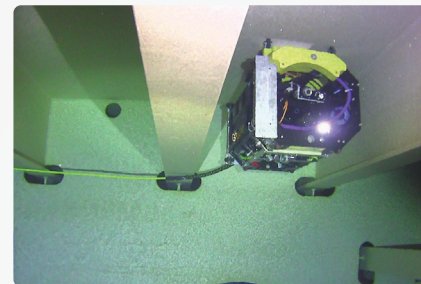
NAUTILUS



FAST XY SCANNER



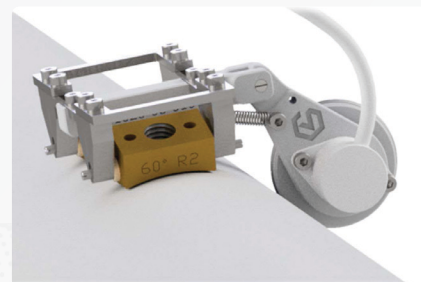
I-COT



CHIME BELT SCANNER

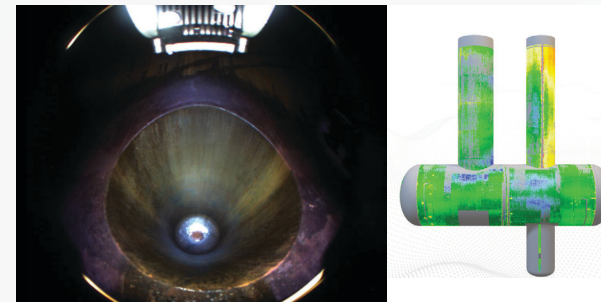


WRE H-FRAME



CASE STUDIES

KEY SONOMATIC SUCCESS STORIES



REMOTE CORROSION MAPPING OF A BURIED VESSEL

Sonomatic developed a fully remote internal inspection solution using robotic video and corrosion-mapping systems deployed through the vessel's top nozzles, eliminating the need for manned entry. Bespoke engineering enabled safe tool deployment in confined spaces, while Microplus and SIMS technologies delivered high-quality data and detailed condition models. Despite access and coverage challenges, the approach achieved full inspection requirements, confirmed the vessel's fitness for service, and set the stage for future enhancements in remote inspection capability.



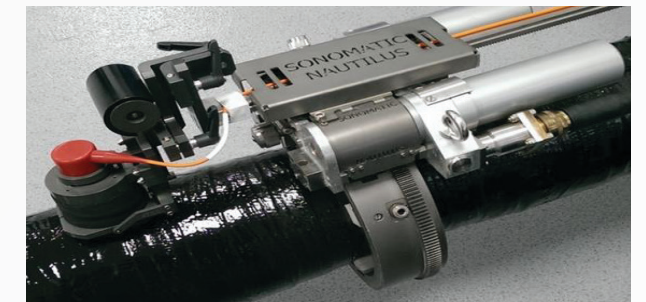
RTJ RING INSPECTION

Our client requested if we were able to conduct an in-service inspection of Ring Type Joints whilst in-service due to cases on their asset where joint sealing rings were suffering from internal corrosion. Sonomatic developed a technique and methodology utilising specialised phased array techniques and specially made encoded scanner to inspect the available ring surface between the joined flanges. Sonomatic were able to confirm if any ring joints were suffering from internal corrosion. This saved the client in shutdown and isolation costs associated with opening up the joints to inspect visually.



CONFINED SPACE CORROSION MAPPING

Sonomatic were asked to help provide a solution to the requirement for confined spaces and the need to inspect dome ends on vertical mounted vessels when carrying out NII surveys. With a drive to mitigate person entry for health and safety reasons Sonomatic developed the EDRIS system. End Dome Robotic Inspection System. EDRIS allows the NII requirements to be met for NII without the need for person entry into the confined space.



DRS COMPOSITE REPAIR INSPECTION

The aim of the validation was to determine the capabilities of DRS in penetrating the repair and measuring the thickness of the underlying steel by comparison with ultrasonic (UT) corrosion mapping data collected prior to the application of the repair. The validation sample was a 30", schedule 40 pipe with extensive internal natural corrosion. The UT and DRS inspections were carried out using Sonomatic's automated Nautilus scanner, a conventional UT transducer and a custom DRS transducer. The scans were collected in 1mm increments axially and 4mm circumferentially. They were then processed to create maps showing the steel thickness.

SERVICES & TECHNIQUES

CORROSION UNDER PIPE SUPPORT (CUPS)

Sonomatic's Specialist Field Services employs 3 ultrasonic pipe support techniques for CUPS inspection, selecting the appropriate technique based on factors such as material thickness and component diameter.

Multiskip – The Multiskip technique addresses the challenge of assessing inaccessible areas prone to corrosion, like pipe and vessel supports, without the need for costly equipment lifting. It is effective for detecting both internal and external corrosion damage and estimating corrosion depth. Additionally, it serves as a rapid screening tool for identifying internal corrosion in pipelines, with anomalies further evaluated through corrosion mapping.

CHIME – The challenge for owners and operators is to prolong equipment life and detect corrosion early, particularly in large areas like production vessels and long pipelines where conventional ultrasonic methods can be time-consuming and expensive. The CHIME technique offers an efficient solution by enabling large area, single-pass screening without the need for costly shutdowns. It can be applied to various structures, eliminating the need for dismantling and allowing for the inspection of inaccessible areas.

SH-EMAT – Sonomatic have developed an electromagnetic acoustic transducer (EMAT) system that uses horizontally polarised shear (SH) waves to inspect thinner-walled pipes. This applies to inspection at pipe supports and also for rapid screening of piping for detection of corrosion.

NON-INTRUSIVE INSPECTION (NII)

Sonomatic has pioneered the formal industry approach for Non-Intrusive Inspection (NII) and has led the implementation of this inspection strategy on sites around the world.

NII is a safe and viable alternative to conventional internal visual inspection (IVI) of pressure vessels that, when executed effectively, offers an equivalent or improved level of assurance, provides significant cost benefits, and eliminates the need for Confined Space Entry (CSE). Sonomatic are key authors of the HOIS recommended practice for NII, published as HOIS-RP-103, which details how the NII process should be used.

HIGH TEMPERATURE HYDROGEN ATTACK (HTHA)

Sonomatic has over 30 years of experience with pressure systems inspections for HTHA, including validation through metallography. We continue to invest a lot of time and energy into the development of HTHA inspection. The approach we adopt involves fine-tuning the ultrasonic set-up to the material, utilising the highest frequency the material will support. We look for changes in the acoustic scatter caused by changes in the metallurgical structure.

CAISSON/RISER/CONDUCTOR INSPECTION

Sonomatic specialises in providing comprehensive inspection and integrity services for offshore risers, caissons and conductors. These critical tubular structural and pressure elements are essential for the effective operation of offshore assets. Sonomatic offers both internally and externally deployed inspection approaches to ensure the integrity of these items. Our internal inspection tool, developed using industry-leading ultrasonic inspection techniques, allows for effective deployment and data capture.

One of the challenges in conducting ultrasonic inspections is inspecting corroded surfaces. Sonomatic has developed the internal inspection technology to address this challenge. This technology provides a tailored inspection survey based on the client's integrity requirements and available budget. Using advanced ultrasonic data analysis, Sonomatic can interrogate signals as if from a non-corroded surface, ensuring reliable measurements and supporting integrity management decisions.

COMPOSITE & CHALLENGING COATINGS INSPECTION

Inspection of the steel under a composite repair allows an estimation of the corrosion growth rate. Understanding the condition of the composite repairs and underlying steel means that the risk of ongoing operation is effectively managed, the cost of replacement can be deferred or avoided and production is maintained – a shutdown is not needed.

Using advanced technologies such as Dynamic Response Spectroscopy (DRS™), Magnetic Eddy Current (MEC™) and Pulsed Eddy Current (PEC), the team can accurately map corrosion, detect flaws like delaminations or disbondment, and evaluate coating performance without removing protective layers.

These techniques penetrate a wide range of difficult coatings—including composite repairs, fire protection, marine growth, insulation, and polypropylene systems—while delivering high-resolution data suitable for integrity assessments and Fitness-for-Service evaluations.

TANK CLEANING & INSPECTION

Storage tanks hold large volumes of valuable but potentially hazardous fluids, making regular inspection essential for effective integrity management. Traditional internal inspections require draining, cleaning, and manned entry—an intrusive, time-consuming process that introduces significant safety risks. Remote Internal Inspection (RII) provides a safer, more efficient alternative by enabling in-service assessment without vessel entry. With extensive experience across diverse assets and environments, Sonomatic's technicians apply advanced remote inspection techniques to deliver reliable condition data while minimising operational disruption and improving overall safety.



TECHNICAL SUPPORT GROUP

ENGINEERING CONFIDENCE THROUGH TECHNICAL EXCELLENCE

At the core of Sonomatic’s commitment to excellence in advanced inspection lies the Technical Support Group (TSG)—a dedicated team of highly experienced and qualified Level 3 NDT personnel who are instrumental in ensuring quality, reliability, and innovation across all our service offerings.

The TSG provides unrivalled technical guidance and support across the organisation, enabling Sonomatic to continuously develop and deliver leading-edge inspection technologies while maintaining the highest standards of compliance and quality assurance.

CORE FUNCTIONS OF THE TSG

- ✧ **Research and Development** – Constantly evolving and innovating advanced NDT techniques, tools, and technologies to meet industry challenges and client needs.
- ✧ **Technical Development** – Designing, testing, and refining inspection methodologies tailored to client-specific applications and industry demands.
- ✧ **Procedure Development** – Producing and maintaining detailed technical documentation and procedures that underpin service excellence and repeatability.
- ✧ **Project Support and Delivery** – Providing 24/7 global support, the TSG ensures real-time technical assistance to field teams, minimising downtime and maximising data quality.
- ✧ **QA/QC and Third-Party Compliance** – Acting as technical arbiters, the TSG ensures compliance with project specifications, international standards, and client expectations.
- ✧ **Standards and Legal Compliance** – Actively contributing to industry bodies and standards, including ASTM, ASME, API, and EEMUA, ensuring our techniques align with global best practices.
- ✧ **Direct Customer Support** – Accessible to clients for expert consultation, troubleshooting, and assurance across complex inspection scopes.

ADVANCED INSPECTION TECHNOLOGY

PURPOSE-BUILT FOR ACCURACY AND PERFORMANCE

Sonomatic’s inspection technologies are designed to maximise Probability of Detection (POD) and deliver high-quality data for accurate, confident integrity evaluations. From advanced ultrasonic inspection to custom scanner, crawler, and software systems, every component is engineered to support the integrity of critical assets without compromise.

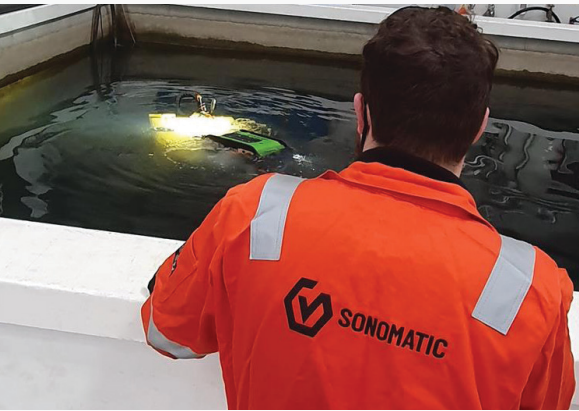


FIELD APPLICATION ENGINEERS (SPECIALISED TECHNICIANS)

TECHNICALLY TRAINED. FIELD PROVEN. GLOBALLY TRUSTED.

Sonomatic’s specialised technicians, often referred to as Field Application Engineers, are highly trained practitioners trained directly by the TSG in the deployment of advanced NDT techniques. These technicians undergo a rigorous internal training and authorisation process that far exceeds industry norms.

Many hold PCN Level 3 certifications and operate at the forefront of field application, delivering highly specialised inspection solutions across offshore, onshore, subsea, and high-spec industrial environments.



WHAT SETS OUR TECHNICIANS APART

- ✧ **TSG-Mentored Training and Assessment** – Competency-based training with continuous mentoring from senior technical specialists.
- ✧ **Proven in Complex Environments** – Deployed globally across the most challenging inspection scopes—where standard methods fall short.
- ✧ **World-Class Skill, Competence, Problem Solving** – Recognised as some of the most technically capable NDT engineers in the industry.
- ✧ **Quality and Consistency** – Operating under strict QA/QC and TSG oversight to ensure consistent, defensible data outcomes.

VALUE TO CLIENTS

Working with Sonomatic means gaining access to an integrated team of world-class inspection engineers backed by one of the most robust technical support structures in the industry.

THE RESULTS

- ✧ Faster project delivery through expert planning and support.
- ✧ Higher confidence in inspection outcomes.
- ✧ Custom solutions for unique integrity challenges.
- ✧ Assurance of compliance and quality at every stage.



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