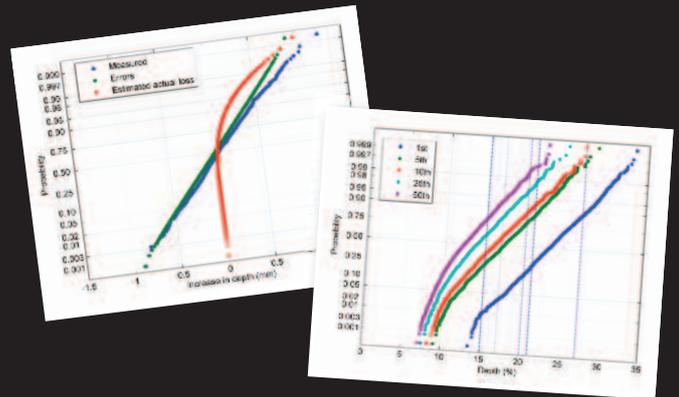


Pipeline Integrity Services

Pipelines are key assets for operator companies and their continued integrity underlies successful business performance. They are essential to production and failures or unplanned downtime can have a major impact on company revenues. Pipeline failures can also have severe safety and/or environmental consequences. Operator companies therefore place significant emphasis on assuring the integrity of pipelines. An understanding of the current and likely future condition of pipelines is central to effective integrity decision making. Sonomatic assists operators by providing a range of pipeline integrity services including innovative statistical analysis methods that ensure decision making is aligned to the real condition of pipelines.



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Sonomatic has offices in strategic global locations so we can respond quickly to customers' requirements wherever they may be situated. Our high quality products are matched only by our customer service. In addition to our field services, we offer training and consultancy at our sites in the UK or at clients' premises anywhere in the world. Sonomatic is committed to improving asset performance through applied and innovative technology; to delivering these benefits to our customers in the products and services that we provide; and to working with our customers, as value-added partners, to realise the maximum benefits of inspection technology.

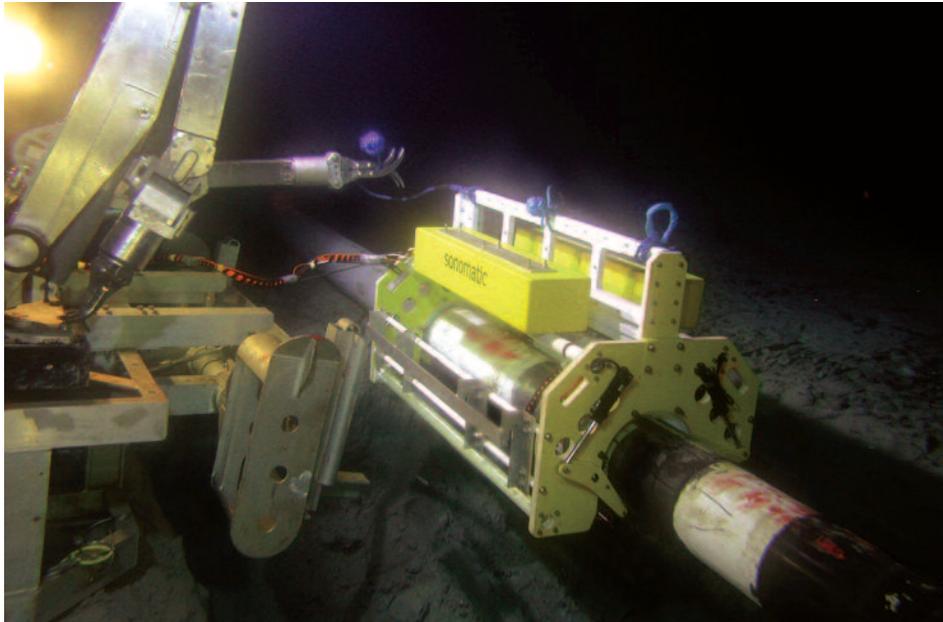
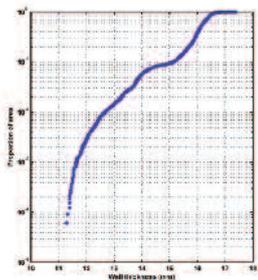
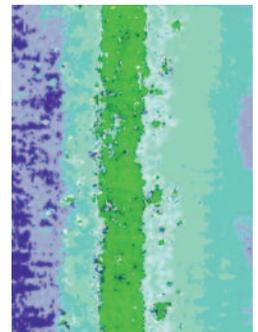
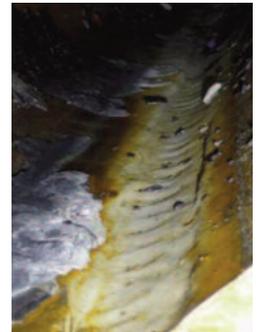
Our pipeline integrity services cover the following:

1. Analysis of ILI data. This covers statistical analysis of ILI data for measurement error analysis, defect depth characterisation and more realistic and accurate corrosion growth rate distributions.
2. External automated ultrasonic verification of ILI measurements. The inspection services can be provided subsea by diver or ROV deployed tools.
3. Integrity assessment based on ILI and external inspection data. Fitness for purpose assessments to B31G, RSTRENG, modified RSTRENG, DNV-RP-F101 and, where applicable for pipelines, to API 579. Probabilistic integrity and remaining life assessments are based on statistical analysis of the ILI data.
4. "Re-calibration" of MFL ILI datasets based on limited external inspection based on refined statistical error analysis.
5. Statistical analysis of limited coverage inspections making estimates of the condition of uninspected material based on either external UT or internal ILI data.
6. Sonomatic uses a range of statistical techniques to improve the reliability of corrosion growth

estimates by detailed analysis of the effects of measurement error on either external UT or internal ILI data.

7. Identification of inspection requirements for piggable lines. This includes pipeline corrosion risk assessment and integrity/remaining life assessment to identify the detection and sizing requirements.
8. Identification of inspection requirements for unpiggable lines. This makes use of corrosion risk assessments and statistical analysis methods to determine the inspection locations, coverage, accuracy and sensitivity requirements.

Sonomatic is the leading provider of statistical analysis in support of integrity management for upstream oil and gas producers and has developed a range of innovative methods for analysis of corrosion and inspection data. These methods offer a significantly more representative view on pipeline condition and remaining life, compared to traditional methods of data analysis and application of inspection data in pipeline integrity assessments. Application of Sonomatic's analysis methods leads to major benefits to pipeline operators through, for example, justification of extended operation or more reliable identification of threats to pipeline integrity.



QA and HS&E

Sonomatic is fully committed to supplying services and products, through the application of technical and engineering excellence, which complement both our customers' and our own QA and HS&E requirements. We maintain our commitment to quality through continuous assessment and review of our Quality Management Systems to BS EN ISO 9001:2008.

We actively promote the development, implementation and improvement to our QMS as part of our ongoing drive to enhance satisfaction by meeting or exceeding customer requirements. In 2009, we achieved UKAS accreditation as an Inspection Body to BS EN ISO/IEC 17020 (UKAS IB4276). This accreditation specifically addresses our advanced NDT services.