

# CORROSCAN - CORROSION MAPPING

## LOCATE, VISUALISE AND MONITOR CORROSION

Conventional manual ultrasonic inspection is the most reliable technique for measuring wall thickness.

The measured wall thickness is read from the ultrasonic device and reported. However, the exact location where the measurement was taken as well as the

projected coverage of the measurements is difficult to report, which makes the reproducibility of these measurements very poor.

With the Corroscan system both wall thickness and measurement location data are digitally stored. This not only

enables us to give a clear and comprehensive overview of wall thickness patterns of pre-defined areas, it also offers a good possibility to monitor these patterns in time with very accurate and reproducible follow up inspections.

# CORROSCAN VISUALISES YOUR CORROSION

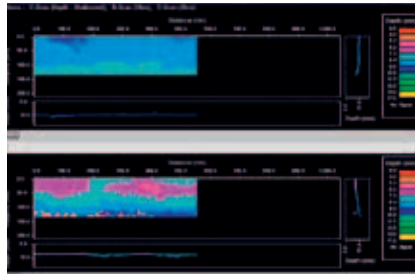
## INSPECTION TECHNIQUE

Corroscan is an automated pulse-echo inspection which stores wall thickness measurement data together with their positions by means of a computer.

Using Corroscan to measure and monitor wall thickness has several advantages compared to using manual pulse-echo, such as

- Digital storage of measurement and location
- Digital storage of all system settings
- Extremely good reproducibility
- Guaranteed 100% coverage of the inspected area
- Visualisation of wall thickness patterns using B-, C- and D-scan presentation in Corroscan reports

The Corroscan system can be operated on a 12 Volts battery as well as on 110 to 240 Volts AC and is very compact, making it suitable for inspections at almost every location.



## APPLICATIONS

Corroscan inspection is mainly applied in situations where both exact wall thickness measurements and monitoring is required to ensure safe operation of the part under inspection.

Typical applications are

- Pressure vessels as an alternative for radiography
- Tank bottoms
- Non-intrusive inspections for extending the time interval between intrusive inspections

The outcome of a Corroscan inspection is a clear and comprehensive report. To give a good overview of all the measurements taken they are presented in C-scan (top view) by using a colour scale to symbolise wall thickness.

On places of interest cross sectional views (B- and D-scans) can be added to give a distinct insight on wall thickness reductions. The report can be presented on paper, as well as on CD-ROM.

## THE SGS EXPERTS

SGS Industrial Services has the knowledge, expertise and experience to perform Conventional and Advanced Non-Destructive Testing (NDT) Inspections around the world using our unique network. Our services offer variations from Guided Wave and the conventional NDT techniques to Risk Based Inspection (RBI/AIM), Time of Flight Diffraction (TOFD), Positive Material Identification (PMI), Magnetic Flux Leakage (MFL), Alternating Current Fields Measurement (ACFM), Leak Testing, Thermography, Electromagnetic Testing (ET), Remote Field Eddy Current (RFEC), Internal Rotary Inspection System (IRIS), Digital Radiography, Radiation detection Remote Visual Inspection (RVI) and Endoscopy inspections.



We are pleased to inform you anywhere around the world about how SGS can help you in improving the reliability of your processes and assets.

## CONTACT US

[WWW.SGS.COM/NDT](http://WWW.SGS.COM/NDT) OR [INDUSTRIAL.GLOBAL@SGS.COM](mailto:INDUSTRIAL.GLOBAL@SGS.COM)