Technology Driven
Not Operator
Dependent

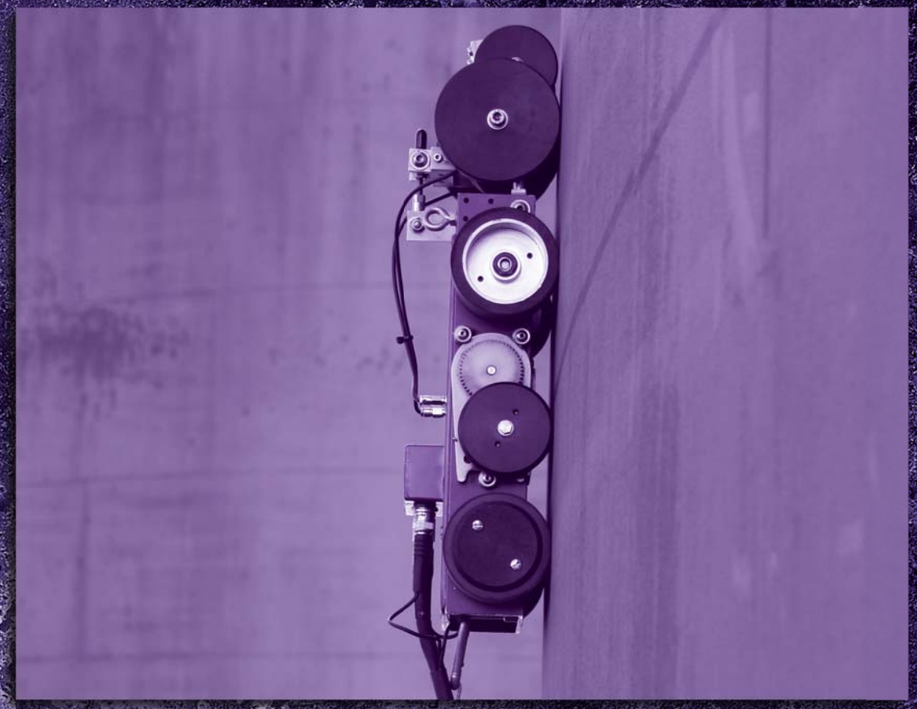
SILVERWING

Technology Driven
Not Operator
Dependent

Technical Specification -

Dimensions:	Length 385 mm x Width 222 mm Height 102 mm
Weight without cables:	4.75 Kg
Adhesion:	Neodymium iron boron magnets mounted in centre of carriage
Pull off force:	13.6 Kg
Drive::	four (4) independent 12 volt Dc motors
Drive wheels	coated in special non-slip synthetic rubber compound
Speed:	25 mm/second
Umbilical Cable length:	30 metre
Transducer:	Dry coupled wheel using "Ro-Cee" rubber 5 Mhz dual / twin compression transducer
Near surface resolution:	2.5 mm
Power supply:	28 Ah sealed lead acid gel battery pack with integral charger
Test time:	8 hours complete system

Scorpion B-Scan



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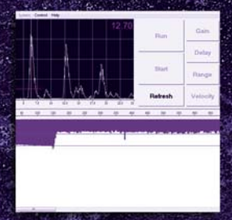


Scorpion B-Scan

Scorpion B-Scan

Remote Access, Dry Coupled B-Scan Ultrasonic Crawler

The Scorpion B-scan is a rugged remote access ultrasonic crawler designed to allow cost effective A and B-scan imaging on above ground ferro-magnetic structures such as oil storage tanks without the need for costly scaffolding or rope access.

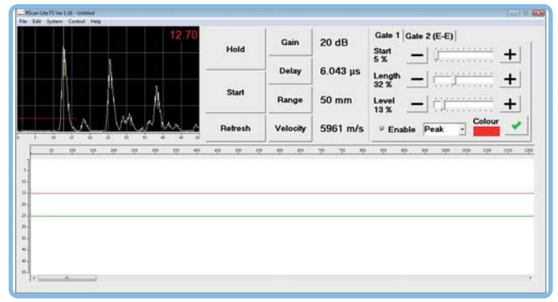
The Scorpion remote access crawler uses a unique “Dry Coupled” ultrasonic wheel probe eliminating the need for traditional couplant. This allows the crawler to travel vertically, horizontally or even inverted whilst still fully functional.

The Scorpion B-scan system continuously records thickness measurements received from the dry coupled TWP12 dual wheel probe and combines the data with the encoder information.

The recorded thickness information is presented in the software as an A-scan trace, a digital thickness measurement and a B-scan profile. The software has standard flaw detector controls for the A-scan set-up, simplifying training and operation requirements.

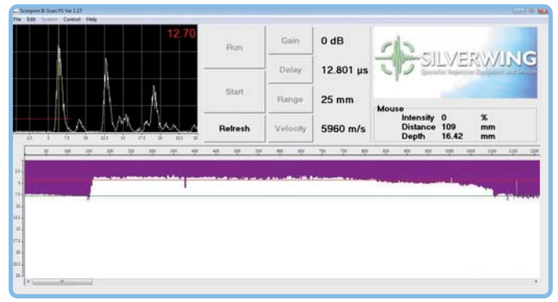
- **Battery Operated**
- **Easy Set-up and Operation**
- **Standard Flaw Detector Controls**
- **Dry Coulped Ultrasonic Wheel Probe**

The latest version of the software includes a set-up wizard that takes the operator through each stage of the set-up in a logical sequence. The setup wizard automatically adjusts all ultrasonic parameters from two known material thicknesses, and prompts the operator to enter gate settings and inspection details.



Gain, Time Base Range, Filtering and Gate Settings

All controls such as gain, time base range, filtering and gate adjustments are on the same screen as the active A-scan display and the B-scan image.



B-Scan Profile with Adjustable Reporting Threshold Indicator

The Scorpion B-scan software features several powerful data review tools. Saved data can be replayed at any time, for post inspection analysis. An adjustable reporting threshold indicator can be displayed over the B-scan profile, to identify reportable defects at a glance and allow rapid analysis of the complete scan.

The Scorpion B-scan software has a fully featured set of automated report printing tools integrated into the software. In addition B-scan profiles, thickness measurements and A-scans can be exported allowing a custom report to be generated using a preferred format. Scorpion B-scan data can also be exported as CSV files for use with spread-sheet software such as Microsoft excel.

These features turn the Scorpion B-scan from a simple corrosion detection device into one of the most cost effective, comprehensive remote access ultrasonic imaging systems on the market