

Technology Driven
Not Operator
Dependent



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Technical Specification:	
Patent Pending (EU: GB105193.5, GB1110889.1, GB1109371.3 and USA: 13175440)	
Principle of operation:	Magnetic Flux Leakage
Detection:	32 off Hall Effect sensors
Scan width:	250mm
Maximum single scan length:	15 metres
Method of propulsion:	DC motor
Speed:	0.5m/ sec
Thickness range:	Maximum 10mm [automated sizing mode] Maximum 20mm [detection mode only]
Test through coatings:	Yes if non magnetic
Maximum coating thickness:	6mm
Sensitivity:	Adjustable
Max sensitivity:	20% underfloor corrosion
Autostop:	Yes
Data storage:	Yes
Real time analysis:	Yes
Power requirements:	12v battery operation - 3 batteries and 2 intelligent charger allow continuous working
Transit case:	Meets IATA requirements for transporting magnetisable material
Operating weight:	54 kg
Floormap3D Reporting Suite:	Full version - 3 user license included. Read only version - unlimited Operating system requirement - Windows XP, Vista or 7
Training:	4 days Silverwing based training and examination included.

Options:	
Calibration Plates:	6 mm - Part No: CP30 8 mm - Part No: CP28 10 mm - Part No: CP29 12 mm - Part No: CP31
Pre-configured Reporting Laptop:	Windows 7 & Floormap3D reporting suite
Additional Software Licenses:	Bundles of 3 additional user licenses

FloormapVS2i



Silverwing UK Ltd
Unit 31
Cwmdu Industrial Estate
Carmarthen Road
Swansea, SA5 8JF
Wales, UK
t: +44 (0) 1792 585533
f: +44 (0) 1792 586044
e: sales@silverwinguk.com
w: www.silverwinguk.com

Silverwing Middle East LLC
P. O. Box 75950
Dubai
United Arab Emirates
t: + 971 4 338 0811
f: + 971 4 338 0992
e: aashton@silverwingme.com
w: www.silverwingme.com

Silverwing Africa (PTY) Ltd
Private Bag X1
Postnet Suite 419
Melkbosstrand
7437
South Africa
t: + 27 21 557 5740
f: + 27 21 557 4354
e: rnel@silverwingafrica.com
w: www.silverwingafrica.com





Corrosion Detection, Sizing & Mapping Floor Scanner



The FloormapVS2i is latest version of the best selling MFL floor scanner and now comes with up-graded magnets to improve defect detectability and sizing on thicker materials, faster data capture with a custom designed micro controller and all new software. The VS2i contains significant improvements in terms of defect positioning, electronic data processing and software manipulation.



A new High Specification encoder system has been developed which is electronically calibrated to each individual scanner eliminating errors caused by component tolerances. The new encoder now gives accuracy to within 3 mm on an 8 metre track length and providing it is calibrated on an annual basis will not be effected by normal wear and tear.



The ruggedised on-board computer uses touch screen technology for ease of use within the hostile storage tank environment. The custom designed data acquisition software not only captures all the MFL signals but analyses and displays the location and severity of the corrosion in real time.



- Automatic CAD drawing
- Patch plate design feature
- Ruggedised touch screen computer
- Real time data acquisition and analysis
- Hard copy and electronic report functions
- Combined defect profiling and amplitude analysis
- Add data from Visual, UT, Vac box and MPI Inspection



Maximum defect per track

The off-line reporting software automatically produces a CAD drawing of the tank floor with the defects being positioned to within 3mm accuracy. All captured data, over 20% loss of the nominal plate thickness, is re-analysed to identify the defect profile and separate the corrosion into 1 of 3 classes. Different sizing algorithms are applied to each class of corrosion ensuring enhanced defect sizing even on badly corroded floors where small diameter deep pits may otherwise have been undersized.

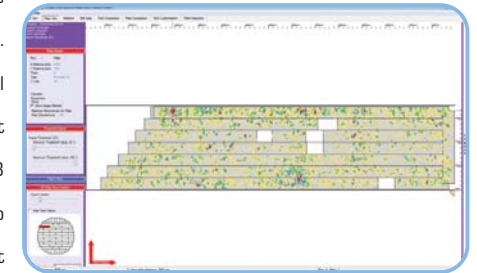
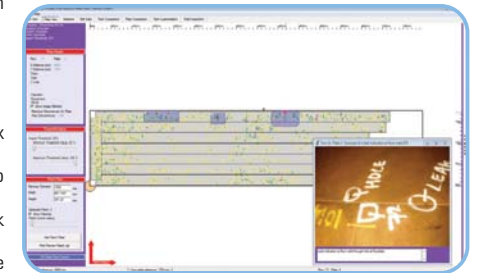


Plate view showing defects

Additional data from visual, ultrasonic, vacuum box and magnetic particle inspection can be added to the report generating a fullfingerprint of the tank floor including the annular plates. An innovative feature of the software allows subsequent inspection data to be overlaid and corrosion growth identified.



Add patch plates & photos

These features coupled together with a patch plate design function and full statistics package give the tankage engineer a powerful, cost effective tool with which to carry out trending and asset life projections.



Comparison from previous inspection