



SILVERWING

Specialist Inspection Services & Equipment

Technology Driven
Not Operator
Dependant

FloormapVS

Industry



specialist
equipment



power generation



leading manufacturer

tanks

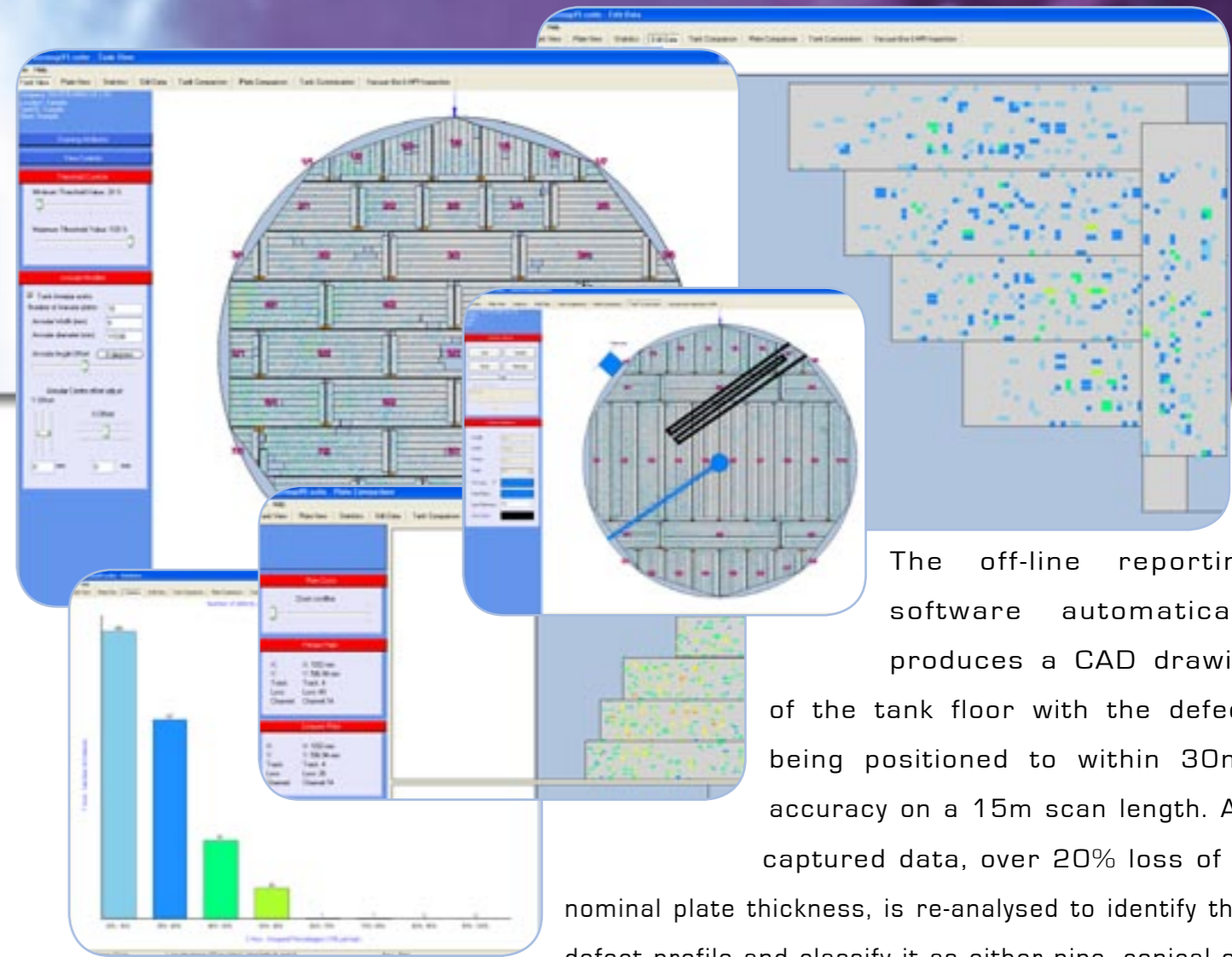


FLOORMAPVS

The new 2004 version of the best selling Floormap MFL floor scanner 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 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.



The off-line reporting software automatically produces a CAD drawing of the tank floor with the defects being positioned to within 30mm accuracy on a 15m scan length. All captured data, over 20% loss of the nominal plate thickness, is re-analysed to identify the defect profile and classify it as either pipe, conical or lake type corrosion. The combination of defect profiling plus amplitude analysis ensures enhanced defect sizing even on badly corroded floors where small diameter deep pits may otherwise have been undersized.

Technical and Performance Specification - Patent No 5,619,136

Principle of operation	Magnetic Flux Leakage
Detection	36 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 12.5mm (automated sizing mode) Maximum 20mm (detection mode only)
Test through coatings	Yes if non magnetic
Maximum coating thickness	6mm
Sensitivity	adjustable
Max sensitivity	10% underfloor on un-coated 6mm plate 20% underfloor on coated 6mm plate
Autostop	Yes in detection mode
Data storage	Yes
Real time analysis	Yes
Power requirements	12v battery operation - 2 x 28 Ahr batteries and 1 intelligent charger allow continuous working
Transit case	Meets IATA requirements for transporting magnetizable material
Operating weight	54 kg

- **Automatic CAD drawing**
- **3D imaging of corrosion**
- **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**

Additional data from visual, ultrasonic, vacuum box and magnetic particle inspection can be added to the report generating a full fingerprint 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. These features coupled together with an intuitive 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.

FloormapVS Analysis Suite System Requirements

- Reporting Software System Requirements
- Windows XP
- PC PIII 1GHz or better processor
- 256MB RAM (512MB RAM recommended)
- 40MB Hard drive with space for installation
- CD Rom
- SVGA 800 x 600 minimum resolution display
- Mouse & Keyboard
- Microsoft .Net Framework v1.1 (supplied)

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