

PIPESCAN

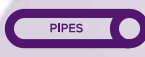
Adjustable Magnetic Flux Leakage Pipe Scanner



- > FAST, RELIABLE PIPE & SMALL VESSEL SCREENING
- > VARIOUS SCANNING HEADS FOR MULTIPLE PIPE SIZES
- > SIMPLE TO OPERATE
- > HIGH PROBABILITY OF CORROSION DETECTION



TANKS



PIPES



VESSELS

PIPESCAN

MANUAL MAGNETIC FLUX LEAKAGE PIPE SCANNER

Pipescan is an easy to use, cost effective, portable, magnetic flux leakage inspection system for the rapid screening and detection of random internal corrosion in pipe runs and small diameter vessels.

The latest magnetic material coupled with unique mechanical designs enables coverage of all pipe diameters from 48 mm to 2.4 metres with a limited number of scanning heads.

IN-SERVICE INSPECTION

Magnetic flux leakage inspection is not affected by product flowing through the pipe so surveys can be carried out both on-line and off-line and at surface temperatures up to 90 C. Use of Pipescan, with its high probability of detection to locate the corrosion, coupled with ultrasonic prove up, provides a cost effective accurate system for the determination of plant integrity.

KEY FEATURES

- > Flexible heads fit a range of pipe & vessel sizes
- > Rapid screening of complete pipe work with higher probability of detection than UT spot readings
- > Use in conjunction with UT follow up for quantifying any indications
- > Simple to operate with minimum training to semi skilled operator
- > Separate battery operated lightweight MFL control module
- > Proven MFL technology
- > Field proven durability & reliability



MFL CONTROL MODULE

The easy to use Pipescan system consists of a scanning head and a rechargeable battery powered portable control module which provides up to 8 hours of operation. The same control module can be utilised with the Handscan MFL floor scanner.

The control module features audible and visual alarms to alert the operator to the presence of corrosion during a scan.

The alarm sensitivity is adjustable, allowing the operator to calibrate the Pipescan to detect corrosion above the defined reporting level, but ignore low level, non-relevant corrosion signals.





FIXED	
MODEL	PIPE DIAMETER (OD)
PS 100 B	48 - 54 mm
PS 100 F	63 - 75 mm
PS 100 C	75 - 90 mm



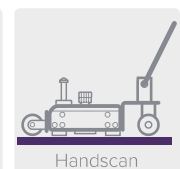
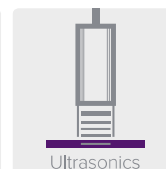
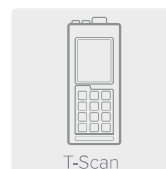
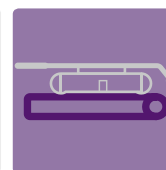
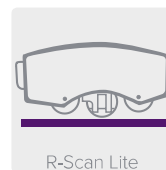
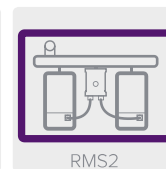
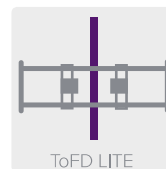
ADJUSTABLE	
MODEL	PIPE DIAMETER (OD)
PS 500	100 - 200 mm
PS 200	150 - 300 mm
PS 1200	300 - 2400 mm



CIRCUMFERENTIAL	
MODEL	PIPE DIAMETER (OD)
PS 300	300 - 2400 mm
PS 400	150 - 300 mm

THE SILVERWING SYSTEM

Silverwing produce a full range of equipment for corrosion inspection of storage tanks, including floor plate, wall and roof structures. The product range includes MFL mapping and manual systems, ultrasonic crawlers for thickness measurement, and vacuum boxes for weld inspection. By supplying a complete range we can offer unrivalled support, and ensure the highest quality inspection in the most efficient way. All our products are field proven by our in house teams and used by the most respected global inspection companies. For a complete overview contact our technical sales team.



For more information on Silverwing Systems please visit our web site: www.silverwingndt.com

HOW IT WORKS

The operator first connects the sensor cable between the scanning head and control module. Switch on the control module, set the required wall thickness and adjust the alarm sensitivity using a reference pipe with known artificial defects. Then simply set up the scanning head on the pipe to be inspected, push the scanning head and monitor the control module for the audible and visual alarm.

Any areas identified by the Pipescan system can then be marked on the pipe for further analysis by a secondary inspection technique, normally ultrasonic and for detailed corrosion mapping we recommend the RMS2 or Thetascan systems.



TECHNICAL SPECIFICATION

Principle of operation	Magnetic Flux Leakage
Detection	Up to 16 Hall Effect sensors (Model Dependant)
Pipe diameters	48 mm (2") to 2.4 metre (94") - Outside Diameter
Method of propulsion	Hand Push Speed 0.5 m/sec (20"/sec)
Profile	Clearance under / between pipework min 120 mm (4.7")
Maximum wall thickness	15 mm (5/8")
Test through coatings	Yes if non magnetic
Maximum coating thickness	6 mm
Sensitivity	Adjustable
Max sensitivity	30% pitting in 6 mm (1/4") wall pipe
	40% pitting in 12 mm (1/2") wall pipe
	50% pitting in 16 mm (5/8") wall pipe
Connecting cable	5 metre standard length
Power requirements	12v battery operation
Test time	8 hour continuous working
Transit case	Meets IATA requirements for transporting magnetizable material
Operating weight	18 Kg - combined weight of scanning head and electronics module

