

EIT International is an industry leader in the development and supply of environmentally friendly preventative controls and detection systems for the manufacturing, processing, rail and petrochemical industries.

Ferrascan is a non-destructive testing system using ground breaking technology to provide the fastest and most accurate surface integrity and crack detection in the market today.

Ferrascan is the latest testing system, developed by EIT International, to enable the on-site examination of metallic structures such as tanks, rails, cranes, presses and heavy machinery for defects such as cracks and pinholes that may cause structural failure, or allow contamination. The size of the defect can be highlighted so appropriate remedial action can be planned or taken.

Ferrascan is a method of detecting defects, such as cracks, incomplete weld fusion, corrosion cavities, porosity and other defects that may cause weakness in a structure or tank, whether it is steel, aluminium, brass, or other metallic construction. The equipment comprises a multi-channel scanning system in order to enable a quick and sensitive scan across large surface areas without the use of chemical agents. Also attached is a single channel probe system to enable scanning of small areas, such as corners and pipe attachments, normally inaccessible.

In the past, dye penetrant techniques required the equipment to be removed from service, cleaned, in some cases access equipment erected and chemical dye penetrants sprayed onto the surface. These chemicals then need to be disposed of and the equipment being tested, cleaned prior to reintroduction to service. Such procedures resulted in lost production time and the possibility of introducing chemical contaminants into the product path of the vessel.



KEY BENEFITS OF FERRASCAN OVER OTHER TEST SYSTEMS

- Easily transportable one man operation. Much faster than basic eddy current testing
- Inspection gives immediate results without degreasing the surface
- Quick to mobilise, enabling regular testing to give a high degree of certainty and protection
- Inspect large surface areas quickly using array of unique sensors
- User friendly equipment having visual crack detection alarms
- Sensitive to small cracks and pinhole defects
- Unlike dye penetrant, this method also ignores scratches
- Inspects complex shapes and sizes such as corners, nozzle attachment pipes and around a weld.

Methodology

The Ferrascan scanner heads are placed on the surface, in order for the system to recognise the construction material.

Scan across the examination surface by making contact between the scanner and the surface, then sweep across the surface ensuring overlap. If the alarm sounds, stop and assess the area using the single probe, mark for repair and continue with the test. When the test is completed, repair the areas marked, re-examine and complete.

Specifications	
Dimensions (L x W x D)	310mm x 116mm x 70mm
Weight	870g (excl. probe)
Battery	Lithium-Ion 7.4V 5.2Ah
Battery life	36 hrs (est. before recharge)
Display	20 x 4 OLED display
Sampling	300Hz on each sensor
Scanning Area	240mm x 50mm
Scanning speed	18.75m/min

For enquiries or to request a quote, please contact your authorised EIT International distributor at: