



Protecting your world, one tank at a time®

TANK BOTTOM SCANNERS MAGNETIC FLUX LEAKAGE (MFL)



HMT offers the latest in NDE equipment for tank bottom inspection including the Magnetic Flux Leakage (MFL) bottom scanners. MFL bottom scanning is also known as MFE (Magnetic Flux Exclusion / Evaluation). MFL is the “best” method to evaluate a tank bottom condition quickly and cost effectively.

HMT’s bottom scanner is a steerable motorized corrosion detection instrument used in aboveground storage tanks to detect metal loss due to corrosion. MFL technology induces a magnetic field into the steel plates and then evaluates any disturbance in the magnetic field. When the magnetic field is disturbed, possible

metal loss (either product side or soil side) has occurred and must be evaluated, or “proved-up”. The HMT bottom scanner features “stop on defect” functionality. When metal loss is detected the machine automatically stops, thus reducing human error resulting from missing a screen signal. This facilitates direct marking of the defect positions on the bottom plate surface for further investigation. To address smaller areas that the larger NFL bottom scanner cannot fit, HMT Inspection offers a motorized MFL Mini-Scanner and MFL Manual Scanner.



KEY BENEFITS

- Evaluates tank bottom condition on bottom plates of ferrous material
- Quick, cost effective process and does not require couplant - "dry application"
- Steerable fast motor driven scanner
- Features "stop on defect" functionality
- Ruggedized touch screen technology for ease of use in the storage tank environment
- Full sized MFL Scanner, motorized MFL Mini-Scanner and MFL Manual Scanner available



REPORTING

Post scan, the inspection reports generate a full fingerprint of the tank bottom. These reports include which side the defect is located and using an "x", "y" coordinate system, specific locations on the individual plate and its depth and remaining plate thickness. These reports highlight all areas requiring repair, assisting in establishing corrosion rates and next inspection intervals per API Standard 653.



ABOUT HMT

HMT is the global leader in aboveground storage tank solutions. HMT provides advanced solutions to reduce emissions, optimize tank capacity, reduce stranded inventory and engineer a tank system that exceeds safety standards and extends maintenance intervals.

HMT's full suite of tank products includes: Internal/External Seal Systems - Internal/External Floating Roofs - Drain and Floating Suction Systems - Aluminum Domes - Emissions Reduction Devices.

HMT's quality services include: Tank Repair & Maintenance - Floating Roof & Seal Repair/Replacement - Installation Services - Fabrication Services - Project Management/Turnkey - Inspection, Calibration, Verticality & Roundness Studies - New Tank Construction - Painting, Coating & Lining - Engineering Services.

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