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 "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. Additionally, there are "sketch" plates or other restricted areas that the standard bottom scanner will not fit on or scan. To reduce the areas which cannot be scanned, the smaller motorized MFL Mini-Scanner and MFL Manual Scanner are available.

HMT's inspection reports generate a full fingerprint of the tank bottom. These reports include on which side the defect is located; and by using an x,y coordinate system, indicate specific positions on the individual plate, and its depth and remaining plate thickness. These features give the tank owner/operator a powerful, cost effective tool to highlight all of the areas requiring repair, usually key factors in establishing corrosion rates and next inspection intervals for API Standard 653.

Contact your local HMT representative to discuss the full suite of products and services that will satisfy all your AST needs.

Key Benefits Provided by HMT's Inspection Services with the Magnetic Flux Leakage (MFL) Include:

- Evaluates Tank Bottom Condition on Bottom Plates of Ferrous Material
- Quick and Cost Effective and Requires no Couplant thus is a "Dry Application"
- Steerable Fast Motor Driven Scanner
- Features "Stop on Defect" Functionality
- Ruggedized Touch Screen Technology for Ease of Use Within the Storage Tank Environment
- Available with the Full Sized MFL Scanner and/or with the Smaller Motorized MFL Mini-Scanner and MFL Manual Scanner

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