MAGNETIC FLUX LEAKAGE
(Tank Bottom Inspection)

In MFL technology, the component required to be tested is magnetized to a saturation level at which the presence of a significant local reduction in material thickness causes distortion of the internal magnetic field, allowing flux lines to break at the area of the discontinuity. With MFL, sensors are used to give an electrical signal at the leakage site. This signal operates an audible or visual alarm to alert the inspector or stores the event for computer mapping of the area.

Why MFL
The storage of dangerous goods in tanks must be done in a safe way. In order to reduce the economical as well as the environmental risks to a minimum, a thorough knowledge of the condition of the tank, and in particular the tank floor, is of outstanding importance. To minimise inspection time we offer you a quick and a reliable inspection, by combining: Magnetic Flux Leakage (MFL) for tank floor inspection, Hand scan for the inspection of areas with limited access and Ultrasonic Testing (UT) for verification of some areas expected to undergo corrosion. By using those techniques, corrosion can be effectively detected.

Advantages of MFL over the conventional techniques:
1- More reliable results as MFL covers the entire area of tank bottom not only random readings as conventional methods which increases the possibility of detection of anomalies and remaining life assessment RLA.
2- Saving time and cost due to the high inspection rate (Min. productivity is 300 square meters per shift and could be much more depending on bottom conditions and cleaning
3- Comprehensive reporting with statistical data, color mapping, patch plate design along with recommendations according to the applicable codes and standards.