



**VERSA**  
INTEGRITY GROUP

Nondestructive Examination Services

## ALTERNATING CURRENT FIELD MEASUREMENT



Periodically our customers require special application inspection of weldments in large structural joints and those located in the interior of pressure vessels. The ACFM technology allows for a thorough investigation of those weldments and areas of the base metal adjacent to those welds. The system is excellent in identifying surface breaking anomalies that are hidden under painted surfaces.

The inspection procedure is ideal for inspecting and screening large amounts of weld footage in a short time frame. Once areas of concern are identified, conventional magnetic particle inspection is deployed to define those suspected surface anomalies.

The system components are light weight and are easily managed in tight work environments such as plant pressure vessels in turnaround applications. The system is also transportation friendly for offshore destinations that rely on air transportation.

## Applications of ACFM

- Vessel head and longitudinal seam welds, both interior and exterior.
- Highly stressed joints on offshore drilling and production units.
- Large areas of weld seams on aboveground storage tanks that have been subjected to deformation from external sources.
- Easily managed by rope access personnel for elevated work in refinery and chemical plant applications.
- Extremely useful in upper joint inspections of the underside framework of offshore structures, drilling units, TLPs, and floating SPARs.



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