

Phased Array Wheel Probe

The phased array wheel probe offers a corrosion mapping solution for both non-ferrous and ferrous materials and delivers a cost-effective and efficient alternative to immersion techniques.

The unique design of the phased array wheel probe was developed to guarantee high-quality, immersion-like phased array testing. Minimal couplant and pressure is required to provide excellent coupling and a strong signal, even in difficult scanning positions.



FEATURES

Minimal couplant required

Inspection of non-ferrous and ferrous materials up to 50 mm in thickness

Typical 1mm near surface resolution

Phased Array Wheel Probe

Applications

Applications include testing in-service piping from 14 in to flat plate in order to detect corrosion damage in the forms of general wall loss, isolated pitting, and microbial influenced corrosion (MIC).

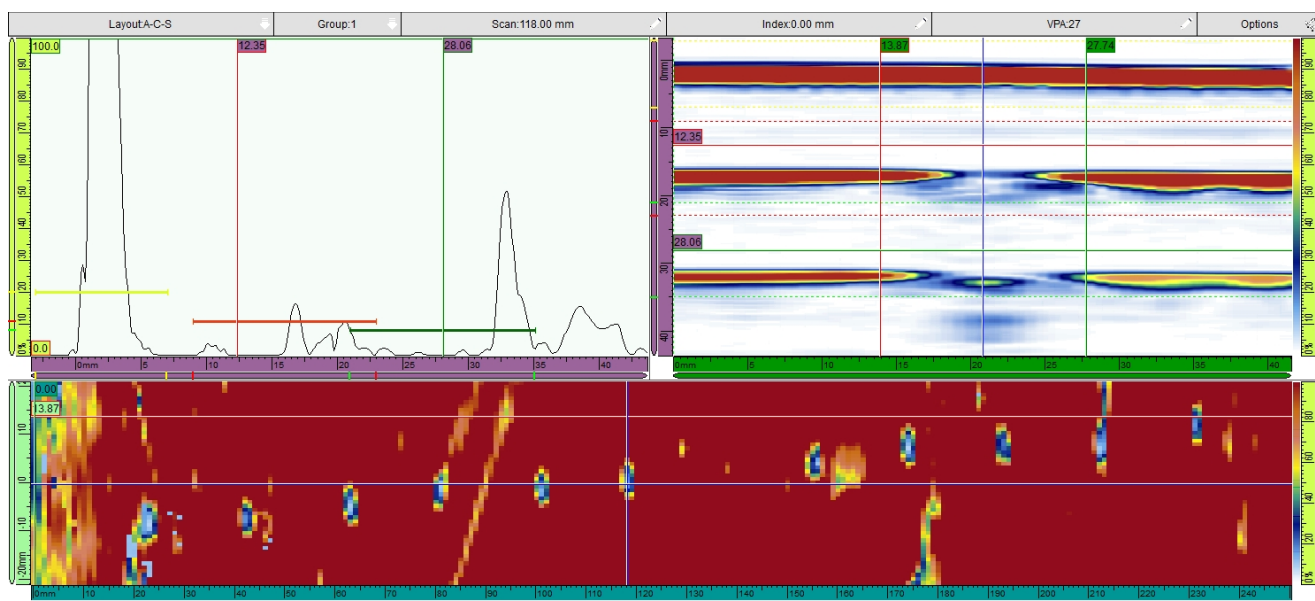
Color-coded C-scan displays enable rapid data interpretation by clearly identifying material losses. Other applications include delamination sizing, porosity quantification in composite core material, and wall-loss monitoring in both pipe and plate samples.

Limitations

- » Material being inspected must be penetrable by ultrasonic sound waves
- » Outer surface of the asset under inspection should be clean and free from loose impediments such as insulation or other debris
- » Limited to inspecting thicknesses up to and including 50 mm

Additional Features

- » Technique offers higher probability of detection of critical defects pitting
- » Provides fully-recordable data sets



Amplitude analysis for the detection and characterisation of welded studs in ship deck plate