

PHASED ARRAY

Phased Array Ultrasonic Testing is applied to many applications where it is seen and proven as a more suitable alternative to conventional ultrasonic testing. The most common applications used with Phased Array Ultrasonic Testing include Bolt Inspection; Detailed Fingerprint Weld Inspection; Flange Inspection and C Scan Corrosion Mapping (Hydroform).

Applications

Corrosion Mapping

Fast, accurate ultrasonic corrosion mapping with high repeatability.

The purpose built HydroForm assembly can be used on pipe diameters equal to 4" OD or greater externally, and 10" ID or greater internally. It is an immersion technique which improves near surface resolution. The larger probe housing provides a larger area of coverage, thus reducing inspection time, when compared to conventional ultrasonic techniques. Blind trials managed by HOIS have showed that the POD of Phased Array C-Scan Corrosion Mapping is higher than conventional techniques with a high degree of accuracy.

The assembly can be used with additional scanner systems dependant on component geometry, or in a manually deployed mode. The system uses an encoder, which allows for full x and y coordinate mapping of pipelines, vessels, plant and structural components.

