



PHASED ARRAY

**An advanced ultrasonic inspection technique,
for fast and precise viewing of damaged zones**

> Why using **Phased Array?**

- To perform corrosion mapping on metallic equipments
- To simplify and to reduce the time required for inspection
- To improve defect characterization (size and morphology of defects) on sensitive or regulated equipments
- To inspect difficult-to-access zones, complex shapes or thick sections
- To improve the traceability of results through digital processing



> Why choosing IS Industrie?

- For its experience: implementation of Phased Array inspection on a great variety of applications (pipes, pressure vessels, storage tanks, etc...) and materials
- For its additional capabilities: IS Industrie specialists can study the detrimental effects of the defects found and evaluate their acceptability
- For its references: PTTEP, TOTAL, Exxon, Shell, PTTAR, REPCO, SCG Chemical, Bangchak Petroleum, Siam Mitsui PTA, Rayong Purifier, SLOT-NANKAI, Thai Polyethylene ...



> The technique:

The method is similar to that used in medical ultrasonic scans

- The method uses a probe consisting of several miniaturised ultrasonic transducers
- The probe is controlled by a dedicated electronic system which provides displacement or variable angle of the ultrasonic beam
- It includes dedicated software for acquisition and fine analysis of the signals through various displays

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