Corrosion Inspection Solutions

Aerospace Automotive Manufacturing **Power Generation** Steel/Materials

Phased Array Ultrasound

High-resolution corrosion mapping in large areas

- Accurately map part thickness
- Scan very large areas quickly
- Data can be easily exported for further analysis



Eddy Current Array

Map corrosion below surfaces

- Detect surface corrosion like stress corrosion cracking (SCC) or surface and sub-surface corrosion on aluminum
- No need to remove paint; fewer steps means time-savings
- Green method (no chemicals involved)



Ultrasound Time-of-Flight Diffraction





Conventional Ultrasound

Corrosion under uneven surfaces using EMAT

- Measure corrosion under external oxide scaled surfaces
- No couplant required
- Can be used on high-temperature surfaces



Conventional Ultrasound

Measure remaining wall thickness

- Special delay lines may be used on surfaces up to 260° C (500° F)
- Use an encoded scanner to generate encoded B-scans of remaining wall thickness
- Boiler tube and internal oxide scale layer measurement



Remote Visual Inspection





Weld root evaluation per ASME VIII Division 1 and 2 and erosion damage

- Evaluate the depth and lenght of the damaged area
- Quick imaging and simple inspection
- Not sensitive to the internal orientation of damages

3D stereo measurement for guicker decision making

- Responsive videoscopes enable visual inspection of inspect hard-to-reach welds
- Increase the probability of detection with sharp, vivid images that help make inspection fast and efficient
- Improved 3D stereo measurement capability for in-situ defect measurement

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