



PHASED ARRAY - ULTRASONIC TESTING



WELD QUALITY & CRACK DETECTION

Phased Array Ultrasonic Testing (PAUT) uses multi-element transducers to create and transmit ultrasonic beam fronts at a variety of angles simultaneously to identify and size defects across a variety of materials.



INCREASES
SAFETY



MINIMIZES
INSPECTION TIME



INCREASES
ACCURACY



KEY ADVANTAGES:

- Non-intrusive
- Doesn't affect plant equipment
- Faster inspection times
- Ability to size defect height, depth and length
- Higher sensitivity to planar flaws
- Better accuracy for flaw location
- Ability to electronically focus at specific depths
- Digital record that can be shared via email or network
- No barricades or lost production during inspection
- Eliminates all hazards associated with radiation

PAUT is used all over the petrochemical industry as an alternative to radiography in the following codes:

- ASME B31.1
- ASME B31.3
- ASME Section VIII
- API 650

QUALIFICATION TESTING

Each Amerapex certified technician must pass a practical examination that includes four test specimens. All Amerapex technicians also hold current QUPA certifications from the American Petroleum Institute (API).

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