

Seven-axis ultrasonic immersion tank

Custom-made Metalscan tank with MultiX++ PAUT system

Immersion system designed for scanning complex-shaped components such as mooring chains, nozzles and composite panels using phased array ultrasonic techniques.

Features and benefits

- Advanced simulation and analysis software capable of processing large quantity of data
- Versatile system designed to be reconfigured for

Some applications

- Development of phased array ultrasonic techniques for in-situ inspection of offshore mooring chains for deployment by robotic
- Inspection of complex geometries for multiple sectors to reduce in-situ repair costs over
- Development of liner and weld overlay cladding techniques for subsea risers
- Overhead crane access enables batch inspection of high-value components, such as composite panels following curing
- Inspection of reactor and pressure vessel nozzles for nuclear power plants

Technical specification

- Three linear Cartesian axes
- Four rotary axes
- 1500kg weight capacity
- 5m x 4m tank area
- 1m x 1m x 1m working volume
- Tecnatom Gentray complex trajectory generation M2M MultiX++ 128–channel phased array instrument
- CEA LIST CIVA simulation, design and analysis

