



Intelligent Phased Array UT Weld Inspection Robot

Automated Weld Inspection

Robotically deployed Phased Array UT technique with FMC/TFM enhanced mode provides 3D imaging and AI assisted Automated Defect Detection and Recognition (ADR) for unprecedented reliability in WELD INSPECTION. This can be used during manufacturing and in-service inspections.

System Features

- FMC/TFM based PAUT Imaging
- AI enhanced Intelligent Software
- Magnetic Coupling of Robot
- Motorized Robot movement
- Laser and vision based weld tracking.
- Flat and Curved Geometries
- V, Double V and butt welds.
- Simulation Assisted AI Training.
- Defects detected and Sized using Automated AI based S/W
- Porosity, Inclusion, Cracks, under-cut, incomplete penetration, burn-outs types of defects can be detected and recognized.



Why DHVANI ?

- Proven competency in NDT Automation.
- Data Analytics and AI leaders in NDT.
- Largest database of PAUT Inspection datasets.
- Expertise in PAUT simulations and interpretations.
- Proven Track Record of reliable products and after sales service.
- Please see https://youtu.be/ubgXoJX_SdQ

