

Inspection through
Innovation & Technology



Client List



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An ISO 9001, 14001 & 45001 Certified Company

ZETA

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A Group Company of U-SONIX

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20 Years of Excellence
in PAUT & TOFD Services



An ISO 9001, 14001 & 45001 Certified Company



U-SONIX
Inspection Solutions Pvt Ltd

PROFILE

U-SONIX is an ISO 9001:2015 certified company established in 2005, primarily, as an “Advanced Non Destructive Testing (ANDT) center”

We are pioneers in the field of Advanced Ultrasonic Testing (AUT) and specialize in Phased Array Ultrasonic Testing (PAUT) and Time Of Flight Diffraction (TOFD). We have successfully implemented the AUT technique (PAUT & TOFD) in a number of projects, worldwide. Additionally, we provide other Advanced NDT services such as Tubing Inspection, Corrosion Mapping, Boroscopy etc

We Provide services to the Oil, Gas, Offshore, Marine, Power, Wind energy sector, Petrochemical sector and Nuclear sector

In a span of 20 years, we have provided services to major clients like Shell, GE, Saudi Aramco, Saipem, ONGC, Qatar Petroleum, PDO Oman, Aker Solutions, MRPL, HPCL, BPCL, Vestas, Siemens Gamesa, Exxon Mobil, Caterpillar, Reliance Industries Ltd, Worley Parson, Foster Wheeler, Alstom, RINA, Applus Velosi, Oryx, Sapurakencana, NPCIL, L&T, Tata Power, Vedanta etc for many of their premier projects, worldwide

All the activities and services are carried out using sophisticated & state of art equipment, combined with latest technology available, globally, backed by a team of qualified and experienced professionals with specific focus and attention to Quality and work safety

OUR SERVICES

PHASED ARRAY ULTRASONIC TESTING

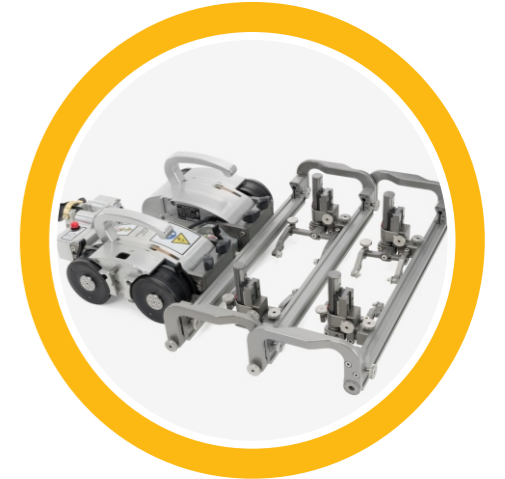
- Pressure Vessels and Heat Exchangers (CS & SS)
- Plant Piping (CS, SS & SDSS)
- Storage Tanks (Including 9% Nickel Alloy)
- Boiler Tubes (CS & SS)
- Structural Welds (Offshore)
- Windmill Towers
- TFM / FMC
- Plane Wave Imaging (PWI)
- High Temperature PAUT
- HTHA & HIC Inspection
- PAUT of Dissimilar Welds

TIME OF FLIGHT DIFFRACTION

- To Inspect High Thickness Pressure Vessels
- To Inspect High Thickness Piping
- In-Service Inspection of Assets
- Flaw Growth Monitoring during Asset Life Cycle
- Ideal for Critical Applications such as Oil, Gas & Nuclear Industries

CORROSION MAPPING SERVICES

- Using Hydroform Phased Array Immersion Technique
- Evaluate Wall Thickness Reduction
- Evaluate Corrosion, Abrasion and Erosion
- Detection of Mid Valve Damage such as Hydrogen Induced Blistering
- Detecting Laminations
- Fully Automated Corrosion Mapping using Steer Rover
- Inspection of Large Ferromagnetic Structures such as Pressure Vessels & Tanks
- Corrosion Mapping of Inaccessible Areas using Motorized Raster arm
- Scanner Control using Intuitive Touch Screen Remote Control
- In-service Inspections of Petrochemical Plants



ADVANTAGES OF ADVANCED UT OVER RT

- No Radiation Hazard, Hence no work stoppage at site unlike RT
- High Probability of Detection (POD) especially for Cracks and Lack of Fusion
- Ultrasound tends to detect Planar Flaws better than Radiography
- Very Short Inspection Cycle Time for High Production Rate
- Better Detection and Sizing Accuracy Leading to Lower Rejection Rate
- Accurate sizing of defects height enables use of Engineering Critical Assessment (ECA) acceptance criteria resulting in lesser rejects/repair
- Ultrasound allows defect height measurement allowing volumetric consideration of flaw severity versus just type and length
- No Chemical, Waste material and Dark Room required like RT
- Real-time analysis for Instant Evaluation and feedback to Welder
- Setup and Inspection reports in Electronic format compared to film based Radiography

