

Introduction

Introduction – Tube Inspection Technologies (TIT)
Tube Inspection Technologies (TIT) is a trusted provider of advanced Non-Destructive Testing (NDT) and inspection solutions, delivering high-quality services to ensure the safety, reliability, and efficiency of industrial assets.

Headquartered in Tamil Nadu, India, with a presence in Thanjavur and Tirunelveli, TIT is strategically positioned to serve clients across multiple industries, including oil & gas, power generation, petrochemicals, refineries, and manufacturing sectors.

With a strong focus on innovation, accuracy, and customer satisfaction, TIT offers a wide range of services such as:

- Conventional & Advanced NDT methods (PAUT, TOFD, ECT, RFT)
- NDT Training & Certification programs
- Equipment renting
- Manpower supply for NDT inspection
- Third-Party Inspections

Our team of certified professionals combines technical expertise with state-of-the-art technology to deliver inspection services that meet global standards.

At TIT, we are committed to supporting industries with safe, efficient, and cost-effective inspection solutions, empowering businesses to maintain compliance while extending the lifespan of their critical assets.





ABOUT COMPANY

TIT (Tube Inspection Technologies) provides advanced inspection solutions across the globe. We specialize in Non-Destructive Testing (NDT) services, offering precise and reliable inspection of heat exchanger tubes, boilers, condensers, and other critical components. Our experienced technicians ensure the highest quality and safety standards, helping industries reduce downtime and avoid failures.



**TUBE INSPECTION
TECHNOLOGY**

Our Mission

Our mission is to deliver world-class Non-Destructive Testing (NDT), inspection, and certification services that ensure the safety, reliability, and efficiency of industrial assets. We are committed to providing innovative solutions, high-quality training, and customer-focused services that help industries maintain compliance, reduce risk, and achieve operational excellence.

OUR SERVICES

- CONVENTIONAL NDT
- ADVANCED NDT
- NDT TRAINING & CERTIFICATION
- FITNESS FOR SERVICE
- REMNANT LIFE ASSESSMENT
- THIRD PARTY INSPECTION

Our Vision

Our vision is to be a trusted global leader in NDT and inspection services, recognized for our technical expertise, integrity, and innovation. We aim to empower industries with advanced technologies, certified professionals, and sustainable practices that extend asset life, enhance safety,

ADVANCED ULTRASOUND INSPECTION

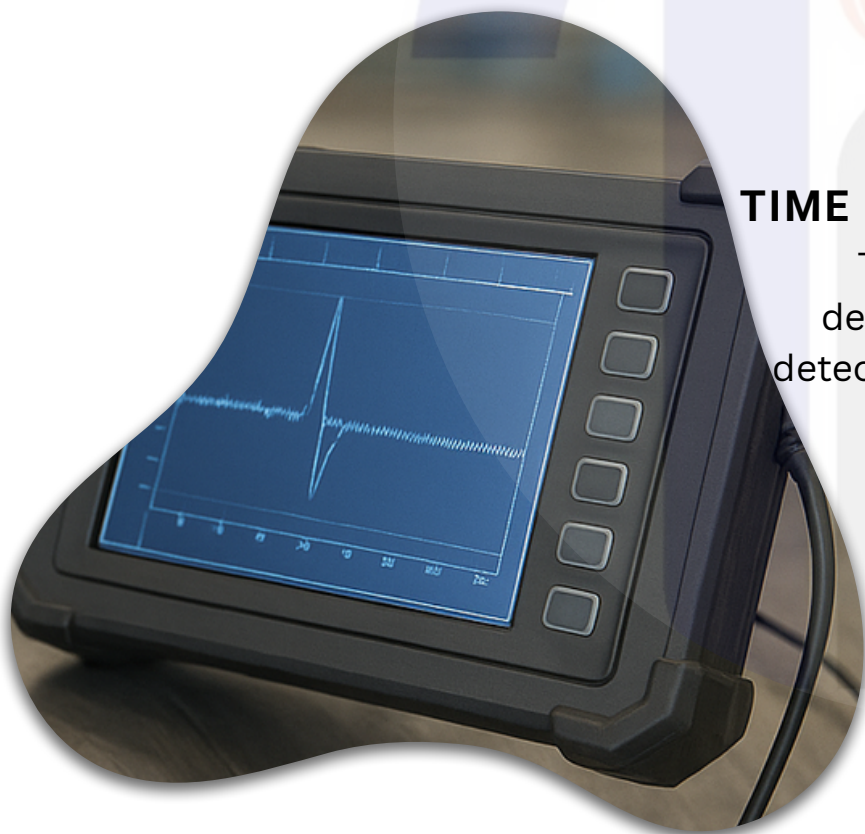
PHASED ARRAY ULTRASONIC TESTING (PAUT)

Phased Array Ultrasonic Testing (PAUT) is an advanced non-destructive testing (NDT) technique that uses multiple ultrasonic elements and electronic time delays to steer, focus, and scan the sound beam. It is used for detecting flaws, measuring material thickness, and performing weld inspections with high precision.



TIME OF FLIGHT DIFFRACTION (TOFD)

Time of Flight Diffraction (TOFD) is a highly accurate and reliable non-destructive testing technique based on ultrasonic principles. It is used for detecting, locating, and sizing defects in welds, pressure vessels, and structural components.



TUBE TESTING

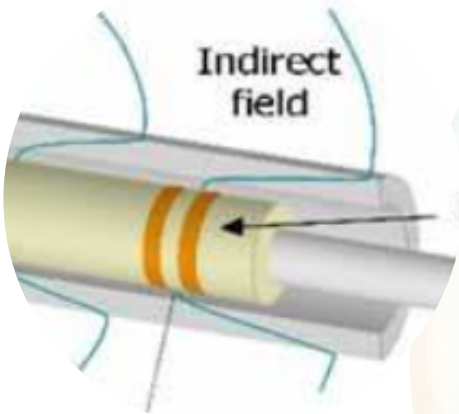
EDDY CURRENT TESTING (ECT)

ECT detects surface and subsurface flaws in conductive materials using induced eddy currents. Defects cause changes in impedance due to amplitude and phase variations, which can be detected and analyzed.



REMOTE FIELD TESTING (RFT)

RFT uses low-frequency AC current excited by a transmitter coil and received by a receiver coil. Flaws in the material cause changes in phase and amplitude, detected as digital signals. However, RFT cannot differentiate between internal (ID) or external (OD) defects.



MAGNETIC FLUX LEAKAGE (MFL)

MFL detects internal pitting and corrosion using a strong magnetic field. If there is metal loss or cracking, the magnetic field leaks, which can be detected and analyzed.



INTERNAL ROTARY INSPECTION SYSTEM (IRIS)

IRIS is an accurate tube inspection method using ultrasonic waves in a spiral form via a rotating mirror in the probe. It works for both ferrous and non-ferrous materials.



OUR PRODUCTS



IRIS TURBINES



CENTERING DEVICE



ECT FLEXIBLE PROBES



**TRAINING & MOCKUP
BUNDLES**



IRIS FILTER SYSTEM



ECT PROBES



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