



**YOUR
TRUSTED
PARTNER**



for Testing | Inspection | NDT

Operating through its group entities – Trans Asia Industrial Laboratories, Trans Asia Inspection Laboratories, and APTS – the organization delivers comprehensive and specialized testing, inspection, and NDT services.



Group of Companies



Comprehensive testing and analytical services, including mechanical testing, chemical analysis, metallurgical examination, failure analysis, and replica metallography.



Providing end-to-end inspection services—field, welding, quality, and equipment inspections—to support safety, compliance, and operational integrity.



Offering a full spectrum of conventional and advanced NDT services to accurately identify defects and ensure structural reliability.

Introduction

Trans Asia Industrial Laboratories (TIL), part of the Trans Asia Group, is a multidisciplinary testing and inspection facility delivering reliable, high-quality services aligned with international standards.

Fully equipped with advanced technology, TIL offers Physical, Mechanical, Corrosion, Metallography, Chemical, Failure Investigation, Asset Integrity Assessment, Filed Inspection, Post-Weld Heat Treatment and Non-Destructive Testing (NDT) services.

Our certified and accredited systems (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO/IEC 17025:2017, ISO/IEC 17020:2012) ensure precision, quality and consistency and regulatory compliances.



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At TIL, we are dedicated to delivering world-class testing and inspection services built on precision, quality, and reliability.



Industries We Serve

We provide reliable inspection and integrity solutions across a diverse range of industries. Our expertise ensures safety, compliance, and performance for clients operating in some of the world's most demanding environments, the clients include:

- Aerospace / Aviation
- Automotive
- Chemical
- Commercial Properties
- Energy
- Industrial
- Construction
- Government
- Consumer Products
- Insurance / Legal
- Manufacturing
- Military
- Nuclear
- Oil & Gas
- Pharmaceuticals
- Power Generation
- Marine





Across every industry, our commitment remains constant:

To provide accurate, dependable, and technically competent inspection and integrity solutions that keep your operations safe, efficient, compliant, and future-ready.

With our qualified personnel, accredited systems, and cutting-edge equipment, we stand as a trusted partner—delivering assurance, minimizing risk, and enabling confident decision-making for critical assets and infrastructure.



Across every industry, we deliver **trusted laboratory services, NDT solutions, and field inspection **services** that uphold safety, quality, and integrity – every time.**



Industry

Recognition

Trans Asia Industrial Laboratories (TIL) is a trusted, accredited analytical and inspection partner serving diverse industries. With advanced facilities and ISO-certified systems, TIL provides mechanical, metallurgical, chemical, and microbiological testing, corrosion studies, and advanced NDT and field inspection services across oil, gas, petrochemical, and marine sectors.



EIAC

Accreditation

Certified by EIAC (LB-TEST-225 & IB-188) under ISO/IEC 17025 and ISO/IEC 17020, TIL delivers a full range of mechanical, metallurgical, chemical, and non-destructive testing (NDT) services, supporting the oil, gas, petrochemical, and marine industries with exceptional precision, reliability, and compliance to international standards.



ADNOC

Approval

Proudly ADNOC-approved, we meet the rigorous standards of the UAE's leading energy authority – ensuring trusted, high-quality services.



IMS

System

TIL operates under a robust Integrated Management System (IMS) that aligns with the requirements of ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System), and ISO 45001:2018 (Occupational Health and Safety Management System).

ICV

Sustainability

In-Country Value (ICV) certified under the UAE's national ICV program, demonstrating its commitment to supporting the sustainable growth.

Our Services

01) **Laboratory Testing**

Comprehensive laboratory testing services including mechanical, metallurgical, corrosion, and chemical tests, plus expert failure analysis ensuring quality, reliability, and performance.

02) **NDT Solutions**

Specialized NDT and PWHT services delivering precise inspections, defect detection, and controlled heat treatment to enhance component strength, safety, and service life.



**Delivering
precision and
trust through
our expert
services.**

03) **Field Inspection**

Specialized field inspection services providing accurate on-site assessments, equipment verification, welding evaluation and quality assurance to maintain operational reliability.



We provide comprehensive Laboratory Testing, Non-Destructive Testing (NDT), Inspection Services, and Post Weld Heat Treatment (PWHT) to support asset integrity and compliance across industries.

Our laboratory services include mechanical, metallurgical, chemical, corrosion, and failure analysis, ensuring material reliability.

Using conventional and advanced NDT methods, we assess welds and components without damage.

Our inspection services cover on-site evaluation, welding oversight, quality audits, and third-party verification.

Skilled professionals deliver PWHT to improve strength and service life.

Across all solutions, we focus on precision, reliability, and performance excellence.

Our Services

01) Laboratory Testing

- Failure Analysis
- Corrosion Testing
- In Situ Replica Metallography
- Tensile / Bend Test
- Charpy Impact Test
- Hardness Test / Survey
- Macro Examination
- Micro Examination
- Fillet Fracture Test
- Nick Break Test
- Through Thickness Test
- HIC – Hydrogen Induced Cracking
- SSC Sulphide Stress Cracking Test
- Chemical Composition Analysis

02) NDT Solutions

- PWHT – Post Weld Heat Treatment
- Baroscopic Investigation
- MFL Tank Floor Inspection
- Coating Thickness Measurement
- Vacuum Testing
- Ferrite Testing / Pullout Test
- On site Portable Hardness Test
- Holiday Testing
- Ultrasonic Testing
- Magnetic Particle Testing
- Dye Penetrant Testing
- Visual Inspection

- Advanced NDT (Eddy Current, PAUT, LRUT, TOFD)
- Dolly Testing / Pullout Test

03) Field Inspection

- Plant and Pipeline Integrity Surveys
- Shutdown and Turn-around Inspections
- In Service Inspection / Condition Monitoring
- Fitness for Service Assessment – API 579
- Welding Inspection
- Painting & Coating Inspection
- Tank Inspection API 653
- Inspection of Piping (API 510)
- Inspection of Pressure Vessel (API 570)
- Welder Qualification Tests
- Level III Consultancy Services
- Supply of Painting and Coating Inspectors
- Supply of QA/QC Inspectors
- Supply of Metallurgist / Chemist



Where technical **excellence** meets trusted **results.**



Laboratory Testing Services

Trust our laboratory testing to validate strength, durability, and material integrity every time - reliably and confidently.



Technical Expertise

Credibility

Equipped with advanced technology and accredited expertise, we ensure accurate results and dependable inspection outcomes across every project.





Mechanical Testing

Strength

Delivering accurate strength evaluations to ensure material reliability and performance integrity.



Chemical Testing

Precision

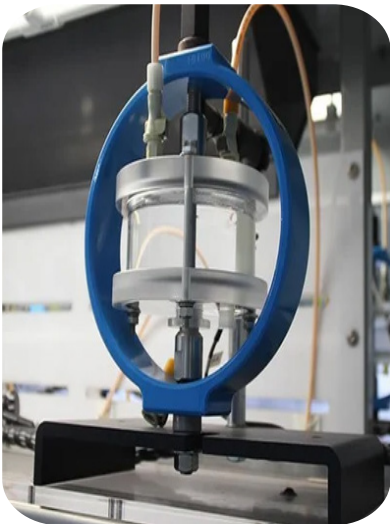
Our advanced chemical analyses provide accurate, reliable data to ensure product consistency, quality control, and compliance.



Failure Analysis

Insight

Uncovering root causes through expert investigation to enhance reliability, reduce downtime, and prevent recurring component failures.



Corrosion Testing

Protection

Evaluating corrosion resistance to safeguard materials, extend lifespan, and ensure long-term durability and safe operations.



Metallurgical Testing

Intrinsic

Measures intrinsic properties to guarantee metals maintain required strength, toughness, and durability for industrial performance.



Replica Testing

In-situ

Enables non-destructive metallography, capturing intrinsic material properties, monitoring degradation, without component removal.

Failure Analysis

Failure analysis is a multi-faceted, holistic approach to determining how and why a material or product failed. Failure analysis is a critical aspect of product development and system improvement which not only helps us learn from the past, but helps prevent future failures.

Our teams of expert metallurgists, chemists, and materials scientists are recognized as some of the most experienced in their field. They have decades of hands-on experience in performing root cause analysis for failures across many sectors, including Aerospace, Oil & Gas, Steel.



The Principal Task of a failure analyst during a physical cause investigation is to identify the sequence of events involved in the failure.

The tools of failure analysis include test machines and analytical instruments and also conceptual tools. They include various pattern recognition skills (in the interpretation of macrofractographs, microfractographs, and metallographic images) and engineering and scientific knowledge based on physical metallurgy, polymer physics, solid-state physics, stress analysis, chemistry, and many other fields.

In addition, investigations of a failure employs various tests and techniques to characterize the condition of material and its properties. The process is complex, draws upon many different technical disciplines, and uses a variety of observation, inspection.

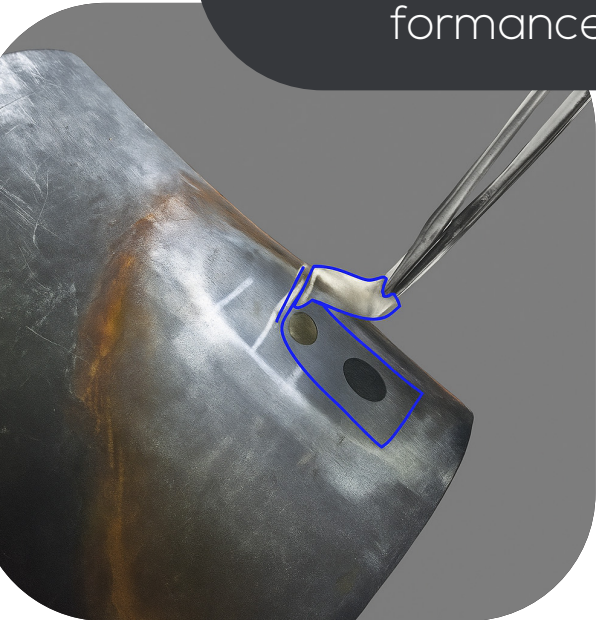


Identifying root causes
of failures to enhance
**reliability, safety, and
performance.**

Replica

Test

In-situ replica metallography reveals metals' microstructures, enabling non-destructive evaluation to ensure strength, durability, and advanced material performance.



1. Grinding

Surface irregularities and oxidation are removed by sequential abrasive grinding, creating a smooth, uniform surface for accurate replica formation and analysis.

2. Polishing

Fine polishing eliminates micro-scratches from grinding, producing a mirror-like finish, ensuring the replica faithfully captures the metal's microstructure without distortion.

3. Etching

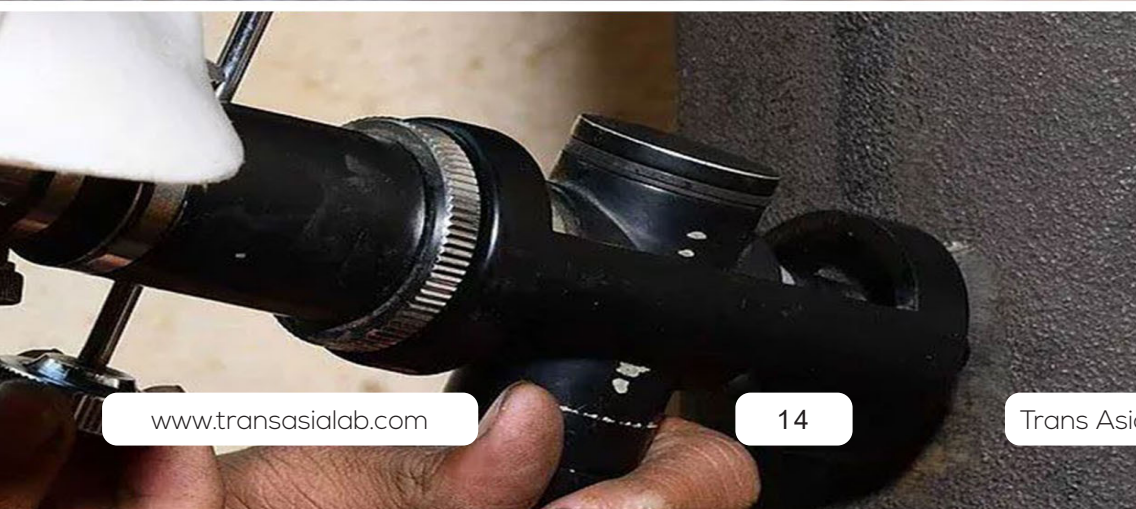
A chemical or electrolytic etchant selectively reveals microstructural features, grain boundaries, and phases on the polished surface, enhancing contrast for evaluation.

4. Evaluation

The prepared replica is examined under optical or electron microscopy to assess microstructure, defects, phase distribution, and ensure material strength and reliability.



Revealing metals' **intrinsic** and inherent structures.



NDT

Solutions

Detect flaws, ensure integrity, and build trust with advanced non-destructive testing solutions designed to identify defects, validate material performance, and maintain operational excellence.



Technical Expertise

Detection

Backed by accredited expertise and equipped with both conventional and advanced NDT technologies, we provide accurate results and dependable insights that safeguard your assets and operations.

Our comprehensive non-destructive testing solutions uphold quality and integrity in every inspection, ensuring reliability, safety, and performance across all stages of your project.



Conventional and Advanced NDT

Detection and Solutions

Fully equipped to perform a complete range of Non-Destructive Testing (NDT) services, including X-Ray and Gamma Radiography, Ultrasonic Flaw Detection, Phased Array Ultrasonic Testing (PAUT), Eddy Current Testing, Fluorescent and Conventional Magnetic Particle Testing, Liquid Penetrant Testing, as well as Visual and Borescopic Inspection—ensuring accuracy, reliability, and integrity across every inspection.

Backed by ASNT Level III certified professionals, a team of certified operators and accredited to ISO 17020, we bring experience across ASME and API standards to deliver reliable and comprehensive NDT solutions.



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Ensuring Defects **Never Pass.** Safeguard your materials and structures with our NDT Solutions.

NDT

Solutions

Our Non-Destructive Testing (NDT) services deliver precise, reliable, and internationally compliant inspection solutions to ensure the integrity and safety of materials, components, and structures.

Using advanced techniques such as PAUT, TOFD, IRIS and conventional NDT such as ultrasonic, radiographic, magnetic particle, and dye penetrant testing, we help industries detect hidden flaws without compromising performance. Our expert team ensures adherence to global quality standards, supporting clients across sectors like manufacturing, oil and gas, construction, and aerospace.





Radiographic Testing (RT)

Ultrasonic Testing (UT)

Magnetic Particle Testing (MPT)

Dye Penetrant Testing (DPT)

Visual Inspection (VT)

Phased Array Ultrasonic Testing (PAUT)

TOFD and Image Analysis

Tank Floor Inspection

Magnetic Flux Leakage (MFL)

IRIS Inspection

Eddy Current Test (ECT)

Alternating Current Field Measurement (ACFM)

Vacuum Testing

Ferrite Testing

Positive Material Identification (PMI)

Coating Thickness Measurement

Portable Hardness Testing

Conventional NDT

Solutions

Radiography Testing (RT)

Absorption

Radiographic Testing is a highly reliable Non-Destructive Testing (NDT) method used to detect internal discontinuities and structural inconsistencies in materials and welded joints. It is widely applied across industries to evaluate the integrity of welds, castings, structures, and composite components.

Using gamma-ray sources such as Ir-192, Se-75, or Co-60, as well as X-ray equipment, RT produces detailed images that reveal hidden defects like porosity, lack of fusion, inclusions, and service-induced cracks or corrosion.



Ultrasonic Testing (UT)

Modulation

UT is used to detect internal flaws, discontinuities, and material irregularities in welds, castings, forgings, and composites. It is particularly effective where radiographic testing is impractical due to geometry or limited access.

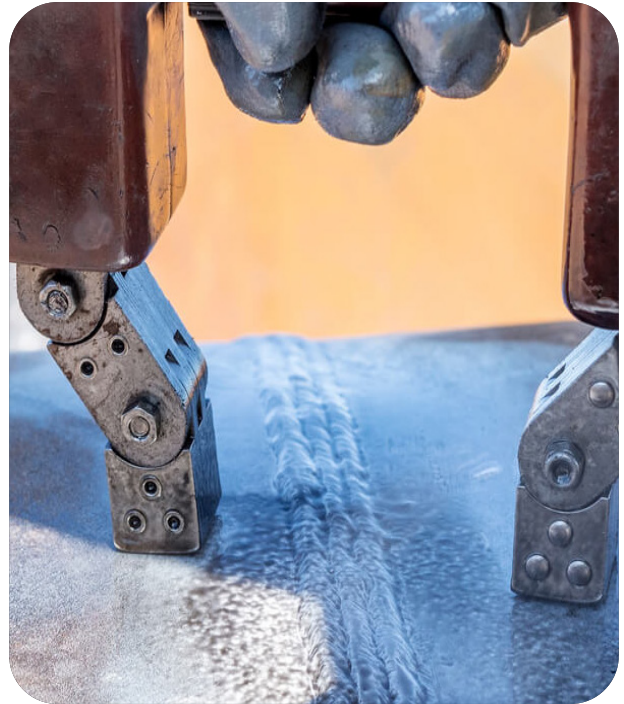
The technique involves transmitting high-frequency ultrasonic waves into a material and analyzing the reflected signals displayed on an instrument screen. Variations in these signals indicate the presence of defects such as cracks, lack of fusion, or inclusions—including size, depth and orientation.

Magnetic Particle Testing (MPT)

Accumulation

MPT is used to detect surface and near-surface defects in ferromagnetic materials. It involves temporarily magnetizing the component using an energized yoke to create a magnetic field. During magnetization, magnetic particles are applied to the surface—any discontinuities cause a disturbance in the magnetic field, forming visible indications at defect locations.

MPT is a fast and cost-effective inspection method widely used in the oil and gas, automotive, and manufacturing industries for detecting imperfections.



Ensuring hidden flaws are detected, structural integrity is verified, and component quality meets the highest industry standards—so your critical assets operate safely, efficiently, and with complete reliability.



Conventional NDT

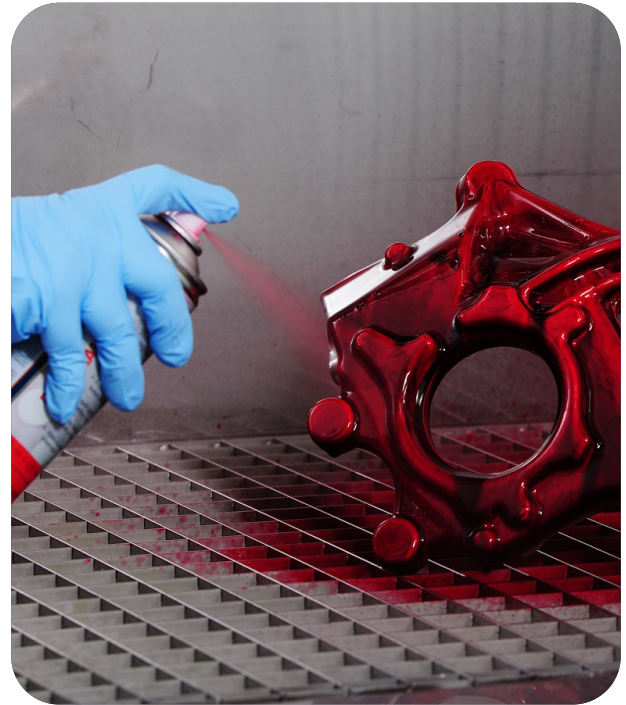
Solutions

Dye Penetrant Testing (DPT)

Capillary

DPT is a widely used NDT method for detecting surface-breaking defects on non-porous materials. Suitable for both ferrous and non-ferrous components, DPT identifies cracks, porosity, and other surface imperfections.

The process involves applying a brightly colored or fluorescent penetrant to the component's surface, allowing it to seep into any flaws. After removing excess penetrant, a developer is applied, which draws out the trapped dye, making flaws visible as surface indications under appropriate lighting.



Hardness Testing (HT)

Rebound

A site hardness test refers to a hardness test that is performed on location, or "on-site," using portable equipment. It measures a material's resistance to localized, permanent deformation by pressing a hard indenter into its surface under a specific force.

Leeb method: Ideal for large, heavy components and provides fast, consistent results.

UCI method: Suitable for small, thin, or complex-shaped parts, including hard-to-reach areas.

Visual Testing (VT)

Strength

VT is the process of examining components by sight to identify defects, irregularities, or verify compliance with quality standards. It is a fundamental, cost-effective method widely used in quality control, maintenance, and inspection across industries, from manufactured products to infrastructure such as pipelines and storage tanks.

VT can be performed with the eye or enhanced using tools like magnifying glasses, cameras, or borescopes, depending on the complexity and accessibility of the component.



Detecting hidden flaws with precision, verifying structural integrity, and ensuring components meet rigorous industry standards—guaranteeing safe, efficient, and reliable asset performance.



Advanced NDT Solutions

01 Phased Array Ultrasonic Testing (PAUT)

PAUT is an advanced NDT technique using multiple ultrasonic elements and electronic beam steering to detect, size, and characterize flaws in welds and complex components. Offering real-time imaging, high accuracy, and detailed flaw mapping, PAUT ensures reliable integrity assessment across oil & gas, power, and aerospace industries.



02 Time of Flight Diffraction (TOFD)

TOFD is an advanced ultrasonic NDT technique used to detect, locate, and size flaws in welds and components. Measuring wave diffraction time provides accurate flaw sizing and depth. TOFD offers rapid scanning, reliable defect characterization, and comprehensive weld integrity assessment across oil & gas, power, and fabrication industries.

PAUT and TOFD provide advanced ultrasonic inspection with high-resolution imaging, accurate flaw detection, and precise sizing. Combined, they ensure full weld coverage, rapid scanning, real-time results, and reliable defect characterization—delivering superior quality assurance, structural integrity, and compliance with industry standards.



Phased Array Ultrasonic Testing (PAUT) and Time of Flight Diffraction (TOFD) are complementary advanced ultrasonic Non-Destructive Testing (NDT) techniques that provide comprehensive inspection of welds, pressure vessels, pipelines, and structural components. When combined, PAUT's high-resolution imaging and TOFD's precise flaw sizing deliver unparalleled accuracy in defect detection and characterization.

This powerful combination enables complete coverage of critical weld zones, reduces inspection time, and enhances the reliability of results compared to conventional ultrasonic or radiographic testing. Widely used in oil & gas, power generation, and fabrication industries, PAUT and TOFD together ensure structural integrity, safety, and compliance with stringent quality standards.



PAUT and TOFD are advanced ultrasonic inspection techniques used for detecting, sizing, and characterizing defects in critical components. Their high accuracy, rapid data acquisition, and comprehensive coverage make them essential tools for ensuring quality, safety, and reliability in industrial inspection programs in applications such as-

Applications:

- Weld inspection for quality and defect detection.
- Volumetric inspection of forgings and castings for internal flaws.
- Erosion and corrosion mapping for asset condition assessment.
- Scanning of complex geometry components with challenging access.
- Detection of hydrogen-induced cracking (HIC), stress corrosion cracking (SCC), and stress-oriented hydrogen-induced cracking (SOHIC).
- Inspection of pressure vessels, piping, and tubing welds.
- Evaluation of vessels and piping fabricated with composite materials.
- Accurate sizing data for fitness-for-service (FFS) assessments and life extension planning.



Advanced NDT

Solutions

Tube Inspection

Tube Inspection: In industrial facilities such as refineries, chemical plants, and power stations, tube inspection plays a vital role in ensuring the reliability and efficiency of heat exchangers, boilers, and condensers. Tubes are constantly exposed to varying process conditions, including high temperatures, pressure fluctuations, and aggressive chemical environments, which can lead to corrosion, erosion, pitting, cracking, or wall thinning.

Our comprehensive tube inspection services adhere to international standards, providing detailed assessments and actionable insights to ensure optimal heat transfer performance and operational safety across diverse industrial applications.

Non-Destructive Testing (NDT) of tubing and surfaces utilizes a range of advanced techniques, each selected based on the application, material type, and inspection objectives. These methods enable the detection of internal and external flaws, corrosion, cracking, and other forms of degradation without compromising the integrity of the equipment.

By applying a single or combined approach from the following technologies, our experts ensure precise and comprehensive evaluation of tubular systems:

- Eddy Current Testing (ECT)
- Tangential Eddy Current Array (TECA)
- Eddy Current Array (ECA)
- Near-Field Testing (NFT)

- Near-Field Array (NFA)
- Remote-Field Testing (RFT)
- Magnetic Flux Leakage (MFL)
- Internal Rotating Inspection System (IRIS) (Ultrasonic Testing)

These state-of-the-art inspection techniques allow for accurate defect characterization, reliable data interpretation, and enhanced asset integrity management across a variety of industrial applications.



01

Eddy Current Testing (ECT)

ECT is used to inspect conductive materials, particularly tubing in steam generators, heat exchangers, and petrochemical equipment. The technique is highly sensitive for detecting surface and near-surface defects, such as pits, cracks, and corrosion, although sizing of wall loss may be less accurate.

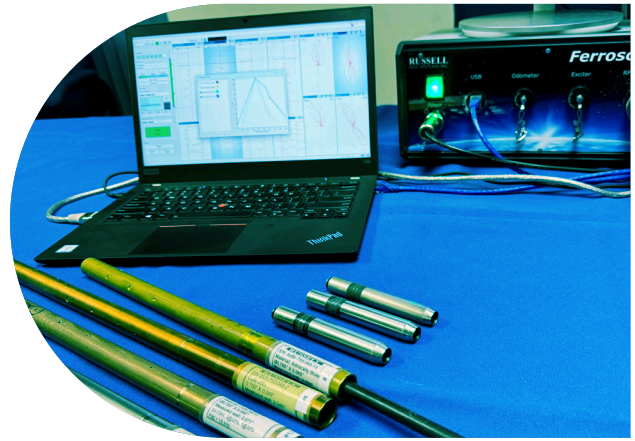
ECT operates by inducing alternating currents in a coil, generating a magnetic field. When the coil is brought near a conductive material, opposing eddy currents are generated in the material which can identify flaws for the applications which include:

- Inspect tubing in heat exchangers
- Detect pits, cracks, corrosion
- Identify early-stage material flaws



PEC is an advanced electromagnetic NDT technique used to inspect conductive materials, especially in situations with limited access or when surfaces are coated or insulated.

PEC generates a short, high-energy electromagnetic pulse that induces eddy currents in the material. The resulting signal



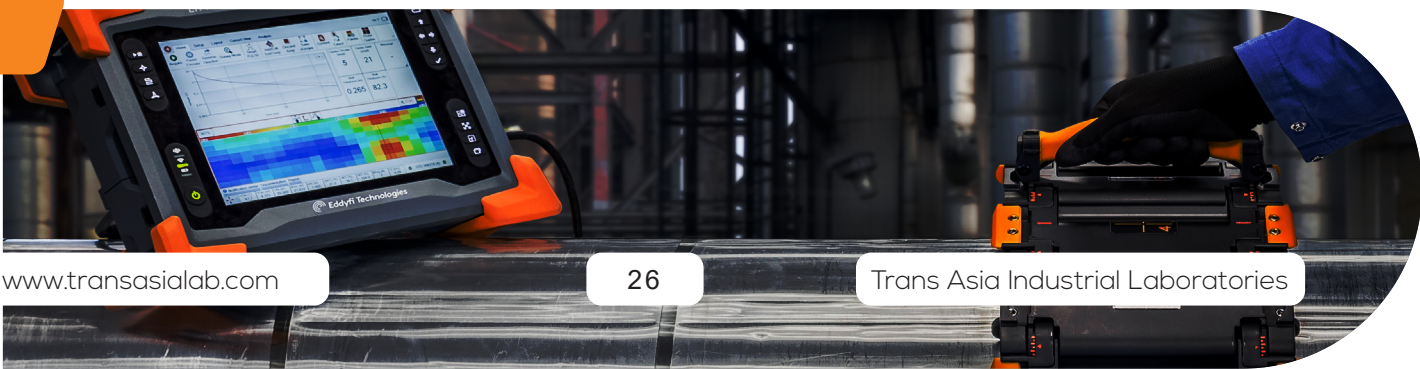
- Assess petrochemical equipment condition
- Monitor wall thinning and erosion
- Support maintenance and safety decisions
- Facilitate non-contact, rapid inspections

02

Pulsed Eddy Current (PEC)

is captured and analyzed to detect corrosion, wall loss, and other near-surface defects accurately, without the need to remove coatings, insulation, or surface layers and the applications includes:

- Inspect coated or insulated materials
- Detect corrosion under insulation
- Measure remaining wall thickness
- Identify early-stage material degradation
- Assess pipelines and pressure vessels
- Support preventive maintenance programs
- Facilitate rapid, non-contact inspections
- Evaluate difficult-to-access structures



Advanced NDT Solutions

Magnetic Flux Leakage

Magnetic Flux Leakage (MFL) is a highly effective Non-Destructive Testing (NDT) technique used to detect corrosion, pitting, and wall loss in ferromagnetic materials such as carbon steel tubes, pipelines, and storage tanks.

The method involves magnetizing the material and measuring any leakage of the magnetic field that occurs where flaws or thinning are present. These disturbances in the magnetic field provide valuable insights into the location, size, and severity of defects.



Applications of Magnetic Flux Leakage (MFL) Testing:

- ***Pipelines:*** Detects corrosion and metal loss in oil, gas, and water pipelines.
- ***Storage Tanks:*** Identifies floor corrosion and thinning in tank bottoms.
- ***Heat Exchangers & Boilers:*** Finds wall loss in ferromagnetic tubes.
- ***Pressure Vessels:*** Detects localized corrosion or fatigue damage.
- ***Steel Cables:*** Monitors broken strands and structural wear.
- ***Ship Hulls & Offshore Structures:*** Assesses corrosion in marine environments.
- ***Industrial Equipment:*** Aids preventive maintenance by spotting early corrosion.



Magnetic precision, unmatched protection – MFL reveals what the eye can't see.

Advanced NDT

Solutions

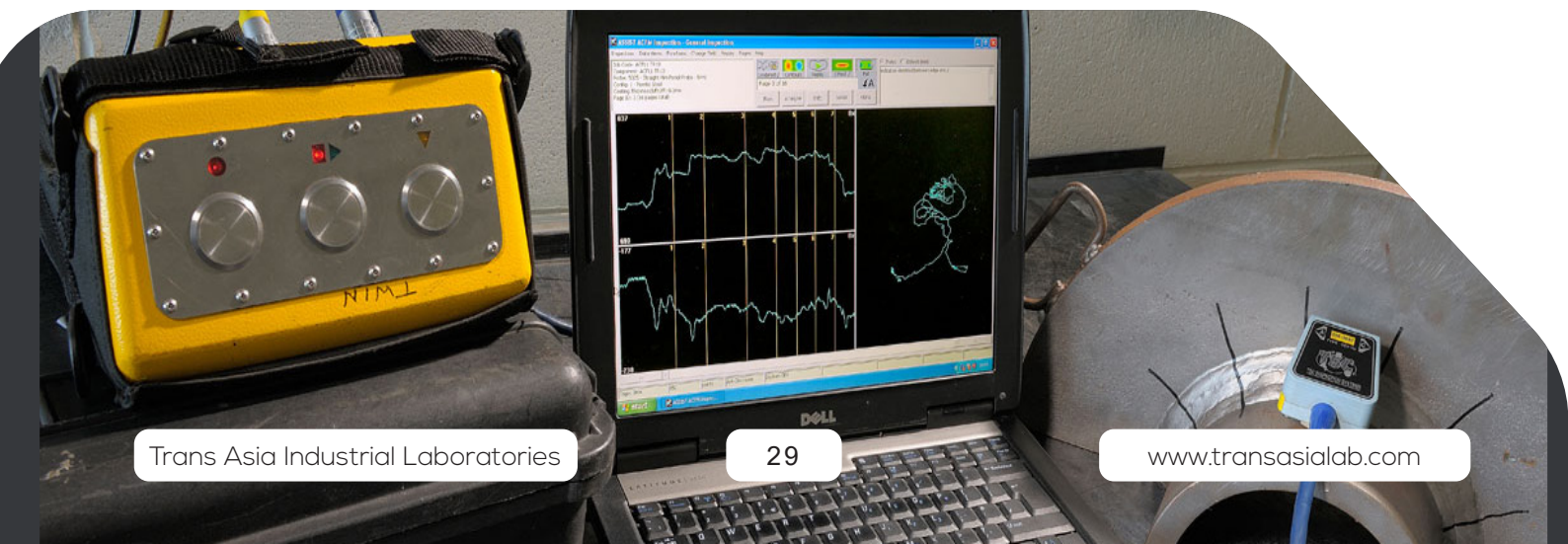
Alternating Current Field Measurement

A CFM is an advanced Non-Destructive Testing (NDT) technique designed to detect and size surface-breaking cracks in metal structures without the need for direct electrical contact or surface coatings removal.

It uses an alternating current to induce electromagnetic fields on the surface, and any disruption in these fields indicates the presence of a crack.

We utilize state-of-the-art ACFM technology to deliver accurate, repeatable, and digitally recorded results – even in challenging environments.

Unlike traditional magnetic particle or dye penetrant testing, ACFM provides quantitative data on crack length and depth, allowing for precise defect assessment.





Applications of (ACFM):

- **Welds:** Detects surface cracks in structural and pipeline welds.
- **Offshore Structures:** Finds fatigue cracks in platforms and subsea equipment.
- **Pressure Vessels:** Identifies flaws in welded joints and nozzles.
- **Pipelines:** Locates surface-breaking cracks in critical areas.
- **Structural Steel:** Inspects bridges, cranes, and heavy machinery.
- **Aerospace & Marine:** Ensures integrity of vibration-prone components.
- **Coated Surfaces:** Detects cracks without removing paint or coating.



The smarter way to detect cracks—fast, accurate, and coating-friendly.

Post-Weld Heat Treatment

01 About PWHT

Post-Weld Heat Treatment (PWHT) is a controlled heating and cooling process applied to welded components after welding is completed. Its main purpose is to reduce residual stresses, improve mechanical properties, and enhance the overall performance of the welded structure.

02 Purpose of PWHT

When metal is welded, intense localized heat causes rapid expansion and contraction, leading to the formation of internal stresses, hard microstructures, and potential brittleness in the HAZ. If left untreated, these can result in cracking, distortion, or premature failure.

03 Need of PWHT

A vital part of ensuring the strength, safety, and reliability of welded components, especially in demanding environments. It's typically required when the welding process introduces high residual stresses or when metallurgical properties must be precisely controlled to meet performance or code requirements.

At the heart of every strong weld lies the science of precision – and that's exactly what Post-Weld Heat Treatment delivers. PWHT is a vital process designed to relieve stresses, restore strength, and ensure the long-term reliability of welded components.

If your welds face high stress, heat, or critical service, PWHT is the key to keeping them strong, stable, and compliant.



**Every degree
counts.**

This process helps:

- Relieve residual stresses induced by welding.
- Reduce hardness and brittleness, improving toughness and ductility.
- Enhance dimensional stability and minimize distortion.
- Restore corrosion resistance in certain alloys.

Typical cycle for Carbon Steel:

- Temp.: 590°C to 675°C
- Heating Rate: 220°C/Hour
- Soaking Time: 1 Hour/inch of thickness
- Cooling: Controlled as per code



Parameters

PWHT parameters (temperature, holding time, and cooling rate) depend on factors like the base metal type, thickness, welding process, and code or standard (such as ASME, API, or ISO).



Application

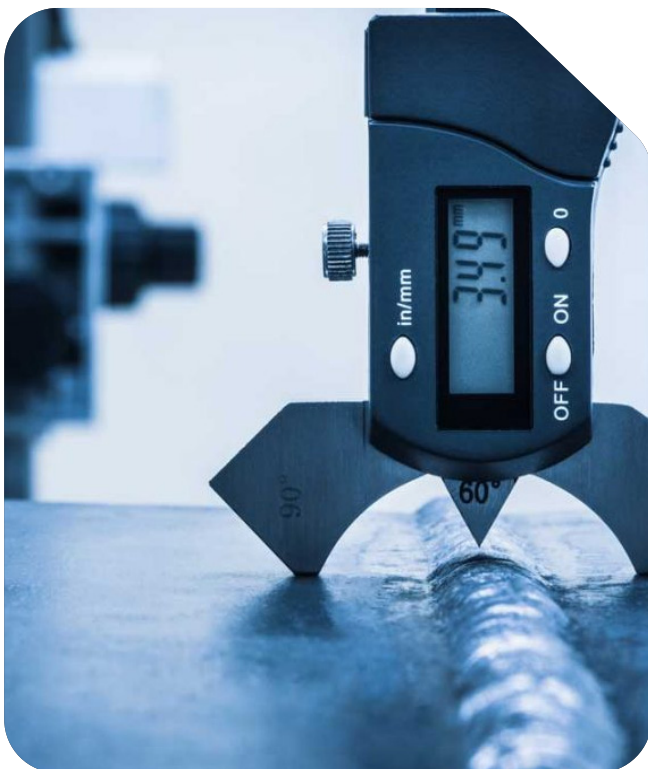
PWHT is essential for ensuring long-term reliability and safety of critical welded structures—particularly in industries like oil and gas, power generation, pressure vessel fabrication, and heavy engineering.



Field Inspection

We deliver comprehensive inspection and integrity management solutions that ensure safety, reliability, and compliance across every stage of your asset's lifecycle.

Our services cover a complete range of inspection and integrity management solutions, tailored to meet the



diverse needs of our clients across industries.

We deliver comprehensive assessments, quality assurance, and expert consultancy to ensure your assets operate safely, efficiently, and in full compliance.

Backed by a team of certified professionals and advanced technology, we provide seamless support from field inspection to project execution – helping you maintain performance, reliability, and confidence in every operation. Our services cover a full spectrum of inspection needs – including API 510, 570, and 653 inspections, welding



and coating assessments, fitness-for-service evaluations (API 579), and condition monitoring. We also provide Level III consultancy and the supply of skilled QA/QC, painting, and coating inspectors to support your operations seamlessly.



Field

Inspection

Our field teams combine advanced technology, certified expertise, and industry best practices to help clients in oil & gas, power, petrochemical, and industrial sectors maintain operational excellence. Our Core Services Include:

- *Plant and Pipeline Integrity Surveys* – Assessing asset condition to ensure safety and reliability.
- *Shutdown and Turnaround Inspections* – Fast, accurate inspections to minimize downtime.
- *In-Service Inspection / Condition Monitoring* – Monitoring equipment performance to prevent failures.
- *Fitness for Service Assessment (API 579)* – Evaluating equipment for safe continued operation.



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Excellence in every inspection, reliability in every result, confidence in every project.

- **Welding Inspection** – Ensuring weld quality and compliance with standards.
- **Painting & Coating Inspection** – Verifying coating integrity for corrosion protection.
- **Tank Inspection (API 653)** – Assessing tank integrity and regulatory compliance.
- **Piping Inspection (API 510)** – Inspecting piping systems for safety and performance.
- **Pressure Vessel Inspection (API 570)** – Ensuring pressure vessels meet operational standards.
- **Welder Qualification Tests** – Certifying welders and validating procedures.
- **Level III Consultancy Services** – Expert support for NDT compliance.



- **Supply of Painting & Coating Inspectors** – Providing certified inspectors for coating projects.
- **Supply of QA/QC Inspectors** – Supplying qualified personnel for quality assurance activities.

Our Clients



We serve our clients with precision, integrity, and timely solutions, ensuring reliable testing, accurate results, and exceptional service quality that consistently meet their expectations and earn their long-term satisfaction and trust.

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Clients trust us because, we deliver—precision, quality and reliability. Zero coffee spills guaranteed!



Major Projects

Over the years, TIL has successfully executed a diverse portfolio of major projects across the oil, gas, petrochemical, marine, and industrial sectors. Each project reflects our unwavering commitment to precision, quality, and reliability, as well as our ability to meet complex technical requirements and tight schedules. Through these landmark projects, we have not only strengthened our technical expertise but also built enduring relationships with leading industry clients, demonstrating reliability, innovation, and excellence at every stage. This section highlights some of the key projects that showcase our capabilities, professional standards, and the trust our clients place in us.



**Bold projects,
flawless execution.**

- 
- Dubai Exhibition Center (DEC) Expansion
 - Hassyan Coal Power Plant, Phase-1
 - Guggenheim Museum - Abu Dhabi
 - Habshan-0: ADNOC
 - Masaar Development-Infrastructure, Sharjah
 - EPC2 Tinrhert Field Development Project
 - Jubail Industrial Gas Network Project
 - Emirates Global Aluminum (EGA) Shutdown
 - Integrated Manufacturing Facility (IMF), Jubail
 - JMC 333 / Triton 330 - Barge, Metito
 - Jurassic Production Facility (JPF), KOC
 - MMPS Gas Compression Project (MGCP), PDO
 - Hassyan Clean Coal Power Plant Phase 1
 - Deep Tunnel Stormwater Terminal, Dubai
 - Boiler Inspection, DEWA
 - Multi-Fuel Waste-to-Energy (WTE) Facility
 - Majnoon Sour Gas Treatment Facility Project
 - Moomba Carbon Capture & Storage Project

Stronger Together

As we reach the end of this journey through the capabilities and ethos of Trans Asia Industrial Laboratories, we invite you to envision our partnership in action. Our fully-equipped, multidisciplinary facilities—backed by ISO 9001, ISO 14001 and ISO 45001 certifications and accredited to ISO/IEC 17025 and 17020—deliver rigorous testing, insightful investigation and high integrity field services across the construction, oil & gas, petrochemical and offshore sectors.

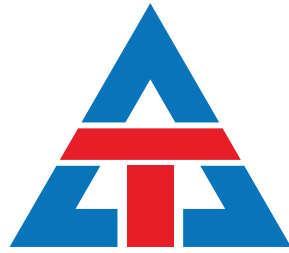
Whether you need material testing, corrosion evaluation, microbiological or

environmental analysis, or advanced NDT inspection – we bring the technical expertise, the quality systems and the dedicated team to exceed expectations.



Thank you for considering us
as your partner in excellence.
Let's build a safer, stron-
ger and more dependable
tomorrow – **together.**





TRANS ASIA

Industrial Laboratories

- | Precision
- | Quality
- ▶ Reliability

Your trusted partner in Testing, Inspection and NDT Services – delivering unmatched quality, reliability, and performance for every industrial need.

Get in Touch

Al Tayer Warehouse #10
Al Quoz Industrial Area-1
Dubai, U.A.E.

P: +971 4 884 7220

M: +971 50 841 9001

E: info@transasialab.com

W: www.transasialab.com

