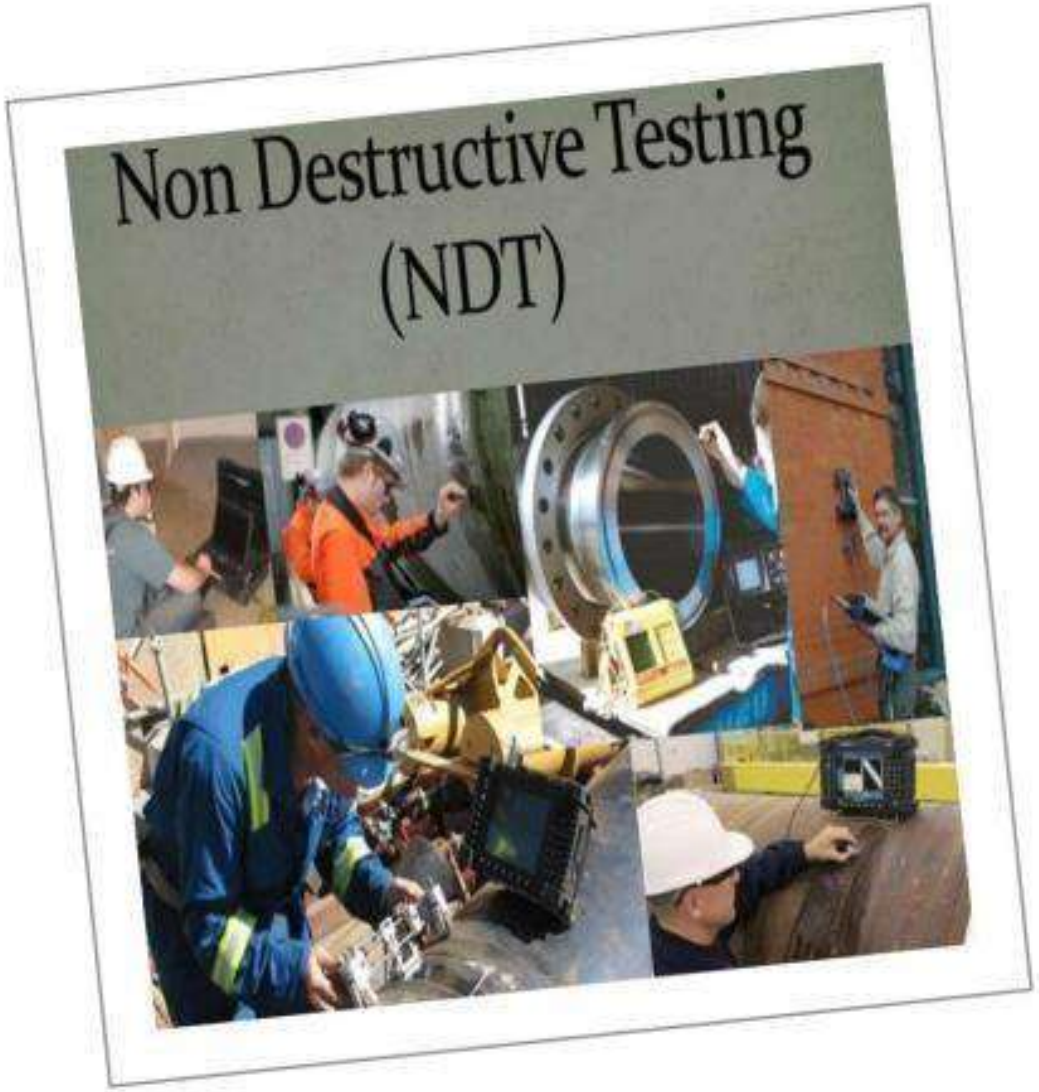
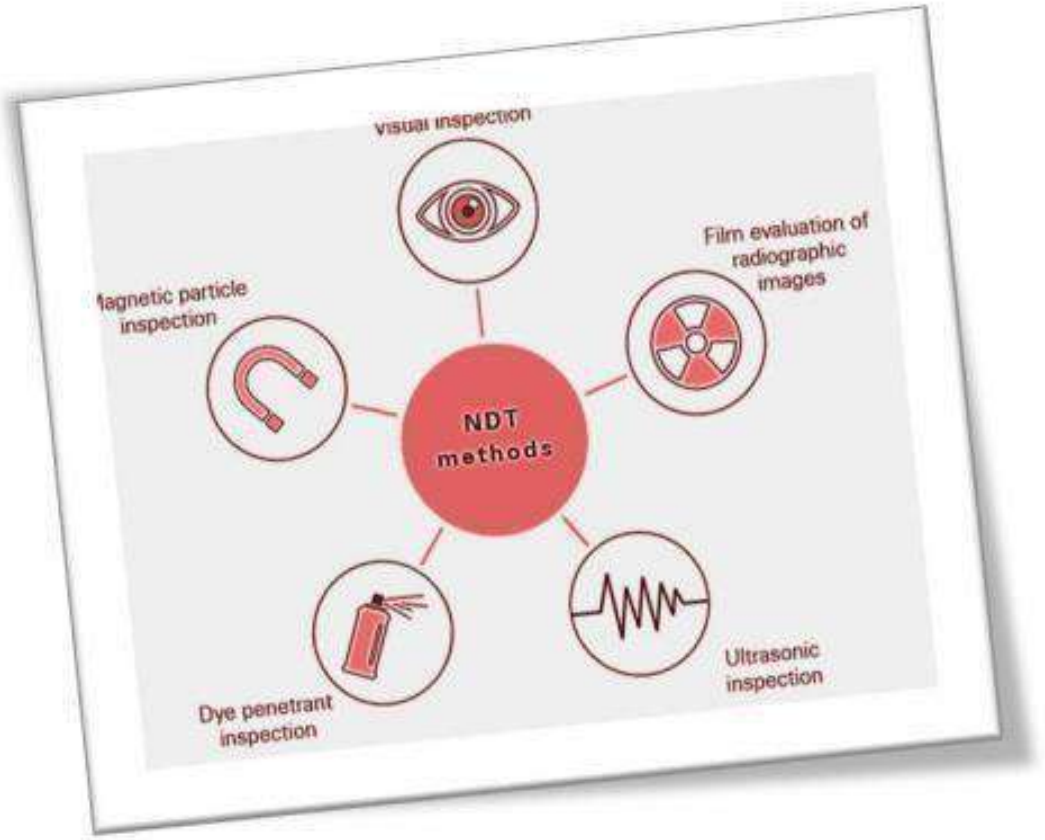
NON-DESTRUCTIVE TESTING

- **Nondestructive testing (NDT) is a wide group of analysis techniques used in industry to evaluate the properties of a material, component or system without causing damage.**
- **OUR NDT team is Qualified & certified According to (SNT-TC-1A) & According to (EN 473 & ISO 9712).**
- **our NDT equipment and tools are up to date, tested, calibrated, fully operational and supplied with its calibration certificate.**



NON-DESTRUCTIVE TESTING

- We provide wide range of conventional Inspection (NDT Test):
- Ultrasonic inspection (UT).
- Magnetic Particles inspection (MT).
- Radiographic inspection (RT).
- Liquid Penetrant Testing (PT).
- Visual inspection (VT).
- Hardness measurements.
- Painting inspection.
- pressure Test (hydrostatic , pneumatic)
- Vacuum Box Tests.
- Positive Material identification PMI.
- Holiday Detection Examination .



ADVANCED NDT TESTING

- **We offer wide range of Advanced Inspection which could be divided into main four sectors:**

Storage Tank & pressure vessel Inspection	Pipeline inspection
Welding Inspection	Tubular Inspection

ADVANCED INSPECTION

PIPELINE INSPECTION.

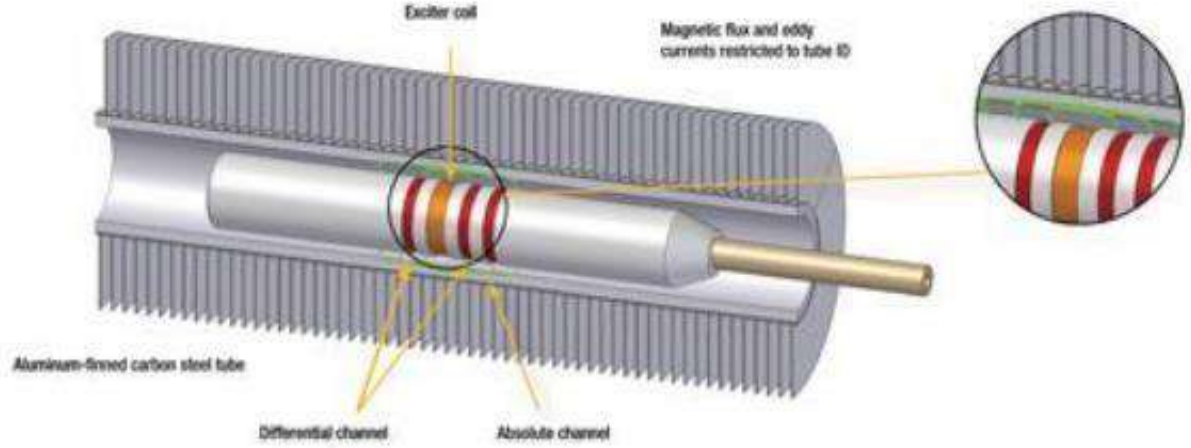
- 1) Long range ultrasonic (LRUT) for pipelines.
- 2) Phased Array Scanning of Piping Systems (PAUT).
- 3) Pulsed Eddy Current (PEC).
- 4) SRUT – Corrosion Under Pipe Supports

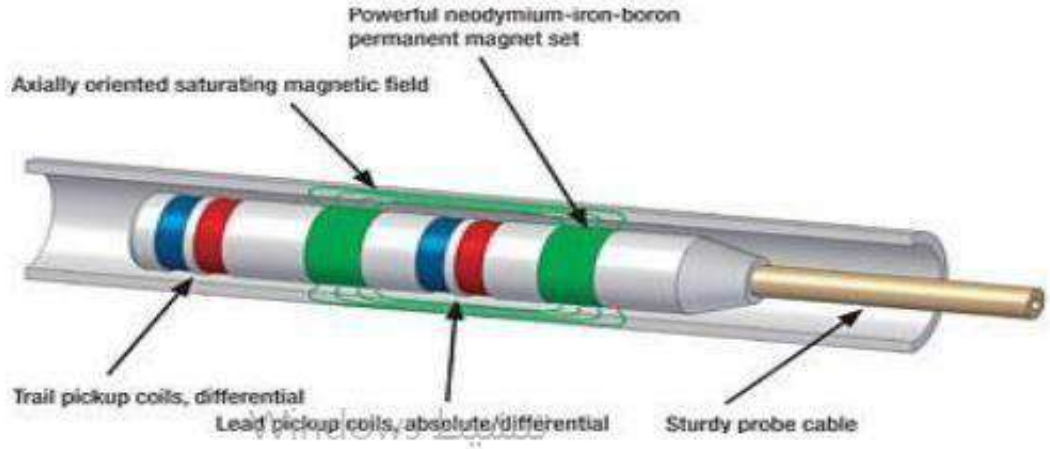
ADVANCED INSPECTION

TUBULAR INSPECTION

TUV Austria offer six techniques of tube inspection for heat exchanger , air cooler & Boilers

- **Tube Inspection with Eddy Current Testing (ECT).**
- **Tube Inspection with Internal Rotating Inspection System (IRIS) for Ferrous and Nonferrous Materials.**
- **Tube Inspection with Remote Field Testing (RFT).**
- **Tube Inspection with Near Field Testing (NFT)**
- **Tube Inspection with Magnetic Flux Leakage (MFL).**
- **Tube Inspection with Acoustic eye.**





ADVANCED INSPECTION

STORAGE TANK INSPECTION :

- 1) Magnetic flux leakage inspection (MFL).
- 2) Robotic tank inspection.
- 3) Acoustic emission inspection.
- 4) Short Range ultrasonic inspection.
- 5) Pulsed Eddy Current (PEC).

ADVANCED INSPECTION

WELDING INSPECTION :

- 1) phased Array ultrasonic inspection (PAUT).
- 2) Time of flight deflection (TOFD).
- 3) Acoustic Emission(AET) .

MATERIALS TESTING

Due to T.IC & TUVAUSTRIA Cooperation Agreement a wide testing and services are conducted in our labs . All TUV Austria laboratories is accredited to ISO/IEC 17025

- ➢ Chemical analysis.
- ➢ Tensile testing.
- ➢ Fatigue testing.
- ➢ Bending testing.
- ➢ Impact testing.
- ➢ Compression test.
- ➢ Macro & Microstructure analysis.
- ➢ Failure analysis services.
- ➢ Microscopic examination.

EQUIPMENT & TOOLS CALIBRATION.

1. **Valves and safety Valves**
   a. Conversers
   b. Flow computers, pressure gauges and Pressostats.
   c. Level gauges
   d. Magnetic, vortex, positive displacement, and mass flow meters.
   e. Pressure, level, temperature, and flow transmitters.
   f. Thermometers and thermo devices.
   g. Valves.
2. **Mechanical Tools.**
3. **Welding Tools.**
4. **NDT Equipment.**
5. **Gas Analyses.**
6. **Vessels and ISO Tanks.**

TANKS, SILO'S CALIBRATION SERVICES

- **Customers face a need for accurate volumetric tables and quantity measurement to control stock held in storage vessels. T.I.C can provide accurate and detailed measurement and calibration of storage tanks to ensure customers don't encounter issues.**
- **Up to date accurate calibration tables are an essential requirement for stock control and loss management.**
- **Volumetric Calibration tables is the ideal method for most tank, reactor, hopper and silo, saving time and money.**

FAILURE ANALYSIS

- **WE offer wide testing services with accurate results.**
- **All laboratories are accredited to ISO/IEC 17025.**
- **first step in a root cause failure analysis is data collection. During this step, T.I.C will collect information about how the device failed and when it occurred. We will also work with you to determine your goals for the failure analysis examination, determine how the part should operate, and consult with additional subject matter experts, if needed.**