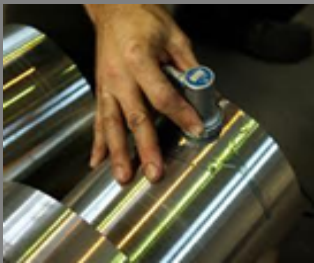


# KOREAN TECHNO INSPECTION MIDDLE EAST Co. LLC

NDT & 3RD PARTY INSPECTION  
SPECIALIST IN THE MIDDLE EAST



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# Greetings:

**W**e are pleased to introduce our Company, Korean Techno Inspection Middle East Co. LLC. "KTI" is being empowered by exceptionally experienced partners in Non-destructive Testing (NDT), Post Weld Heat Treatment (PWHT), Third Party Inspection (TPI) and various related businesses in the Middle East.

KTI is approved vendor with ADNOC Group. KTI won the two major projects and have successfully completed "BAB Gas Compression Project" with SK Engineering and "BAB Field Project" with ALSA Engineering at ADCO Habshan. We combine the advanced technology and experience accumulated in business, expressive facilities and qualified expertise to serve your project needs.

KTI was established in 2009, Since beginning, KTI has performed and gained experience in various types of Non-Destructive Testing (NDT) services while assisting both small and large projects. This experience includes and extends to oil & gas sectors for pressure piping, utility piping, pipelines, compression station, storage tanks, boiler & pressure vessels, heat exchangers, power station, welding structures and others.

KTI's more advanced NDT includes (PAUT) Phased Array Ultrasonic Testing, PMI (Positive Material Identification) for alloy steel, Ferrite Test for austenitic steel and duplex stainless steel and MFL (Magnetic Flux Leakage) for bottom plates of large storage tanks.

At KTI, we are proud to make our best efforts to keep up with the fast moving technological developments and will continue to strive for the highest quality services to meet your expectation.

Perfect performance of NDT and 100% quality assurance is our aim and also the very promise we will always give you.

Shukran Jazilan



**KOREAN TECHNO INSPECTION  
MIDDLE EAST Co. LLC**



## ABOUT US:

**KTI** (Korean Techno Inspection Middle East Co. LLC) is a specialist general NDT and third party inspection company registered in Abu Dhabi, U.A.E. It provides various technical services to the oil and gas refineries, petro-chemical, power plants and buildings throughout the UAE and Gulf markets. Our management and staff have a collective experience over 10 years in the field of Industrial Inspection and NDT (Non-destructive Testing).

We offer a full degree of expertise and quality work to all industrial sectors and can also offer a rapid response for advice by the qualified and professional personnel. We continually offer dedicated support whilst maintaining the highest standards.

Our technical services includes Radiographic testing, Ultrasonic testing, Magnetic particles testing, Liquid penetrant testing, Hardness testing, Eddy currents & Boroscopy. Other speciality services include corrosion monitoring, Painting and coating inspection which all come with our high standard of control. We at KTI are proud of our employees' performance, professional standards and efficiency throughout our operations. We are continuously improving the quality and range of our services in order to meet the requirements of the market.

Managed by highly qualified, dedicated and experienced technical personnel and supported by the specialists and consultants, we are capable of providing qualified resources of manpower on behalf of manufacturers, owners, engineering contractors and government agencies.

## OUR OBJECTIVE

Our Aim is to become the market leader in the UAE and the Gulf region by serving our clients with the highest level of effective quality NDT and third party inspection services.

Our objective is to render timely, effective and satisfactory quality services to earn our clients approvals and to play an active role in the development of specialized techniques and systems for non-destructive testing. We strive to provide the highest quality of NDT services in a timely manner to the benefit & satisfaction of our valued clients.

## OUR PROMISE:

It is our promise that we at KTI are committed to provide qualified and expertise inspection personnel and NDT services that will meet your expectations. We promise to add value to the inspection and NDT services by providing high calibre engineers, inspectors and technicians.





# Areas of Service

## NDT Services

Radiographic Testing (Gamma & X-ray Radiography)	Positive Material Identification (PMI)
Ultrasonic Testing	Leak Testing
Liquid Penetrant Testing, (Visible & Fluorescent)	Eddy Current Testing
Magnetic Particle Testing (Wet/ Dry), Visible & Fluorescent	Supply of NDT PWHT Technicians to On-shore & Off-shore Projects

## Inspection Services

3rd Party Inspection	Welding Inspection
Painting & Coating Inspection	Welder Qualification Inspection
Welding Procedure Specification (WPS)	Procedure Qualification Inspection
Non Metallic Inspection	GRE/ GRP Fiberglass Inspection

## Heat Treatment Services

Pre-Heating	Post Weld Heat Treatment (PWHT)
Local Heat Treatment	Furnace- Electrical
Furnace- Diesel Firing	

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# NDT Services

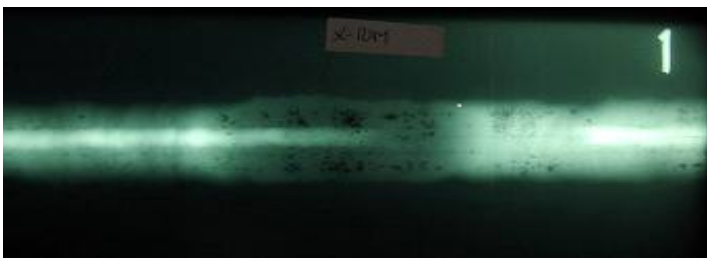
## Radiographic Testing

Radiography is used extensively to reveal discontinuities in a variety of product types, predominantly welds, castings, structures and composites.

Radiography is a versatile technique which can be used both in the workshop and on site, on large and small parts, with gamma rays and X-rays (with  $\gamma$ -rays isotopes and directional & panoramic X-rays generators).

## Digitization of Radiographic Films.

Digitization is a scan or digital imaging of radiographic films by a digitizer, used to store bulk quantity of films in a drive or CD for record keeping and review for verification at any time when required. We provide high resolution digitization of industrial radiographic films for your storage solution.



## Ultrasonic Testing

Ultrasonic inspection is a non-destructive method in which frequency sound waves are introduced into the material being inspected. Most Ultrasonic inspection is done at frequencies between 0.5 and 20 Mhz, well above the range of human hearing which is about 20 Hz to 20 kHz. The sound waves travel through the material with some loss of energy (attenuation) due to material characteristics. The intensity of sound waves is either measured, after reflection (Pulse echo) at interfaces (or flaw) or is measured at the opposite surface of the specimen (Pulse transmission). The reflected beam is detected and analyzed to define the presence and location of flaws. The degree of reflection depends largely on the physical state of matter on the opposite side of the interface and to a lesser extent on specific physical properties of that matter, for instance, sound waves are almost completely reflected at metal-gas interfaces. Partial reflection occurs at metal-liquid or metal-solid interfaces. Ultrasonic Testing has a superior penetrating power than radiography and can detect flaws deep in the test specimen (say up to about 6 to 7 metre of steel). it is quite sensitive to small flaws and allows the precise determination of the location and size of the flaws.



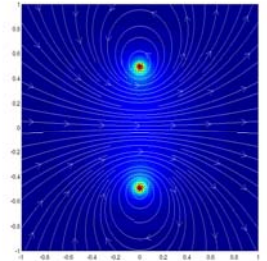


# NDT Services

## Magnetic Particle Testing

Magnetic Particle testing is widely used to detect surface flaws in ferromagnetic materials. It is used to locate surface and near surface defects such as cracks, laps, seams and inclusions.

Magnetic particle inspection is a cost effective and efficient method of testing ferromagnetic components for discontinuities. It is widely used in the automotive and aerospace industries to detect flaws in engine, suspension and braking system components.



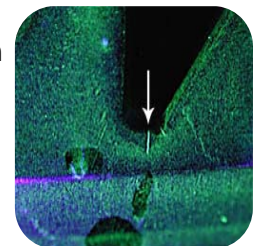
## Dye Penetrant Testing

Dye penetrant testing is widely used to detect surface breaking flaws in both ferrous and non ferrous parts. It can be used both on site or in a laboratory application with either colour contrast or fluorescent techniques.

In the laboratory it is particularly suitable for the inspection of batch quantities of machined parts and is a cost effective and efficient method of testing for surface breaking discontinuities.

At NDT Services we can provide water washable, post emulsifiable and solvent removable systems with full pre-cleaning and post test capabilities.

With our capacity, capability, collection and our delivery service, we can assure of a quality service with a fast turn around to help you achieve your production commitments.

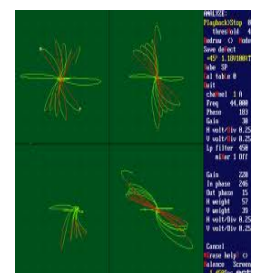


## Eddy Current Testing

This technique can detect surface and near surface irregularities in ferrous and non ferrous materials by inducing an eddy current field in the part under test.

This is a highly portable technique. The equipment is light, there is no need to remove any surface paint and it is ideal for on site applications, the inspection of aerospace parts and structures including wheels and brake assemblies.

Specialised techniques are available for the on site inspection of tube bundles, typically in heat exchangers and air conditioning units.





# TPI Services

## Positive Material Identification (PMI)

Positive material Identification (PMI) provides elemental analysis and material grade identification for most alloys, metal powders, sintered alloys, metallic coatings, and precious metals.

Our versatile, hand held, rapid analyzer employs multiple calibration and testing options with as built-in data library of over 2000 possible elemental compositions for on-the-spot, accurate material matching, identification, and analysis. Our equipment can analyze alloying elements in C, S, Alloys Steel, Stainless Steel, Tool Steel, Ni Alloys, Cobalt Alloys and Copper Alloys.





# TPI Services

## **Manufactory Inspection**

Manufactory Inspection is a varied professional service with a wide variety of technical requirements, commodities and Clients instructions to interpret, analyze and act upon.

The company maintains procedure manuals for coordination and inspection, which these are used for overall guidance, they can be customized to suit an individual Client's particular requirements.

## **Quality Assurance And Quality Control Management**

We apply a systematic approach to ensure that the Vendor or Fabricator maintains a level of Quality Assurance and Quality Control to meet the job requirements with Client's requirements, and the Vendor or Fabricators own Quality Assurance and Quality Control Manual are both separately and jointly reviewed to ensure that the Vendor's plan meets job specification requirements.

Qualified personnel then monitor the Vendor's application of his Quality Assurance/Quality Control Manual and/or plan to ensure compliance.

## **Quality Assurance And Documentation Management**

Through its manpower resources, KTI has the capability to support the Quality Assurance/Quality Control function of project management teams. On projects, the management contractor may not have the necessary expertise available or may not wish to recruit personnel to specifically fulfill the Quality Assurance and Quality Control role.

We can help in a number of ways, by assuming the role of Quality Assurance and Quality Control managers or by seconding specialist inspection personnel to an existing Quality Assurance and Quality Control team. These services can be provided during design, procurement and manufacture and/or during site fabrication, installation and commissioning.



*“When it comes to quality,  
we do not compromise”*

# Quality Policy

**I**t is our quality policy and promise to all our clients that we will conduct our business in a good professional manner and demonstrate technical competence and reliability while continuously improving and providing a cost-effective service to meet your requirements. For this purpose, we have established and implemented a formal quality system. It is our goal that this commitment to quality will result in complete customer satisfaction throughout our service.

This will be achieved by:

- ◆ Compliance to ISO9001:2015 Quality Management System.
- ◆ Continual improvement in the effectiveness of the management system.
- ◆ Ensuring all staff familiarizes them with the content of the Quality Assurance Manual and complies with the policies, procedures and associated documentation and implement at all times.
- ◆ Providing a service built on a well established Quality Management System meeting the requirements of our clients and current regulations / standards.
- ◆ Providing accurate and unbiased test results in accordance with the requirement of international or National or Internal or Customer specified test method.
- ◆ Undertaking assignments only where it has the required competent staff and equipment, which are calibrated and maintained.
- ◆ Building staff skills through training and providing career growth opportunities to all employees.
- ◆ Improving profitability of company in accordance with guidelines set by shareholders every year.
- ◆ ~~###~~ Advising the customer, where appropriate, of potential problems detected as a result of Tests or investigation in a timely manner
- ◆ Ensuring that this Quality Policy and the Quality Objectives are reviewed periodically for continuing suitability

AHMAD RAAD  
Managing Director  
Korean Techno Inspection





*“Safety is our 1st Priority”*

# HSE Policy

## Occupational Health, Safety & Environmental Policy

**W**e express our responsibilities and commitment to continuously promote Occupational Health, Safety and Environment management system based on ISO 14001:2015 & OHSAS 18001:2007 that significantly contributes to the company's achievement by preserving and developing human and physical resources, by reducing costs and liabilities as a result of accidents.

Through a programme of continual improvement, we will demonstrate our commitment to :

- ◆ ##### Complying fully with all relevant HSE legislations, standards, Guidance and codes of practice;
- ◆ ##### Ensuring that wherever possible HSE risks and hazards, are eliminated, combated or minimised;
- ◆ Ensure all employees are competent to do their tasks, and to give them adequate training;
- ◆ Prevent accidents and cases of work-related ill health;
- ◆ Provide information, instruction and supervision for employees;
- ◆ Ensuring raw materials, articles and wastes are correctly handled, used stored to avoid damage to the health of employees or the environment;
- ◆ Maintain safe and healthy working conditions;
- ◆ Ensuring all liquid and solid wastes are treated and disposed of in a responsible manner; and
- ◆ Ensuring visitors or members of the public are safeguarded from hazardous operations.

**AHMAD RAAD**  
Managing Director  
Korean Techno Inspection





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**OUR ASSOCIATES:**

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