

# KNES

SIGNIFIES PERFECTION



Coming together is a beginning,  
staying is progress, and working  
together is success.

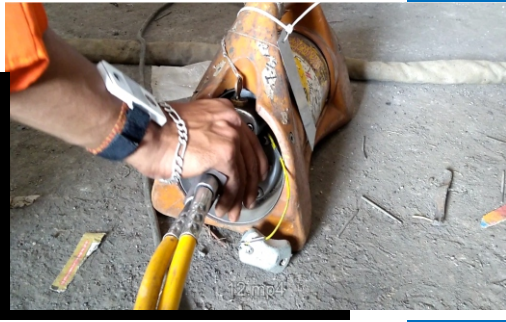


**Kaizen NDT & Engineering Services** has been established in 2013 by a core group of eminent NDT professionals with rich 30 plus years of experience.

**Kaizen NDT & Engineering Services** is an **ISO 9001:2015 Certified company** in India for Non- Destructive Testing, Consulting services and Training & Certification in NDT. Our Clients includes prominent companies from Manufacturing Sector, Nuclear Sector, Oil & Gas Industries, Automobile Industries, and Fabrication of structures. Our commitment to quality is concrete through our comprehensive Quality Assurance program.



# SERVICES OFFERED



## Radiography Testing

Kaizen NDT & Engineering Services provides radiography services in the field right at the customer's location. We have Modern testing equipments perfectly equipped for high sensitivity applications.



## Ultrasonic Testing

Ultrasonic Testing (examination) can be used in several different aspects of non-destructive testing (NDT). With today's advanced technologies, radiography can often times be replaced with good UT techniques. With the proper techniques and under the guidance of highly qualified technicians, Kaizen NDT & Engineering Services employs the latest Ultrasonic equipment and techniques to get to the root of the examination.



## Magnetic Particle Inspection

Our portable power packs, yokes and equipment provide the foundation for Kaizen NDT & Engineering Services to provide fast and reliable magnetic particle examinations with a multitude of approved techniques. These include visible and fluorescent in both wet & dry formats and can be performed just as easily in a fabrication shop or out in the field.



## Liquid Penetrant Testing

Despite being one of the most popular NDT methods, liquid penetrant testing (examination) is often incorrectly conducted. Kaizen NDT & Engineering Services ensures that our technicians whom carry out liquid penetrant inspections are properly trained and qualified by either ISNT standards or by ASNT SNT-TC-1A standards.



## Positive Material Identification

Positive material identification (PMI) enables a component's material grade or chemical composition to be determined. To provide you that assurance Kaizen NDT & Engineering Services employs the latest high-tech equipment matched up with highly competent and trained technicians



### **Ferrite Testing**

At Kaizen NDT & Engineering Services, we use only the latest ferrite testing equipment available coupled with highly trained specialists conducting the tests. This will assure you that you are obtaining the most accurate information possible for your non-destructive testing (NDT) needs



### **Visual Inspection**

As the need became more and more prominent for visual inspection, Kaizen NDT & Engineering Services rose to the challenge and formed our own Visual Inspection Department.



### **Hardness Testing**

Kaizen NDT & Engineering Services uses the latest hardness testing equipment and highly trained technicians for the delivery of non-destructive testing (NDT) services, to assure that your hardness test readings are both accurate and reliable.



### **Holiday Testing**

Holiday testing is a non-destructive test method applied on protective coatings to detect unacceptable discontinuities such as pinholes and voids. The test involves checking an electric circuit to see if current flows to complete the circuit. This testing is used to find coating film discontinuities that are not readily visible. The testing is usually performed on tank interiors, chemical storage vessels and buried structures because of the importance of maintaining adequate coating protection in aggressive service environments.

# ADVANCED NDT

## Phased Array Ultrasonic Testing

Phased Array Ultrasonic Testing (UT) systems offer the greatest possibility of performing inspections with the ultrasonic beams of various angles and focal lengths using a single array of transducers. software control over the beam angles and focusing is achieved by application of precisely controlled delays to both the emission pulse and received signal for each element in an array of transducers, hence the term, "phased array".



## Time of Flight Diffraction

The TOFD technique is well suited for the detection and the sizing of all types of embedded flaws, especially those planar in nature. However, the detection of small near-the-scan-surface flaws can be more difficult due to the presence of the lateral wave response which often occupies several millimetre of the depth axis on images.



## Eddy Current Testing

KNES has a multi-functional system for tube inspection to detect wall thinning by using Eddy Current Testing. Its combined applications cover inspection of all kinds of condensers and heat exchanger units. The system makes it easy to detect corrosion, pitting and surface cracks in any type of materials.



## Infrared and thermal testing

Infrared thermography, a nondestructive, remote sensing technique, has proved to be an effective, convenient, and economical method of testing concrete. The system can detect internal voids, delaminations, and cracks in concrete structures such as bridge decks, highway pavements, garage floors, parking lot pavements, and building walls. As a testing technique, some of its most important qualities are that it is accurate; it is repeatable; it need not inconvenience the public; and it is economical.





## OTHER RELATED SERVICE



### Preheating & Stress Relieving

Heat Treating takes place below the melting point of the metal and changes in micro-structure take place within the solid metal. Changes in micro-structure are due to the movement of atoms within crystal lattices in response to heating or cooling over a period of time.



### RT FILM Digitization Services

At Kaizen NDT & Engineering Services, we are continually introducing value-added services to our NDT services. One such service, is our digitizing capability. We have constructed a special digitizing/film-reading room to accommodate the digital processing of large quantities of radiography film.



### API 510 Inspection

API 510 covers the in-service inspection, repair, alteration, and rerating activities for pressure vessels and the pressure-relieving devices protecting these vessels. This inspection code applies to all refining and chemical process vessels that have been placed in service unless specifically excluded.

# PRODUCTS



We represent many leading companies based in USA & Europe and look after the marketing & distribution of their products in India. We also support our customers with effective after sales services, technique related training and in application analysis.

We cater to a wide spectrum of industries ranging from manufacturing, heavy engineering, nuclear, aviation, research & development, refineries, petrochemicals, power stations etc. The equipment's we trade in are employed in quality control assessments during production as well as in postproduction stage, in-service inspection and maintenance activities of running plants, research and related activities etc.

## Infrared Thermography Cameras

SONEL SA has existed since June 1994. The company's founders were electrical engineers who had good knowledge of the market needs for specialized test equipment. In 1998 there was a change of name and legal status and as a result SONEL S.A. was established. Currently, the company operates within the Widnica Sub-Zone of the Wałbrzych Special Economic Zone.



## Liquid Penetrant & Magnetic Particle Inspection

The company MR® Chemie GmbH operates all over the world and is a manufacturer of specialised innovative products and devices for surface crack testing. In line with its corporate philosophy of "Providing maximum testreliability and environmental compatibility for clients", MR® Chemie is a company with a strong customerorientation which develops, produces, bottles and delivers everything itself. Its products and services are used by foundries and engineering, including high-end testing in the aviation and nuclear power industries. MR® Chemie holds the certificate EN ISO 9001:2000. Their consistently increasing sales figures, confirm the high level of customer satisfaction in the quality and cost-effectiveness of MR® Chemie products. MR® Chemie contributes notably to customer's safety! Competent, flexible, customeroriented, future -oriented - using environmental-friendly systems. In recent years, MR® Chemie has grown substantially, increasing its share of the international market many times over. Their distributors' network covers most of Europe; our products can be obtained worldwide via competent and efficient partners.



# Certification on NDT Welding Inspection

## NDT Inspection Services

Ultrasonic testing- UT  
Magnetic particle testing- MPT/ MT  
Liquid penetrant testing- PT/ DPT  
Radiography testing- RT  
Visual testing- VT  
NDT Level III Consultancy  
Welder qualification test  
PAUT & TOFD  
Post Weld Heat Treatment  
Radiography Testing  
Positive Material Identification

## NDT Level I/II certification training by KAIZEN NDT & ENGINEERING SERVICES

KAIZEN NDT & ENGINEERING SERVICES is a world class Non-destructive testing- NDT & Welding Inspection Training and Certification Institute serving clients & participants from different Sectors

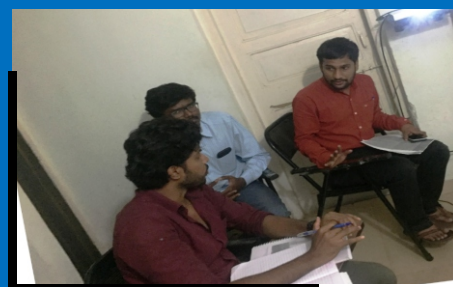
Reputation and professionalism built by KNES since over decade in NDT Inspection and training, today our certifications are most valuable asset for individual personnel profile and certified over professionals working worldwide since many years.

The training courses we offer on NDT & Welding Inspection are considered as most suitable and industry relevant. Certified engineers can be directly employed on various engineering projects/companies in manufacturing and in-service inspections to perform meaningful NDT interpretations, Special sessions on international NDT codes, standards and customer specifications/ NDT procedures are included for each course to understand and implemented for effective improvement of quality.

**Following is the brief list courses offered by KAIZEN NDT & ENGINEERING SERVICES are listed as below:**

### 1. NDT Certification training courses as per written practice framed to the requirements of SNT TC 1A.

- a. Phased Array Ultrasonic testing UT Level I/II,
- b. Time of Flight Diffraction Level I/II
- c. Ultrasonic testing UT Level I/II
- d. Radiographic testing Level I/II,
- e. Radiographic film interpretation Level II,
- f. Eddy current testing Level I/II,
- g. Magnetic particle testing Level I/II,
- h. Liquid (dye) Penetrant testing Inspections Level I/II,
- i. Ultrasonic Thickness Gauging Level II





# OUR MAJOR CLIENTS



Assuring you of our prompt services at all times and we are  
expecting your valuable enquires at the earliest.

Contact Details

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