

**LET OUR TEAM
PROTECT YOUR
ASSETS!**



NDT/NDE SERVICES



OUR SERVICES

- UT Thickness and Shear Wave
- Magnetic Particle Inspection (MPI)
- Dye Penetrant Testing (DPI)
- Positive Material Identification (PMI)
- Level III NDE Audits

UT THICKNESS AND SHEAR WAVE

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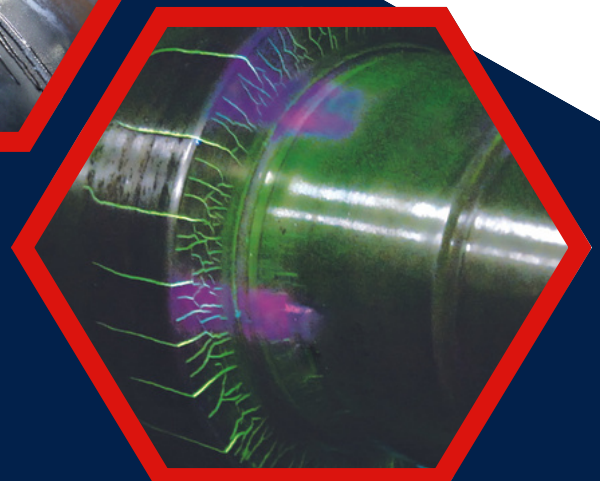
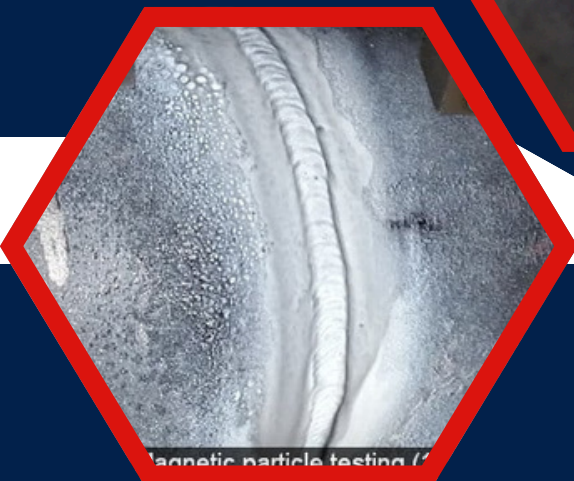
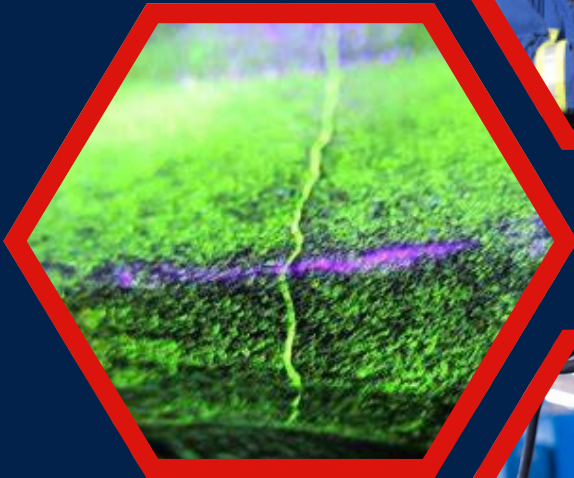
Ultrasonic Testing (UT) is a non-destructive testing technique that uses high-frequency sound waves to detect internal flaws or measure material thickness. By analyzing the reflections of these waves, technicians can determine the size, shape, orientation, and location of defects, making it valuable to utilize.

UT Shear Wave is a specific application within ultrasonic testing where shear waves (transverse waves that travel perpendicular to the direction of wave propagation) are used instead of longitudinal waves.



MAGNETIC PARTICLE INSPECTION (MPI)

Magnetic Particle Inspection (MPI) is a non-destructive testing method used to detect surface and near-surface flaws in ferromagnetic materials. It works by creating a magnetic field in the material and applying iron particles (either dry or suspended in a liquid) to the surface. If there is a surface or near-surface defect such as a crack, the magnetic field will cause the iron particles to gather around the defect, creating a visible indication of its presence.



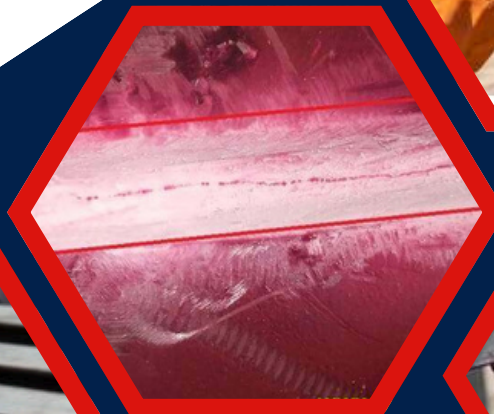
magnetic particle testing (

DYE PENETRANT TESTING

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Dye Penetrant Testing (DPT), also known as Liquid Penetrant Testing (LPT), is a non-destructive testing method used to detect surface-breaking defects in non-porous materials such as metals, plastics, ceramics, and composites. It involves applying a liquid dye penetrant to the surface of the material, allowing it to seep into surface-breaking defects through capillary action.

After a specified penetration time, excess penetrant is removed from the surface, and a developer (often a white powder or an aerosol) is applied. The developer draws out the penetrant trapped in defects, causing them to become visible as vividly colored indications against the developer's contrasting background.



POSITIVE MATERIAL IDENTIFICATION (PMI)

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Positive Material Identification (PMI) is a non-destructive testing method used to determine the elemental composition of metallic alloys and ensure they conform to specified chemical composition requirements. It involves using portable instruments such as X-ray fluorescence (XRF) analyzers or optical emission spectrometers to analyze the material's composition quickly and accurately.

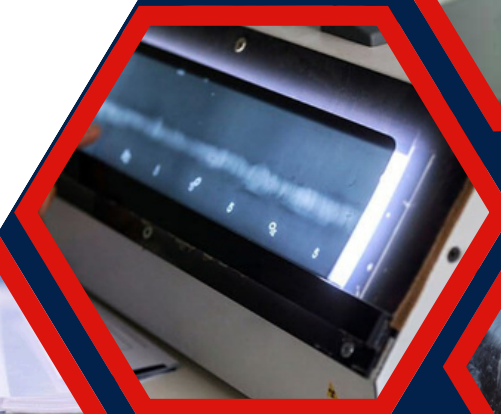


LEVEL III NDE AUDITS



NDE (Non-Destructive Evaluation) Level III Audits are systematic reviews conducted by highly qualified professionals within the field of non-destructive testing (NDT). These audits ensure compliance with standards, procedures, and regulations governing NDT practices. Level III auditors typically have extensive experience and expertise in NDT methods and are responsible for evaluating the effectiveness of NDT programs within an organization.

During an NDE Level III audit, auditors assess various aspects such as equipment calibration, technician qualifications, procedure adherence, record keeping, and overall quality assurance practices. They verify that NDT procedures are correctly followed, equipment is properly maintained and calibrated, and personnel are adequately trained and certified. Audits also aim to identify any areas for improvement to enhance the reliability and accuracy of NDT inspections.





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NDT/NDE SERVICES LIKE NO OTHER



INQUIRIES



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