



COMPANY PROFILE





About Us

Accutest is a premier provider of Non-Destructive Testing (NDT) services, specializing in advanced inspection technologies that ensure the structural integrity and safety of critical components and infrastructure. We deliver comprehensive solutions that empower clients across diverse industries including mining, oil and gas, manufacturing, refinery, and construction to make confident decisions about their assets.

Our cutting-edge techniques allow for the precise detection of potential flaws or defects in materials without causing damage, maximizing the reliability, performance, and lifespan of essential components while minimizing downtime and operational risks



OUR COMPANY

Mission & Vision

MISSION

- To deliver superior NDT solutions that safeguard quality, enhance operational efficiency and promote safety by using state-of-the-art technology, skilled personnel, and innovative methods.

VISION

- To be the trusted partner for Non-destructive Testing worldwide, providing cutting-edge, reliable, and cost-effective solutions for every industry we serve.

OUR COMPANY

Philosophy

At Accutest, we are guided by a set of core principles that define our approach to Non-Destructive Testing and shape every aspect of our client relationships.

Unwavering Commitment to Quality:

Accutest places a strong emphasis on providing the highest quality NDT services. We rigorously adhere to industry standards and codes while ensuring continuous professional development for our technicians. Our stringent quality control measures guarantee accurate and reliable results that our clients can trust for critical decision-making.

Safety as Our Foundation:

Safety stands as our paramount priority for both clients and employees. We meticulously design our methods and practices to minimize risk while delivering valuable inspection results. Our comprehensive safety protocols are consistently followed, and we proactively identify potential hazards to prevent accidents before they occur.

Integrity in Every Inspection:

Accutest upholds the highest ethical standards, ensuring that all test results are honest and accurately reflect the true condition of materials and structures being inspected. We prioritize transparent communication with our clients, so they can confidently rely on receiving truthful and comprehensive reports for their critical assets.

Client-Centered Solutions:

We recognize that each client faces unique challenges. Accutest works closely with clients to thoroughly understand their specific requirements and ensures that all testing services align precisely with their objectives. This collaborative approach allows us to provide optimal value and actionable insights that directly support our clients' goals.

Excellence in Everything We Do:

Accutest is built to achieve and maintain a strong reputation for reliability, professionalism, and excellence. Our team is dedicated to providing safe, effective, and non-destructive inspection services that help organizations across industries protect their assets, ensure regulatory compliance, and optimize operational performance.

Innovation-Driven Approach:

We continuously invest in advanced technologies and methodologies to enhance our inspection capabilities. By staying at the forefront of NDT innovations, we provide our clients with access to cutting-edge solutions that deliver superior results while increasing efficiency and reducing costs.

OUR COMPANY

CORE SERVICES



MAGNETIC PARTICLE INSPECTIONS

Magnetic Particle Testing (MPI) is a non-destructive testing method used to detect surface and near-surface flaws in ferromagnetic materials. By applying a magnetic field and a fine iron particle suspension, MPI reveals cracks, seams, and other imperfections that may not be visible to the naked eye. This technique is highly effective for ensuring the integrity and safety of critical components in industries such as manufacturing, automotive, and aerospace. technology.

ULTRASONIC INSPECTION

Ultrasonic Inspection (UT) is a non-destructive testing method that uses high-frequency sound waves to detect internal flaws and measure material thickness. By sending sound waves through a material and analyzing the echoes that return, UT can identify hidden defects, such as cracks or voids, without causing any damage. This precise and reliable technique is commonly used in industries like aerospace, construction, and manufacturing to ensure the safety and integrity of critical components.



DYE PENETRANT INSPECTIONS

Dye Penetrant Inspection (DPI) is a widely used non-destructive testing method for detecting surface-breaking defects such as cracks, porosity, and leaks in non-porous materials. The process involves applying a liquid dye to the surface of a part, allowing it to seep into any surface defects. After a period of time, excess dye is removed, and a developer is applied to draw out the dye from defects, making them visible. This method is highly effective for ensuring the quality and integrity of components in industries like automotive, aerospace, and manufacturing.



EDDY CURRENT INSPECTIONS

Eddy Current Inspection (ECI) is a non-destructive testing method that uses electromagnetic induction to detect surface and sub-surface defects in conductive materials. By generating eddy currents in the material and measuring the resulting changes in the electromagnetic field, ECI can identify cracks, corrosion, and other material inconsistencies. This highly sensitive technique is ideal for inspecting parts like heat exchangers, aircraft components, and tubing, providing accurate results without the need for direct contact with the material.





RADIOGRPHIC INSPECTIONS

Radiographic Inspection (RT) is a non-destructive testing (NDT) method that uses high-energy radiation, typically X-rays or gamma rays, to examine the internal structure of materials. The process involves directing radiation through the material, with a detector on the opposite side capturing the transmitted radiation. Variations in the intensity of the radiation passing through the material create an image that reveals internal defects, such as cracks, voids, or inclusions. Radiographic inspection is widely used in industries such as aerospace, manufacturing, and construction, offering detailed insights into the internal integrity of components without causing damage.

VISUAL INSPECTIONS



Visual Inspection (VT) is a non-destructive testing method that involves the direct observation of a material or structure's surface to identify potential defects, wear, or damage. Using the naked eye or magnification tools such as mirrors, borescopes, or cameras, inspectors can detect issues like cracks, corrosion, and deformation. Visual inspection is a quick and cost-effective technique commonly used in various industries to ensure the safety and integrity of components without the need for complex equipment or procedures.

EARTH MOVING AND LIFTING EQUIPMENT



Earth Moving and Lifting Equipment Inspections are essential for ensuring the safety and reliability of heavy machinery without causing damage to the equipment. NDT methods, such as ultrasonic testing, magnetic particle testing, and visual inspections, are commonly employed to assess critical components like cranes, bulldozers, excavators, and hoisting equipment. These methods can detect surface and subsurface defects, such as cracks, fatigue, corrosion, and wear, that could lead to equipment failure.

For example, ultrasonic testing (UT) uses sound waves to detect internal flaws, while magnetic particle testing (MT) can reveal surface-breaking cracks in ferromagnetic materials. Visual inspections and dye penetrant testing (PT) are also used for routine checks. Regular NDT inspections help identify potential issues early, ensuring that machinery operates safely and efficiently, and minimizing the risk of costly repairs or accidents.

ADDITIONAL SERVICES

At Accutest Inspection & Consulting, we deliver comprehensive inspection solutions with a strong focus on Non-Destructive Testing (NDT). Our expertise spans multiple industries, allowing us to uphold the highest standards of quality, safety, and regulatory compliance across every project.

We provide end-to-end inspection services, beginning at the design and fabrication stages through to post-construction verification. Our team integrates advanced NDT methods—including Ultrasonic Testing, Eddy Current Inspection, Radiographic Testing, and Magnetic Particle Testing—to identify flaws and verify structural integrity without compromising materials.

Whether working on complex assemblies, critical structural components, or specialized parts, we are committed to precision, reliability, and safety. With proven experience in piping, structural steel, furnaces, boilers, and pressure vessels, Accutest ensures that all components meet or exceed relevant industry codes and standards. Our clients trust us to safeguard their assets and deliver consistent quality at every stage of the project lifecycle.

- FFS (Fitness for service) inspections on piping API 579
- FFS (Fitness for service) inspections on tanks API 579
- Structural inspections AWS D1.1/6
- Pressure vessel inspections ASME VIII Div.1
- Tank inspections API 650/653
- Piping inspections ASME B31.1/3 - API 570
- Power boilers ASME Section I

Accutest

Founder



DIRECTOR

I am Jaco Fourie, the Director at Accutest. With 14 years of experience in the NDT (Non-destructive testing) field, I have developed a deep passion for ensuring quality, safety, and innovation in everything we do. Throughout my career, I have worked on diverse projects, from small-scale repairs to large, complex builds, always emphasizing the importance of precision, integrity, and reliability.

As a leader, I am committed to fostering a collaborative environment where each team member has the opportunity to thrive and contribute to the success of our projects and inspections. I am proud to work alongside a talented team of professionals dedicated to delivering the best possible results for our clients.

My goal is to continuously push the boundaries of what we can achieve, while ensuring the highest standards in Non-destructive testing. At Accutest, we don't just meet industry standards—we exceed them.



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