Written by Amanda Martyka, Assistant Editor
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Keep the following information in mind as you seek out the best product for your specific needs.

Nondestructive testing (NDT) is crucial in ensuring the reliability, integrity and SAFETY of materials, components, equipment, vessels, processes, etc. Some NDT techniques can be used in a time-based program to monitor equipment components. Others can be used for examining suspected failures identified through different means, or as a way to check the condition of critical components when they are returned to service after maintenance. The following is a sampling of some of the companies and services offered in the field of nondestructive testing.

In this example of NDT, a Level II Radiographic Technician is performing X-ray fi lm interpretation. The X-ray film she is viewing is of small investment castings, which are being tested to determine if they contain discontinuities that would prevent them from being suitable for service.
(Photo Courtesy Quad City Testing Laboratory, Inc.)

Metallurgical Technologies, Inc. P.A.

Metallurgical Technologies, Inc. P.A. ("MTi") is a metallurgical analysis and testing laboratory that specializes in rapid response forensic engineering. Accurate test results are obtained using advanced analytical equipment and techniques. Results are interpreted and recommendations are made by licensed Professional Engineers who are recognized as experts in their field as well as recognized expert forensic engineers. The company provides a full spectrum of metallurgical engineering services including: failure analysis, corrosion and defect investigations, reverse engineering, SEM/EDS microanalysis, mechanical and weldment testing, chemical analysis, metallography, consulting, nondestructive testing, and litigation support to a wide range of clients in various industries. MTi also can provide testing and analysis results within 24 hours.

Metallurgical Technologies, Inc. P.A.
Mooresville, NC

Magnetic Analysis Corporation

Magnetic Analysis Corporation has over seventy years experience in nondestructive testing. They developed the first American made system using electromagnetic principles for the detection of flaws in steel products. Since then, MAC has grown to become a source of NDT services and equipment for testing metals. Their technology encompasses eddy-current, electromagnetic, fluxleakage and ultrasonic methods. Dedicated to a production oriented approach to testing, MAC offers both individual instruments and complete systems that incorporate materials handling as well as nondestructive testing. MAC field engineers are located throughout the United States, Europe and Australia.

Magnetic Analysis Corporation
Mount Vernon, NY

Quad City Testing Laboratory, Inc.

For more than 25 years, Quad City Testing Laboratory, Inc. (QCTL) has been providing testing and inspection services to all aspects of industry. QCTL is both field and laboratory capable in all nondestructive testing methods. Because they are not a repair service or a manufacturer, the company can provide its customers with an impartial assessment of the strengths and weaknesses of structural components. Services offered include: radiography (gamma & X-ray), magnetic particle (wet and dry), ultrasonic (shear & longitudinal wave), ultrasonic thickness integrity, liquid penetrant (visible & fluorescent), visual, hardness, holiday testing, eddy current, leak testing, mechanical (tensile/bend testing), technical consulting/level III services, welder and procedure qualifications, training and dielectric.

Quad City Testing Laboratory, Inc.
Davenport, IA

Predict Monitoring Systems Inc.

Founded in 1996, Predict Monitoring Systems Inc. is a service and training provider of predictive maintenance technologies. Over the past 10 years, they have expanded their services and markets throughout Ontario and Western New York. Predict Monitoring Systems Inc. offers a full range of nondestructive testing, which includes liquid penetrant, magnetic particle and ultrasonic inspection. All testing is performed by c.g.s.b. certified personnel. Applications include lifting equipment, corrosion monitoring, weld integrity, and commissioning of new equipment. Predict Monitoring Systems Inc. can recommend and implement inspection programs to help evaluate the condition of the customer's equipment and the quality of their products.

Predict Monitoring Systems Inc.
Welland, ON

Thielsch Engineering Corp.

Thielsch Engineering Corp.'s Nondestructive Examination (NDE) department offers both in-laboratory and portable field inspections utilizing radiographic, magnetic particle, ultrasonic, liquid penetrant, hydrostatic and videoborescopic examination techniques. Certified Welding Inspections (CWI) are also performed on a local, national and international basis as well as in support of the other divisions of Thielsch Engineering. The company's inspectors are qualified to meet the requirements of the American Society for Nondestructive Testing Practice SNT-TC-1A. Each nondestructive examination is performed to the requirements of major codes, including the ASME Boiler and Pressure Vessel Codes, the ASME/ANSI Codes for Pressure Piping, the American Petroleum Institute Codes, American Welding Society Standards and military specifications.

Thielsch Engineering Corp.
Cranston, RI

Zetec, Inc.

Zetec provides nondestructive (NDE) inspection solutions based on integrated multi-method technologies— eddy current, ultrasonic, remote field and magnetic flux leakage. The company offers complete NDE solutions worldwide, including a line of turn-key systems, instrumentation, software products, supplies, calibration, repair, training and inspection services. In addition, their customers bring Zetec hundreds of new nondestructive testing challenges. Zetec focuses on these customer applications to provide complete solutions as well as leadership for innovation and best practices in NDE inspections. Zetec's team of industry and technical experts—application engineers, probe designers, machinists, and assemblers—help to meet

those challenges.

Zetec, Inc.
Issaquah, WA

Quality Services Laboratories QSL-Plus

Quality Services Laboratories QSL-Plus offers a wide variety of testing techniques of equipment and materials. Inspection techniques include traditional nondestructive testing, such as GPR, PMI and MP; radiography and advanced testing, such as acoustic emission, automated UT and ACFM. They also provides specialized solutions for power equipment testing (power transformers, load tap changers, on-site DGA, high voltage bus bars, circuit breakers, instrument transformers, gas insulated substations, high voltage cables), transportation vehicles (aerial lift, fire apparatus) and the pulp and paper industry.

Quality Services Laboratories QSL-Plus
Trainer, PA

EMP Engineering Services, Inc.

Founded in 1997, EMP Engineering Services has provided services to clients in business segments from basic metals to component manufacturing to power generation. The company provides complete equipment management programs, including condition monitoring services for rotating equipment and power delivery systems and asset management services. These programs help customers drive down life-cycle costs associated with the ownership and use of power utilization and delivery equipment. EMP Engineering Services' condition monitoring employs the following technologies: vibration monitoring, motor circuit evaluation (MCE), infrared inspections and ultrasonic inspections.

EMP Engineering Services, Inc.
Dresher, PA

Conam Inspection and Engineering Services, Inc.

The CONAM organization's nondestructive testing capabilities include conventional NDT applications combined with advanced technologies. NDT services include ultrasonics, radiography, eddy current and remote field eddy current, magnetic particle, liquid penetrant, positive material identification and visual. Virtually all CONAM services are available within their growing network of laboratories or deployed to the field seven days a week, around-the-clock. These services are delivered by trained and experienced inspection professionals and supported by a management team dedicated to customer service. Industries served include refining, power generation, aerospace, petrochemical, automotive, construction, pulp and paper, transportation, metalworking, primary metals and defense.

Conam Inspection and Engineering Services, Inc.
Princeton, NJ

PTI Industries

PTI Industries utilizes state-of-the-art equipment and procedures to verify that the customer's parts meet required specifications. They specialize in the following nondestructive testing techniques: fluorescent and liquid penetrant inspect and magnetic particle inspeciton (MPI). PTI provides their customers with accurate results, quick turnarounds and low prices. Their experienced technicians, trained customer service personnel and quality-control department work to easily integrate their nondestructive testing operations into your production schedule.

PTI Industries
Enfield, CT

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