



The Creo Bolt Scanner



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COMPANY SPOTLIGHT

Actemium Non-destructive Solutions - **Actemium NDS**



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NEW PRODUCT LAUNCH

Thickness and Flaw Inspection Solutions - **Wire Encoder**



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Turnkey Solution for Reliable Digital X-Ray



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SUCCESS STORY

Museum Invests in Digital Imaging X-ray Technology

COMPANY SPOTLIGHT**ACTEMIUM NON-DESTRUCTIVE SOLUTIONS**

Actemium NDS

Inspection systems for NDT

Actemium NDS is your specialist for non-destructive testing (NDT) with ultrasound. For more than 50 years, we have been supplying our customers worldwide in the steel, aerospace and railroad industries with customized ultrasonic testing solutions for material inspection.

Products for NDT »● **SHUTTLE** ●

Ultrasonic inspection of hollow axles



In the railroad industry, hollow axles and hollow shafts with longitudinal bore are inspected at regular intervals with ultrasound. The SHUTTLE ultrasonic inspection system enables the detection of the possible defects in manufacturing and maintenance using local immersion technique.

● **SIRO-MAN** ●

Ultrasonic testing of discs and rings



The SIRO-MAN ultrasonic inspection system reliably inspects discs, rings and shafts. These are then further processed and used in large gearboxes as well as ball bearings, e.g. in wind turbines.

ACTEMIUM NDS

Contact information

Feel free to contact us!

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Gutenstetter Straße 14a
90449 Nürnberg
Germany

Get in touch with one of our NDT experts!

phone: +49 (0) 911 9943-0
e-Mail: info.nds@actemium.de
Web: <http://nds.actemium.de>

NEW PRODUCT LAUNCHED**EVIDENT**

Thickness and Flaw Inspection Solutions

Wire Encoder



Supplied with magnetic and suction cup mounting bases, the wire encoder is easy to install on ferromagnetic and nonferromagnetic surfaces. It's the tool of choice for training and procedure development, and the wire encoder can even be used on site to perform inspections when using other scanners is impractical.

A wire encoder system is unique compared to most manual scanners as its core is fixed to the part so that it remains stationary as the user moves the probe. This provides several advantages:

- Position readings are more precise and repeatable (no wheel slippage).
- The user can concentrate on manipulating the probe and paying attention to coupling without having to manage the pressure of a spring-loaded encoder.
- The increased freedom of movement enables slight adjustments of the probe skew, which can be advantageous when sizing cracks, for example.

Features

- 1-meter-long (3.3 ft) rugged stainless steel wire
- Compatible with ferromagnetic and other smooth surfaces
- Quick attachment system compatible with our universal holder (see below)
- Encoder resolution of 49.5 steps/mm

Universal Holder

Use the universal holder to attach the wire encoder or Mini-Wheel™ encoder in up to three different orientations to most phased array (PA) wedges. Installation is quick and easy, and no tools are required. The universal holder can also be attached directly to a phased array probe, enabling contact inspection when the use of a wedge is impossible.

EVIDENT
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COVER PAGE - FEATURED NEWS

Introducing
The Creo Bolt Scanner

CREO Modula is a highly adaptive and flexible scanning solution, capable of producing a fully encoded scan image using standard UT probes.

Quick | Easy | Reliable



This multi-purpose modular scanner is capable of scanning 1" to 3" studs and surface scanning circumference up to 400 mm diameter. The modular design allows the scanner to be reconfigured with various probe holders, switchable magnet, and face scanning arm.

Cam-linked adjustable legs ensure that when moving from one size of stud to another the scanner is always centralised, and the custom base plates allow for adjustable probe stand-off.

In a few simple steps the probe basket can be swapped with another attachment to setup for a completely different inspection such as with the magnetic base to allow for circumferential scanning of cylindrical components.



With its modular design and internally built encoder this scanner can be utilised in multiple configurations whilst remaining robust and suitable for extensive in-field operation.



Compatible with the Sonatest X2A and X2B Series probes.

Learn more about the Creo Bolt Scanner and its probe compatibility on the Sonatest website www.sonatest.com

The world's first rolling, ultrasonic scanning solution for concrete inspection coupled with an intelligent cloud-based system, giving you unique data insight.



- Scan with walking speed up to 4 km/h.
- Open up new business opportunities within the field of NDT concrete inspection.
- Get ahead of competition with faster execution, lower price and higher accuracy.

Time limited offer March 2023 Leasing agreements* starts at INR ₹87 500/month* including hardware, software and cloud storage.

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RAPID LARGE-SCALE CUI SCREENING SERVICES USING AUTOMATED RADIOGRAPHIC TESTING (ART) CRAWLER

Shutting down in-service lines and stripping insulation and coating before starting a traditional inspection is an inefficient allocation of money and resources for inspection and integrity managers.

MISTRAS' ART Crawler services utilize digital radiography (DR) to inspect for internal corrosion and CUI in your insulated and uninsulated aboveground piping and pipeline assets. These services help to reduce and/or eliminate the need to remove product or insulation from the lines.....

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Ashtead Technology launches new Drop Camera System for high-resolution subsea inspection



Ashtead Technology has launched its new standard drop camera system, part of a range of systems designed for high-resolution seabed visual inspection, in water depths down to 4000m.

The company's standard system is depth rated to 1000m, increasing to 4000m utilising sonar coaxial cable. It has been fitted with a high-specification digital camera which streams uninterrupted real-time HD 720P video during the survey, and records 16.6MP digital stills and 4K video for download at the end of the survey for live interpretation.....

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DRIVE NDT enables DEKRA to increase its efficiency with digital NDT workflow

DEKRA has approximately 48,000 employees and ranks as one of the foremost testing companies worldwide. A pioneering team is introducing the innovative DRIVE NDT to organize non-destructive testing and its peripheral processes at the BAYERNOIL site in Neustadt.

Digital processes are firmly embedded in all industrial fields these days. The resulting advantages are clearly seen by all companies and industries and their potential is also increasingly recognized for non-destructive testing. Benjamin Kleemann of the technical staff at DEKRA Incos GmbH sees digitization as a basic prerequisite for the future competitiveness of a company involved in NDT.....

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Real HD Image Platform
All Way Precise Joystick
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Repair Cost Control
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Intuitive Software

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EVENTS - Mark The Date



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"8th IRAQ INTERNATIONAL OIL AND GAS CONFERENCE AND EXHIBITION" and explore the latest technologies and services in the industry. Our company will be showcasing our innovative products and solutions that are transforming the industry. Don't miss the opportunity to connect with our team and learn more about how we can help you meet your business objectives. Our experts will be on hand to answer any questions you may have and demonstrate our products & services in action.



Find Everything You Need at AMPP Annual Conference + Expo!

The 5-day conference joins the former Corrosion and Coatings+ events into AMPP Annual Conference + Expo. The event features a robust program of technical symposia, forums, workshops, standards and administrative meetings, student poster sessions, networking and more. Join us for our second annual AMPP Annual Conference + Expo 2023 in Denver, CO.



Asia-Pacific Summit for Inspection & Maintenance Robotics

SPRINT Robotics' APAC Summit brings the major event for Inspection & Maintenance Robotics to the region. Together with our partner Petrobras, we are excited to present ANYmal X. It's the only legged Ex-proof robotic inspection solution available. Meet us in Singapore to see ANYmal X in action and talk to Satschin Bansal and Mukesh Mukundan.



The SPRINT Robotics Asia-Pacific Summit 2023

The Asia-Pacific Summit will be held in Singapore from March 22-23, 2023. Delegates will meet industry leaders across the global I&M Robotics value chain, ranging from asset owners and operators to service and technology providers. As new advancements are paving the way for further progress, presentations will cover a broad range of topics from scaling, integration and deployment to new technologies and platforms.



BINDT Workshop 2023: NDT of composites through life

This workshop will showcase NDT practices through all stages of the life of composite structures, bringing together industry specialists from a varied background of engineered components in a variety of industries, highlighting the NDT inspections that composite components undergo in the automotive, aerospace, motorsport, marine, construction, rail, nuclear and renewable energy industries.



We developed the GamCPR System to...

C - Cost saving

The need for production work to continue 24/7, whilst conducting Non-Destructive Testing in the form Industrial Radiography GAMCPR system

Q - Improved Image Quality

By Using A Radioactive Source That Will Provide High Quality Radiographs. The use of Se.75 for industrial radiography has gained wide ranging acceptance.

R - Improved Radiation Safety

The achievement of ALARA "As Low As Reasonably Achievable", due to reduction of the Primary Beam and scattered radiation to safe levels at the desired barrier distance, thereby enhancing radiation safety for all role-players.

Unlock Your Plant's Highest Potential



Traditional, paper-based inspection data reporting & scheduling processes can prevent plant teams from being as effective as they could be. Plants today need tools that streamline those mechanical integrity processes to enable them to focus on the things that really matter — safety, compliance, budgets, and uptime.

Developed for inspectors, by inspectors, MISTRAS Digital® is a mobile, cloud-based field inspection, execution, and reporting platform that digitalizes the field inspection process. This powerful, end-to-end workflow solution helps boost productivity by streamlining time-consuming, inefficient work processes to help your inspection, maintenance, and reliability teams.

MISTRAS Digital® enhances your team’s performance – for everyday responsibilities up to plant-wide oversight – with support for technicians.....

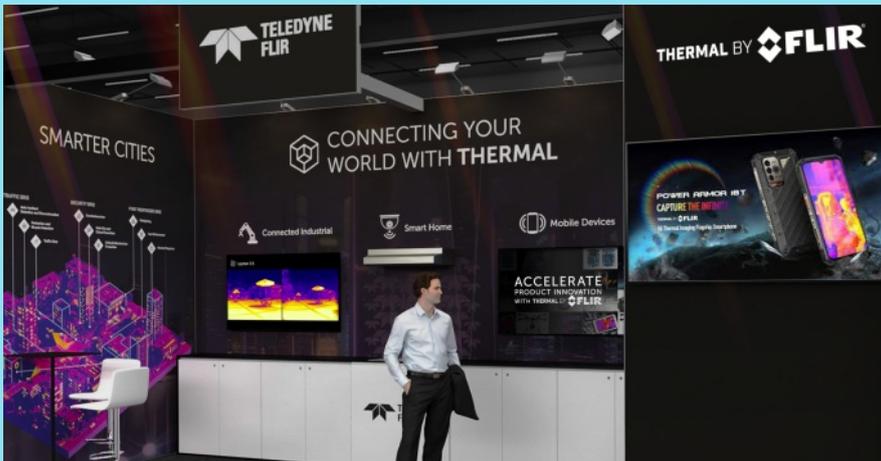
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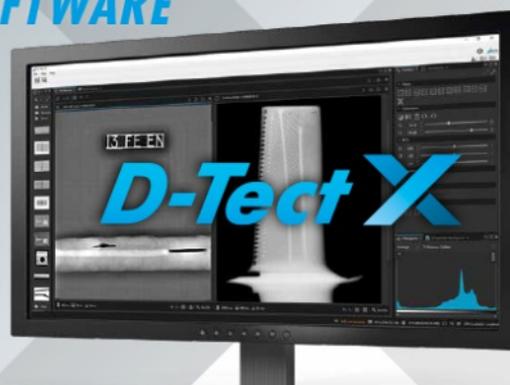


New Thermal by FLIR Powered Mobile Phones and Smart Building Sensor Featured at Mobile World Congress

Teledyne FLIR, part of Teledyne Technologies Incorporated, today welcomed new editions to its lineup of Thermal by FLIR products that will be shown at Mobile World Congress (MWC). The two new affordable, rugged mobile phones and a new smart building sensor to monitor room occupancy feature the Lepton® thermal micro camera module. The new handsets from Thermal by FLIR collaborators.....

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THE POWERFUL X-RAY SOFTWARE FOR CR SCANNERS AND DDAs



ARTICLE OF THE MONTH



Turnkey Solution for Reliable Digital X-Ray

The NOVOSCAN DR is a digital X-Ray system designed for NDT applications. Completed with up-to-date and the highest resolution digital X-Ray detectors in combination with NOVOSCAN Universal Digital Radiography Software and fulfilled with all kinds of accessories to make your workflow easy and productive.

Our team of technicians has developed a complete solution for your most diverse applications, from inspection of bends and welded joints, to inspection of jams and corrosion under insulation.

Years of experience in the development of such systems have allowed our technicians to achieve the highest level of quality, giving you the best possible experience with digital radiography systems.

Our systems stand on three pillars: quality, reliability, precision. This is made possible by a thorough approach to product development and understanding, not only on the part of the seller, but also on the part of the purchaser.



That's why we know what you need for comfortable, fast and, most importantly, efficient operation:

1. A quality detector with a long operating time, high image quality and a suitable protection class for the operating conditions
2. A control unit between the detector, the x-ray unit and the personal computer, enabling synchronised operation by providing a stable wireless/wired connection. GPS tracker, and in the case of our system also a powerful built-in battery, allowing recharging of the detector during operation and enabling operation in temperatures as low as -35°C.
3. Modern software with powerful filters, user-friendly interface and fast operation. NOVOScan software has all these advantages, giving the user the best possible experience.

WORLD'S FIRST BENDABLE DETECTORS



- High Resolution and image quality
- IP67 portable & rugged design
- Hot swap dual battery
- No image distortion on small diameters
- High energy range
- X-Ray and Isotope operation

CONTROL UNIT

A dedicated control unit transforms a conventional digital radiography system into an advanced solution that meets all the strict requirements and demands of non-destructive testing.

- Industrial Wi-Fi up to 200 m
- GPS
- X-ray synchronization
- Optional 8000 mAh detector battery
- Reinforced connectors and cables

NOVOSCAN DIGITAL RADIOGRAPHY SOFTWARE

One-stop solution for DDA, digitizers, IP scanners and image storage

- ISO 17636 and DICOM compliant
- Image acquisition
- Built-in filters for image enhancement
- Measurement instruments
- Automatic detection of wall thickness and double wall thickness
- Cloud sharing and PACS integration into your NDT infrastructure



High Temperature Weld Root Corrosion Inspection



Ultrasonic time-of-flight diffraction (TOFD) is a popular method widely used in petrochemical, energy and other industries for the in-service detection and characterisation of weld defects such as root corrosion, porosity, inclusions, and cracks. However, with increasing demand for on-stream measurements, conventional TOFD is limited due to the temperature at which these probes can operate, often causing failure of the transducer, or causing noise in the wedges to mask the ultrasound signal.....

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Baker Hughes and bp to Collaborate on Cordant to Enhance Asset Strategy Across Key Operations

Ecopetrol, Baker Hughes and the hydroelectric power plant Central Hidroeléctrica de Caldas (CHEC for its Spanish acronym) of Grupo EPM, signed a memorandum of understanding for the structuring of feasibility studies to implement a geothermal power generation project in the Nereidas Valley, located in the department of Caldas. This proposed geothermal power generation project initiative, which uses the high temperatures inside the earth.....

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Museum Invests in Digital Imaging X-ray Technology from DÜRR NDT

The Colonial Williamsburg Foundation (CWF) is the oldest and largest living history museum in the United States, offering access to a 301-acre Historic Area and outstanding museum exhibits for visitors. It is an active site for archaeology and research, with significant cultural collections, such as decorative art, American folk art, and architectural materials. The Foundation's collections represent a wide range of media such as paper, ceramics, textiles, various metals and wood.

As part of their meticulous investigation into the history and construction of these objects, as well as repairs and changes that may have been performed in the past, CWF recently added DÜRR NDT Computed Radiography (CR) and Direct Radiography (DR) capability to their X-ray lab, replacing their outdated film radiography process. The HD-CR 35 scanner and DRC 2430 digital detector array (DDA) eliminate the need for manual film developing and chemistry management, and no longer needing a darkroom liberates valuable space.

The flexibility of the new equipment, along with the ease-of-use of DÜRR's D-Tect X software, means that the large group of conservators can more efficiently and quickly perform their investigative tasks and share the resulting images with their peers.

As an example, this CR image of a painting of Susanna Cardwell McCausland (attributed to Joshua Johnson and dated ca. 1805) clearly shows canvas repair as well as underlying paint lines which provide evidence that the artist has changed his original composition during creation.

Because CR uses thin flexible imaging plates (IPs), it was possible to safely insert the IP between the canvas and the wooden stretcher to eliminate interference from the frame structure while capturing this image.



Another example where CR is the preferred method of image capture is where IP flexibility is important. In this example the IP was placed inside a large glazed ceramic mug (ca. 1815) in order to image one side without interference from the other. The resulting image clearly shows that the vessel has suffered significant damage and has been repaired with metal rivets, indicating that it was highly valued. Because the mug's repairs had been completely painted over, the extent of the damage was only revealed using radiography.

DR, on the other hand, uses a thicker imaging device which is not appropriate.....

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Vaarst launches next generation robotic technology to US subsea market



We are delighted to be introducing our world leading SubSLAM® X2 technology to the US market, following a strong year of activity across the UK, Europe and Africa.

The move continues the company’s global growth plans which saw it establish its first US base in 2022, to bring its expertise and capabilities in industrial robotics, computer vision, autonomy, and AI technologies to the Americas. As an alternative to conventional video imagery and other 3D modelling systems.....

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Verisurf Helps Launch ARTEMIS

Artemis I is the first integrated test of NASA’s deep space exploration systems: the Orion spacecraft, Space Launch System (SLS) rocket and the ground systems at the agency’s Kennedy Space Center in Florida. The first in a series of increasingly complex missions, Artemis I is an uncrewed flight test that will provide a foundation for human deep space exploration and demonstrate our commitment and capability to return humans to the Moon and extend beyond. AMRO Fabricating chooses Verisurf software to automate the production inspection of NASA SLS rocket panels. In space flight the first eight minutes are critical; this is when the greatest.....

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OIL & GAS NEWS



Exxon poised to invest \$15 billion in Angolan oil exploration and discoveries

Exxon Mobil Corp. could invest \$15 billion through 2030 if it makes commercial oil discoveries in the Namibe Basin, Paulino Jeronimo, chairman for the Angola National Agency for Petroleum.....

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There is a low probability that OPEC+ enters maximum production mode this year.

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Aramco reports record net income of \$161.1 billion on higher oil prices

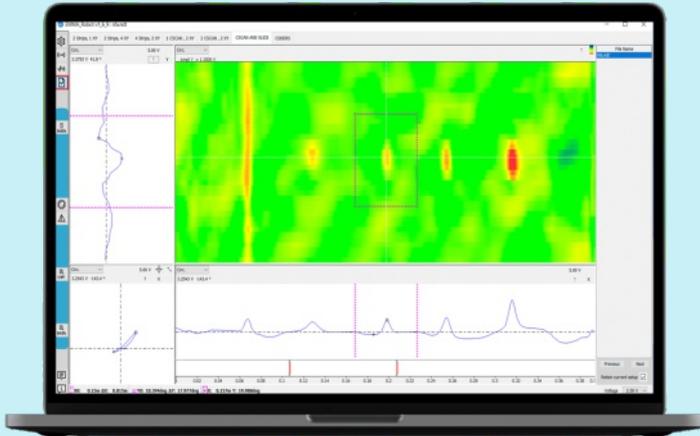
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EMMA DEVELOPED BY SG NDT FOR SURFACE AND ARRAY INSPECTION



Screen Capture: Array ECT probes often require Multiple Cscans and it provides all the features required to perform a quick analysis.

Screen Capture: it is showing several views of the surface under inspection. This dedicated software runs on a PC computer and it provides all the tools to inspect welds or complex surface.

NDT Analyzer Screen Capture: this software platform is customer configurable. It is Ideal for wires + tubes inspections.....

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VisualAIM consulting services and software provide Total Asset Integrity Management systems to all phases of the oil and gas industry. We evaluate your assets' ability to perform safely and successfully and provide strategies to effectively evaluate, monitor, and maintain your assets so that you realize increased reliability, increased efficiency, and increased throughput.

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New Investment in Ultrasonic Testing Equipment at Lavender International

Lavender International NDT have rolled out new equipment from manufacturers Sonatest and GB Inspections for the Ultrasonic Testing courses internationally. The state-of-the-art UT WAVE sets by Sonatest will be used in conjunction with custom weld kits by GB Inspection Systems, ensuring students are at the forefront of ultrasonic testing. Sonatest is the leading manufacturer of Ultrasonic inspection equipment globally. With innovative product design, Sonatest products are guided by their values of Simplicity, Capability and Reliability.....

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Eddy Current Flaw Detectors

Core WeldCheck & AeroCheck Series.
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Contact-free ultrasonic testing of composite parts or adhesive layers with high resolution



The combination of ultrasound excitation by laser pulses and XARION’s proprietary ultrasound detector achieves the best of two worlds: it matches today’s standard liquid-coupled UT in sensitivity and resolution, while it does not require water or coupling gel. The compact LEA probe is fully fiber-coupled and has been designed for robotic inspection from the start. Its robustness against misalignment and surface variations ensures high signal-to-noise ratio over the whole inspection area, minimizing costly manual retesting. No water, no coupling gel needed, Sub-mm resolution of internal defects and delaminations, High-speed inspection with up to 2000 mm/s, Robust against misalignment in stand-off and angle, Single-sided and through-transmission arrangement possible.....

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All New X-550



At 2.8lbs*
the SciAps X-ray gun is simply the lightest, fastest, most articulate X-ray gun ever made.
*2.8lbs includes battery

SciAps

New chair of the DGZfP subcommittee on air ultrasonic testing

Three years after the establishment of the subcommittee for air-coupled ultrasonic testing of the “Deutsche Gesellschaft für Zerstörungsfreie Prüfung (DGZfP)”, the first new elections were now due. With great pleasure, we would like to announce that the chairmanship has been taken over by Mate Gaal, supported by representatives Ralf Steinhausen and our esteemed SONOTEC colleague Martin Fuchs. With 25 members from industry, universities and research institutions, the subcommittee has a broad spectrum of skills and experiences. As a result, the guideline US 08 “Characterization and verification of air-coupled ultrasonic probes”

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SONOTEC

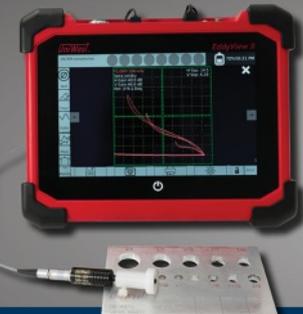
#future #ndt #innovation
#air-coupled ultrasonic testing



Congratulations
New chairmanship for air-coupled ultrasonic testing

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- Built better – built to last – Construction and cable design extends useful cable life with superior microdot protection.
- Standard length is five foot/1.5 meter

For ambient to moderate high temperatures.
 -40°F/C to 350°F/177°C continuous, and up to 600°F/316°C for brief contact.....

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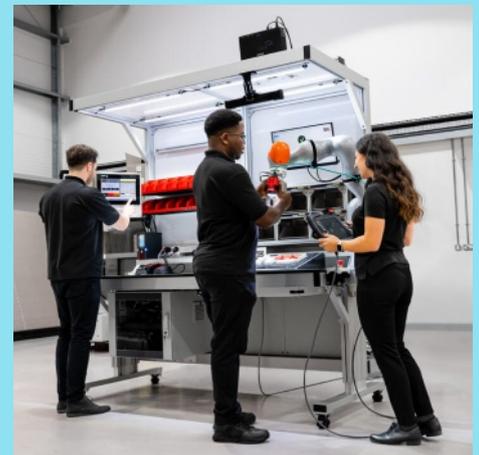
STANDARD CONFIGURATIONS
OR CUSTOMIZABLE SOLUTIONS

IVS and AMRC announce smart workbench of the future

A next-generation smart workbench to showcase the latest production technologies has been developed by Industrial Vision Systems Ltd (IVS), a global supplier of inspection machines and industrial automation solutions, in collaboration with AMRC Cymru.

The smart workbench combines a mixed reality headset, smart tooling, 3D and 2D machine vision, seven-axis robotics, intelligent projection, pick-to-light and automation into one complete demonstration cell. The bench is designed to showcase the combined use of these cutting-edge technologies in a cell which can be used for demonstrations, research and development.....

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APPLICATION NOTES



nexis



Corrosion Detection in the Aluminum Storage Tank of a Nuclear Power Plant



 **Eddyfi
Technologies**



Tightening Inspection Standards For In-Service Riser Bolt Inspection



EVIDENT



Fastener Hole Crack Detection Using Adjustable Sliding Probes

Professional Drone With Thermal and Visible Camera Payload

SIRAS is an affordable, easy-to-fly, IP54-rated professional drone with an interchangeable payload system for industrial and utilities inspection, firefighting, law enforcement, and search and rescue missions. With front collision avoidance, hot swappable batteries, a 31-minute flight time, and no restrictive geofencing, professional UAV pilots can fly safely when and where the mission demands. The quick-connect Vue® TV128 payload features patented MSX® technology adding visible-light outlines to thermal imagery to provide critical information in real time. The 16MP visible camera delivers clear, pinpoint details with a 128x zoom. A 640x512-pixel, radiometric FLIR Boson® provides sharp thermal imagery.....

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Exact Metrology Now Leases ZEISS METROTOM 1 CT Scanner

A Division of In-Place Machining Company, a comprehensive 3D metrology service provider and hardware sales company, is leasing the ZEISS METROTOM 1 CT scanner. The METROTOM 1 allows users to measure and inspect hidden defects and internal structures that can't be detected with tactile measuring systems.

The CT system offers several advantages, including easy handling, precise measurements, small footprint and fast return on investment. Installation is a simple process with very little training required. With the ability to measure and evaluate complete parts, accurate nominal/actual comparisons, dimensional checks and wall thickness analysis can be performed.....

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MADE IN BRITAIN

CYGNUS 6+ Pro
Serial Number: 20230
Version: 01.0-0205
Run Time: 1:51

Bluetooth icon

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CYGNUS 40TH ANNIVERSARY

Fast, reliable hot asset inspection, with no cooling period required!

Cygnus 6+ Pro Ultrasonic Thickness Gauge with High Temperature Probe • Reduces inspection time • More effective measurement

Multi-channel conventional UT system which is Ethernet connectable to your laptop.

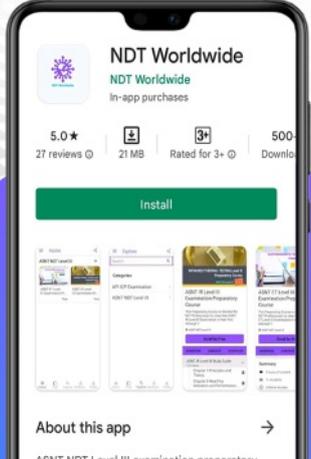


The Ethernet connection simplifies the link between laptop and Pocket-Scan and eliminates the need for a PCMCIA type II card slot. The Ethernet system requires minimal initial setup with no special drivers and will communicate with any Ethernet enabled PC.

Portable yet Highly Capable, Ethernet Link - PS45 to Laptop, Extensive Off-line Analysis Tools, Built-in Reporting, 2 Axis Encoder & Video Tracking, Up to x32 Conventional Channels

Pressure Vessel Welds, Pipeline Welds, Structural Welds, Hydrogen Damage Surveys, Corrosion Surveys, Forgings & Castings, Aircraft Components..... [CLICK TO READ MORE](#)


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- Offers 24 separate channels for longitudinal and 48 channels for transverse defect detection.
- LRFX rotaries use transverse magnetism to find longitudinal defects such as seams, laps and weld line defects.
- TRFX rotaries use longitudinal magnetization and provide 100% surface coverage to detect transverse defects.....

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