

# GAMMATEC KEY EQUIPMENT

August '24

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AT ELECTRA  
MINING

2 - 6 SEP  
P. 9

## EQUOTIP 550

ACCURACY AT  
YOUR FINGERTIPS

P.1





# EQUOTIP 550



## DID YOU KNOW?

- The Equotip metal hardness tester is a versatile portable hardness testing solution using the Leeb rebound technique invested by Proceq.

## HARDNESS TESTING CAN BE USED FOR:

- Paper, film, foil, textile, cardboard, and leather rolls
- Casts, flanges, shafts and bars/pipes
- Near-line Quality Control
- Heat-treated surfaces

## EQUOTIP 550 UCI

- Unmatched versatility owed to HV1, HV5 and HV10 test loads in a single probe.
- Patented adjustable test load for higher accuracy on a wide range of applications
- Powerful measurement device on the market packed in a rugged chassis

## Leeb Probes



**D**

Standard surfaces



**DC**

Restricted areas



**DL**

Restricted areas



**G**

Cast and forgings



**C**

Smaller parts



**S**

Ultra durable



**E**

Very hard surfaces



# Leeb Probes

## Probe Type

## Description

# D



*The D type probe was the first invented and remains the most commonly used probe for all round applications. It is suitable for the vast majority of the tests. It also comes with the most comprehensive set of conversion curves for multiple materials. This probe is also suitable for the testing of rocks and minerals. The D probe features a tungsten carbide ball indenter, which is the best choice for materials of average hardness levels.*

# DC



*This is a shorter version of the D probe that can easily fit into tight spaces such as bore holes, pipes, tubes and similar. Use it whenever the D probe seems too large for the application.*

# DL



*The narrow indenter of the DL probe is suitable for hard to reach areas such as gear teeth, complex flanges and similar items.*

# G



*The G probe has the largest impact energy and is appropriate for heavier forgings, castings and bulky objects. Due to its high impact energy, it is suitable for heavy objects starting from 5 kg (on solid support) and up to 15 kg and beyond (objects of compact shape).*

# C



*Similarly to probes describe above, the C probe indenter is equipped with a tungsten carbide ball, which covers the vast majority of applications. However due to its ultra-low impact energy, the 'excitation volume' of the test piece is much lower, hence this probe thrives on measuring specimens which are surface-hardened, thin-walled or impact-sensitive.*

# S



*With the same impact energy as the D probes, the S probe has a harder indenter made from silicon nitride, this probe is perfect for testing of objects which are expected to show higher hardness levels. The benefit of using such a probe is the much longer lifespan of the impact body, whereby the same impact body delivers longer, more accurate results when compared to the conventional D probe.*

# E



*The E probe features a polycrystalline diamond indenter and is designed to cope with objects of extreme hardness ranges, such as high carbide-content tool steel, for example. Despite its higher initial purchase price, dictated by the material cost, it offers the longest service lifetime for the hardest materials.*



# ETHER NDE



## OIL AND GAS

Assets are global, complex, and have a limited lifespan. Regular inspection of these assets are crucial for:

- Protecting the environment
- Safeguarding investments
- Ensuring a steady supply

Inspection is essential to maintain the integrity, reliability, and sustainability of these critical assets.

### NDT APPLICATIONS INCLUDE:

- Surface Crack Detection
- Material Sorting
- Tube Inspection
- Weld Inspection



### ETI-300/ETI-350

The ETi-300, a cutting-edge eddy current tube testing instrument designed for inspecting non-ferrous tubing from the inner diameter (ID). This advanced tool excels in demanding environments, delivering exceptional inspection results and reporting capabilities. Eddy Current testing is widely recognized as the fastest, most efficient, and effective method for inspecting large quantities of non-ferrous tubes in heat exchangers.



### WELD CHECK 3

The WeldCheck 3, a cutting-edge weld inspection instrument designed to improve the accuracy and efficiency of weld testing. This advanced tool utilizes Phased Array Ultrasonic Testing (PAUT) and Time-of-Flight Diffraction (TOFD) technologies to detect defects in welds.



### STEELCHECK

The SteelCheck, a cutting-edge tube inspection solution designed for carbon steel tubes. This portable, battery-powered instrument uses advanced Magnetic Flux Leakage technology to accurately detect defects on the outer diameter (OD), inner diameter (ID), and wall thinning.

**EXPLORE OIL AND GAS**



# ETHER NDE



## AEROSPACE

Non-destructive testing (NDT) is crucial in the aerospace sector, spanning manufacturing, in-service maintenance, and inspection. It's a necessity for aircraft asset owners, airline operators, and manufacturers to ensure the safety and reliability of their fleets, protecting passengers and employees alike.

### NDT APPLICATIONS INCLUDE:

- Surface crack detection
- Sub Surface Defects
- Conductivity Measurement
- Material Integrity
- Coating Thickness Measurement
- Rivet Hole Inspection
- Wheel Inspection
- Fastener Cracks
- Bolt Holes



### VEESCAN

The VeeScan, a pioneering Wheel Inspection System, offers unparalleled flexibility for various inspection environments. With a proven mechanical design and a breakdown-free record of over 365 days, VeeScan is the go-to solution for Aerospace companies. Its versatility and compatibility with a wide range of probes make it ideal for any wheel testing facility.



### AEROCHECK 3

The AeroCheck 3, featuring rotary inspection capabilities and advanced features. Choose from two options: with or without the thumbwheel. Enjoy improved mechanical and ergonomic design, ruggedness, and a toughened screen. Benefit from enhanced performance, connector access, and optional features like an encoder wheel.



### ETHERCHECK

The EtherCheck, is a cutting-edge flaw detector designed specifically for aerospace applications. It offers a unique combination of features and the widely used Pitch-Catch acoustic bond testing method. With a user-friendly interface, operators can easily switch between modes and set up tests with simplicity and speed.

**EXPLORE AEROSPACE**



# ETHER NDE



## POWER GENERATION

The energy sector, comprising Nuclear, Fossil Fuel, and Alternative Energy, relies heavily on safety and minimizing downtime to ensure the continuous supply of power and energy.

### Nuclear Energy

- Regular inspections and adherence to testing standards are crucial to prevent major accidents and ensure public safety.

### Fossil Fuel Energy

- Core driver of NDT applications is to ensure safety and integrity of plant equipment, such as pressure vessels, boilers, and pipelines.

### Alternative Energy

- Ensuring safety and integrity of renewable energy infrastructure is critical to maintaining public trust and confidence.



ETI-300/ETI-350



STEELCHECK



WELD CHECK 3

## NDT APPLICATIONS IN VARIOUS SECTORS INCLUDE:

### NUCLEAR

- Wall Thickness Assessment
- Crack Detection
- Corrosion Detection
- Tube Inspection
- Weld Inspection
- Heat Exchanger Inspection

### FOSSIL FUEL

- Crack Detection
- Material Sorting
- Tube Inspection
- Weld Inspection
- Hole Inspection
- Turbine Inspection (Blade and Root)

### ALTERNATIVE ENERGY

- Surface crack detection
- Corrosion detection (wind towers)
- Structural Health monitoring
- Material Verification (Climate damage)
- Composite material inspection

**EXPLORE POWER GENERATION**



# OUR SOLUTIONS

The Company's Extensive Product Portfolio Includes Solutions For Acoustic Emission Testing (AE), Magnetic Particle Testing (MT) Coating Inspection, Electromagnetic Testing (ET), Hardness Testing, Post-Weld Heat Treatment, Infrared & Thermal Testing, Leak Testing (LT), Liquid Penetrant Testing (PT), Positive Material Identification (PMI), Radiographic Testing (RT), Ultrasonic Testing (UT), And Visual Inspection (Including Drones).

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TELEDYNE ICM  
Everywhere you look™



Powered by DeWalt

NEW!!

# THE CP200B

BATTERY OPERATED PORTABLE X-RAY GENERATOR

Perfect for  
A wide range of NDT Applications:

- 1 OIL AND GAS
- 2 AEROSPACE
- 3 WELDING
- 4 FABRICS OR ART OBJECTS...



## BATTERY PERFORMANCE THAT EXCEEDS EXPECTATIONS



BATTERY OPERATED



SMALL FOCAL SPOT



LIGHTWEIGHT



100% DUTY  
CYCLE



ROTATING TANK



WIRELESS AND WIRED



UP TO 200 KV





# COMPLETE MINING SOLUTION



**DRONES**



**ULTRASONICS**



**HARDNESS**



**THICKNESS**

## OUR SOLUTIONS

### PRODUCTION

- LEVEL GAUGES
- OPTIMUS
- HYPERION
- PROFILER
- NORM GAUGES
- RADIATION MONITORS

### ENGINEERING

- HARDNESS TESTERS
- ULTRASONIC TESTING
- STEEL ROPE
- PIPE X-RAY

### MAINTENANCE

- VALVE LEAK DETECTION
- PECT
- GUIDED WAVE
- UNDERCARRIAGE INSPECTION
- BOLT SCANNERS
- CONVEYOR PHASED ARRAY

### CHEMICALS

- DEGREASER
- OIL REMOVERS
- ANTI SPATTER
- RUST REMOVER

### SURVEYING

- UNDERGROUND DRONES

### MONITORING SOLUTIONS

- SENSORS
- INSPECTION



## UPCOMING EVENTS



# electra mining

mining • electrical • automation • manufacturing

## africa 2024

Southern Africa's Biggest | SINCE 1972

### Come See Our Complete Mining Solution

Production • Maintenance • Surveying • Engineering  
Chemicals • Monitoring Solutions • Steel rope



**Hall 5 Stand Number F22**



**Johannesburg expo centre**



**2 - 6 September**

**REGISTER TODAY**



INTRODUCING!

# FORTES

RUGGEDNESS SIMPLIFIED



The Exertus Fortes Projector has the ability to accept Iridium 192 sources or Selenium 75 sources. This projector incorporates design and safety features that make it flexible, compact & lightweight. The Projector is lighter than most of its competitors. It incorporates an improved source channel, based on a helicoidal design, which makes maintenance easier.

The helicoidal design also allows smoother movement of the source assembly inside the device, making it easier for the operator and improving safety. The Exertus Fortes is ISO3999:2004 compliant.

## KEY FEATURES

- USER FRIENDLY OPERATION
- CAN ONLY BE LOCKED AND DISCONNECTED WITH SOURCE IN SAFE POSITION
- ACCEPTS IR-192 OR SE-75
- TUNGSTEN SOURCE CHANNEL
- JUST 23KG WITH JACKET
- COMPACT DESIGN
- 2 COLOUR SIGNAL SAFETY INDICATOR
- AUTOMATIC SOURCE ASSEMBLY LOCKING MECHANISM

[EXPLORE FORTES](#)



# INDUSTRIAL ISOTOPES



## KEY FEATURES



**A TEAM WITH  
OVER 25 YEARS  
OF COMBINED EXPERIENCE**



**MULTIPLE MANUFACTURING  
FACILITIES**



**SHIPPING TO OVER 60  
APPROVED COUNTRIES**



**GUARANTEED SHORT  
DELIVERY PERIOD**



**LARGE TRANSPORT  
CONTAINER FLEET**

**FIND OUT MORE**



# KEY EQUIPMENT

## RADIOGRAPHY EQUIPMENT



**HPX-1 PLUS**  
CARESTREAM

The HPX-1 Plus Is Ideal For A Lab Environment Where High-Resolution Is Critical With Adjustable PMT And Laser Power To Fine Tune Every Image For Optimum Capture Every Time.

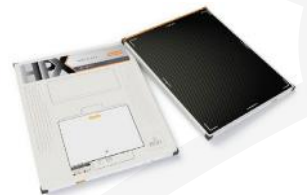
[Explore](#)



**HPX-PRO**  
CARESTREAM

The HPX-PRO Portable Digital System Is Designed For High Throughput Digital Imaging In Rugged NDT Environments.

[Explore](#)



**HPX-DR NON GLASS**  
CARESTREAM

The HPX-DR 3543 PE Non-Glass Detector Incorporates A Tougher Material Instead Of Glass For Maximum Durability Against The Rigours Of NDT Field Work.

[Explore](#)



**DUAL 120**  
OSERIX

Has The Ability To Accept Iridium 192 Sources Or Selenium 75 Sources. This Projector Incorporates Design And Safety Features That Make It Flexible, Compact And Lightweight.

[Explore](#)



**CIRCA 80**  
OSERIX

A New Generation Of Close Proximity Tungsten Shielded Gamma Radiography Projector – It Has The Ability To Accept Selenium 75 Sources.

[Explore](#)



**VOX 100**  
OSERIX

The Exertus® VOX 100 Projector Is An Integration Of All The Exertus Projectors And Has The Ability To Accept Co-60 Sources.

[Explore](#)



# RADIOGRAPHY EQUIPMENT



**GO-SCAN**  
TELEDYNE ICM

High Definition, User-friendly, Light-Weight, Real-time Feedback, Shock Absorbing! By Focusing On The End-User As The Starting Point Of This Incredible Collaboration, We Created A High-Tech Digital X-ray Solution Entirely Designed Around You!

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**C-VIEW**  
TELEDYNE ICM

Go-Scan C-View Is A Light Weight Ruggedized Real Time X-Ray Imaging System Specifically Designed For Hand-Held Inspections Such As Corrosion Under Insulation (CUI) Inspection.

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**NEW!!!**

**CP-200B**  
TELEDYNE ICM

The CP200B is a portable X-ray generator that's lightweight (13 Kg/28.6 lbs) and battery-operated (Dewalt®). It has a wide output voltage range (40-200 kV) and tube current range (0.1-1.5 mA), with a 100% duty cycle at 30°. Its small focal spot size makes it ideal for digital radiography, providing high-quality images.

[Explore](#)



**GAMCPR**  
GAMMATEC

Enhancing Radiation Safety For The Radiographer And Protecting Members Of The Public From Exposure To Harmful Radiation Levels.

[Explore](#)



## CONVENTIONAL RADIOGRAPHY



## CLOSE PROXIMITY RADIOGRAPHY





# ULTRASONIC TESTING EQUIPMENT



**D50/D70**  
SONATEST

The Sitscan D-50/D-70 Offer The End User An Entry Level Broadband Flaw Detector In The Popular And Portable Casing Of The Established D-Series

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**WAVE**  
SONATEST

Introducing WAVE By Sonatest. It Integrates The Latest Technologies Available In Order To Create A Revolution In The Ultrasonic Non-Destructive Testing Equipment Market.

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**VEO 3**  
SONATEST

Retaining The Best Features Of The Established Veo Line, The New Veo3 Now Offers A PCAP Touch Interface, User Templates, And More Importantly, Live TFM.

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**MK-5 RANGE**  
CYGNUS

The Ultrasonic Thickness Gauges Includes The Standard Models Employing The Multiple-Echo Techniques To Give Accurate Through Coating Readings.

[Explore](#)



**DIVE**  
CYGNUS

A robust wrist-mountable gauge for underwater ultrasonic thickness measurement, providing a free hand. It offers a large, bright display with live A-scan, easily viewable by the diver and camera, even in poor visibility.

[Explore](#)



**CORROSIVON SCANNER**  
SCANBUDDY

Manual Weld Scanner To Take The Frustration Out Of Weld Scanning. The Scanner Is Highly Configurable, And Can Be Adjusted To Suit A Multitude Of Inspection Needs.

[Explore](#)



# HARDNESS TESTING EQUIPMENT



**EQUOTIP LIVE UCI  
PROCEQ**

The UCI Hardness Tester boasts unparalleled versatility with three test loads (HVI, HV5, and HV10) in a single wireless probe, ensuring high precision through patented force-sensing technology. Its user-friendly software interface enhances productivity, making it a highly efficient solution.

[Explore](#)



## TOP ACCURACY HARDNESS TESTING

# POST WELD HEAT TREATMENT



**KVA UNITS  
INCERTECH**

Robustly Constructed To Provide Power To Electrical Resistance Heaters At 65/85 Volts, Suitable For Site And Shop Working.

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**CONSUMABLES  
INCERTECH**

- Thermocouple Wire
- Connectors & Sleeves
- Ceramic Fibre Blankets
- Pad Heaters
- Heating Mats

[Explore](#)





# ELECTROMAGNETIC EQUIPMENT



**PECT  
MAXWELL**

Ideal For Measuring Steel Thickness Without Having To Remove The Lagging, Coating, Deposits Or Marine Growth. Easy To Use, Robust, Reliable And Ideal For Inspections On-Site.

[Explore](#)



**TRUFLUX  
BAUGH & WEEDON**

Introducing the TruFlux, a groundbreaking Magnetic Flux Leakage (MFL) tank floor plate inspection system that sets a new standard in user-centric design. Combining cutting-edge features with practical functionality, the TruFlux offers an unparalleled level of sophistication and ease of use.

[Explore](#)



## BAUGH & WEEDON TRUFLUX

HIGH RESOLUTION DIGITAL  
TANK FLOOR PLATE SCANNER

The TruFlux scanner effortlessly captures high-resolution, accurate topographical images of 6-20mm storage tank floor plates. Weighing just 55kg, including its compact battery pack, this self-propelled scanner is designed for easy transport and handling. Its foldable, compact design streamlines shipping and setup, minimizing operator fatigue and maximizing field efficiency

### KEY FEATURES

- Superior Resolution (5.2mm x 1mm)**
- Lightweight, 55kg (inc. battery)**
- Semi-rugged laptop upgradeable to a fully rugged option.**
- Unique damping system**
- High resolution optical encoder. Positional accuracy of ± 1mm over a 20m scan track.**
- Fast track-to-track scanning images.**
- USB connectivity means the Truflux effectively works as a simple "plug and play" unit.**
- Off-the-shelf battery technology**

# YOKES



**MY-2  
GAMMATEC**

A Low Cost, Portable Instrument Which Provides Fast And Accurate Defect Detection In Ferrous Metals.

[Explore](#)



**PM2000/2004  
GAMMATEC**

The PM2000 Has A Fixed Handle With Articulating Legs While The PM2004 Has Fixed Legs With Interlinking Cable. Both Are Designed To Make It Easy To Work On Difficult Shapes.

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# CONSUMABLES

## RADIOGRAPHY EQUIPMENT



### MAGNETIC PARTICLE

- White Background
- Black Ink
- Fluorescent Ink
- Cleaner
- Powder

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### DYE PENETRANT

- Cleaners
- Developers
- Penetrants

[Explore](#)



### ISOTOPES

- Ir-192 Sources
- Se-75 Sources
- Co-60 Sources
- Cs-137 Sources

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### RADIOGRAPHY ACCESSORIES

- Penetrimeters
- Lead Marker Tapes
- Lead Letters & Numbers
- Film Cassettes
- Lead Intensifying Screens

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### DARKROOM

- Industrial Film
- Processing Chemicals
- Film Cassettes

[Explore](#)



### PHASED ARRAY

- Transducers
- Probe Cables
- Couplants
- Probes

[Explore](#)



# GET IN TOUCH!

## HEAD OFFICE SOUTH AFRICA

VISION 21 INDUSTRIAL PARK, STEEL ROAD, PEACEHAVEN, VEREENIGING.  
P.O. BOX 264786,  
THREE RIVERS, 1939.

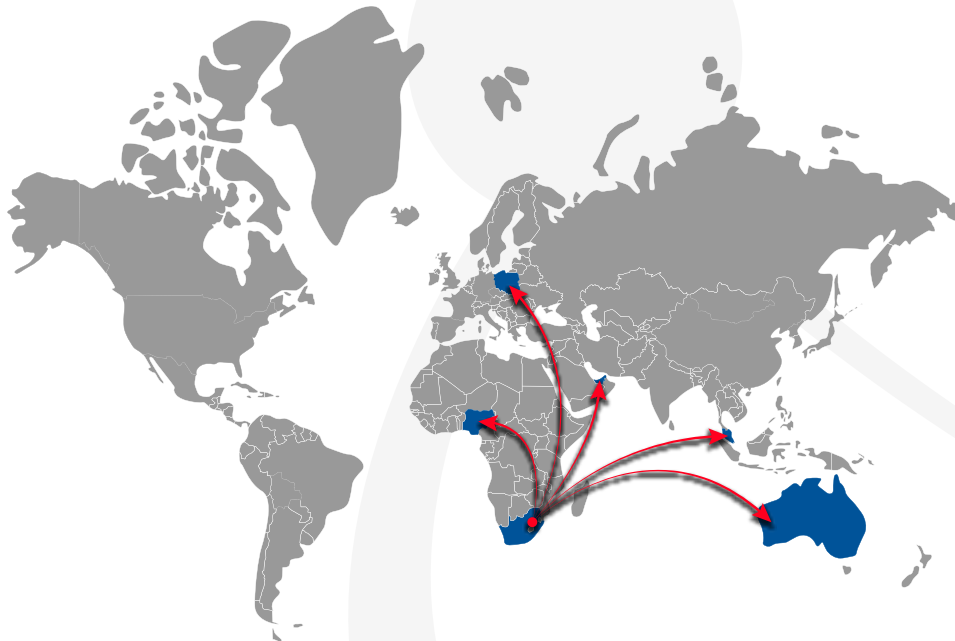
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# OUR KEY PARTNERS





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