



Solutions at GE Inspection Technologies

Business Overview

Paul A. Meyer

Our Company

A global leader in technology-driven inspection solutions that deliver productivity, quality, and safety to our customers

GE Inspection Technologies

- > A leader in NDT
- > Strong product brands
 - Agfa NDT
 - Krautkramer
 - Seifert
 - Hocking
 - Everest VIT
- > A team of over 1,000 employees
- > With a Worldwide Sales Team
 - Direct Sales in 40 countries
 - Representatives & Distributors in over 120 countries
- > Application Centers around the world
- > A Global Services team

A member of the GE Family

A tradition of leadership

- > Founded by Thomas Edison in 1878 as the Edison Electric Co.
- > 13 global businesses
 - Strong industrial leaders
 - Leading medical technology
 - Financial strength
- > Sharing technologies and processes
- > \$134 billion in revenue in 2003
- > “World’s Most Respected Company” in 2004 for the 6th straight year*



*Financial Times/PWC World's Most Respected Companies survey

Supported by GE Global Research



- > A leading research facility
 - 2,100 PhDs and Researchers
 - Located in the United States, Germany, India, and China
- > Housing one of the world's foremost NDT labs
 - Radiography, ultrasound, eddy current and other modalities
 - Focused on next generation of sensors, instrumentation, and imaging software development

Broad Industry Focus



Our Products

Agfa Film Systems

- > Complete range of **X-ray films**, with highest speed and sensitivity
 - Optimum image quality
 - Consistent production and processing quality
 - Wide choice in packaging
- > State-of-the-art **processing equipment**:
 - Small film volumes to high productivity demands
- > Optimized **chemistry**:
 - The best possible image quality
- > **Quality Assurance** tools:
 - Allowing compliance and monitoring of the film process



GE Inspection Technologies is the exclusive worldwide provider of Agfa NDT X-ray Film and associated equipment

Agfa eco Film System



Significant advantages without sacrificing quality

> Economical advantages

- High film throughput capacity
- Less chemistry consumption and packaging cost

> Ecological benefits

- Less chemistry
- Less wash water use
- Less silver in waste
- Less packaging waste
- Less energy consumption

Seifert X-Ray Tubes and Generators

> Portable ERESKO MF3 System

- Easy handling of all units: 160 - 300 kV
- Shortest exposure time due to real DC output
- High current power mode and low energy application
- 100% duty cycle, even in rain or high ambient temperature
- Long tube life due to proven intelligent automatic warm-up

> Stationary ISOVOLT HS System

- Broad range of variants: 160 - 450 kV
- High stability and accuracy
- Precise reproducibility
- Extremely low ripple
- High dose rate output



Digital X-Ray Solutions

- > Film Digitization (FD)
 - Fast and accurate film scanning
- > Computed Radiography (CR)
 - Fast and accurate image scanning
 - Reusable phosphor plates
 - Shorter exposure times
 - Higher throughput
 - Designed for convenience
- > Digital Radiography (DR)
 - No consumables
 - High volume applications
- > Image review and archiving
- > Automatic Defect Recognition



Krautkramer Ultrasonic Products

> Flaw Detectors

- Detection, location, and evaluation of material defects
- Performance and features benefit diversified applications

> Thickness Gauges

- Measure wall thickness from one side
- Precision parts and components subject to wear or corrosion



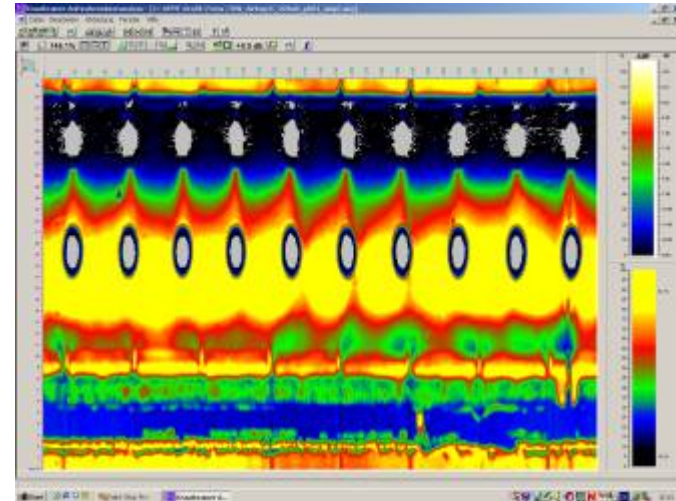
Krautkramer Ultrasonic Products



Phasor XS™
Portable Phased Array
Ultrasonic Flaw Detector

- Battery powered
- Portable
- Rugged
- < 4 kg
- Real-time sector image
- Menu-driven
- Data capture

Krautkramer Ultrasonic Products



> Probes

- Broad range of models for standard and special applications
- Advanced piezocomposite and phased array technologies

> Application Software

- Documentation, evaluation, statistics, and reporting test results

Hocking Eddy Current

Detection of surface cracks

- > Rapidly inspect complex geometries and shapes

Metal sorting

- > Verify heat treatment and composition of metals

Monitor corrosion of aircraft skins

Easy integration into automatic sorting equipment

- > Interfacing and controls
- > Hardness sorting and crack detection of rotosymmetrical components



GE Inspection Technologies is the exclusive Hocking representative in North America and Germany

Krautkramer Hardness Testers



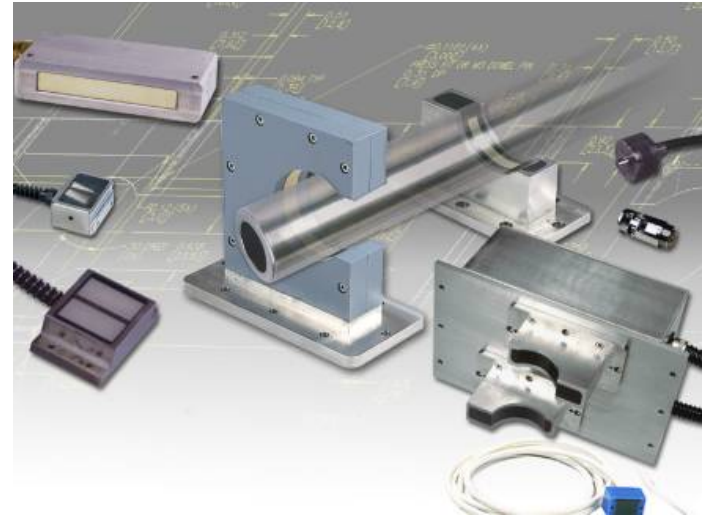
- > UCI Hardness Testers
 - Best for small parts and fine-grained materials
- > Rebound Hardness Testers
 - Test large parts and coarse-grained materials
- > Optical Hardness Testers
 - Best for thin parts and fine-grained materials
- > Wide variety of UCI Probes and Impact Devices

Our Solutions

Applications Centers

Highly skilled and experienced dedicated team

- > Covering a wide range on NDT modalities
 - Radiography and Radioscopy
 - Ultrasonic Testing
 - Eddy Current
- > Solving inspection application problems quickly
- > Providing industry-specific expert recommendations for specific problems
- > Designing, manufacturing, and testing custom-made products for unique applications



Seifert X-Ray Systems



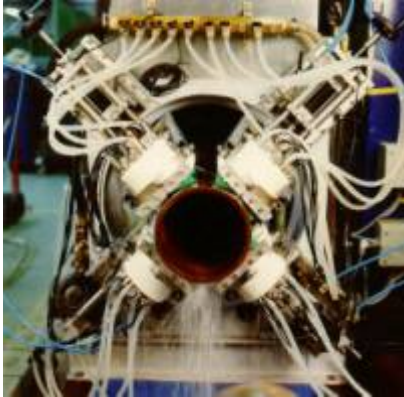
- > Universal Inspection Systems
 - Fast and efficient
 - Excellent detail recognition with image enhancement
 - Broad range of workpieces and application scenarios
- > High Speed Inline Inspection Systems
 - Full integration into production line
 - Automated Defect Recognition
 - Reliable mechanics
- > Fully-Customized Systems
- > 3D CT Systems

Seifert Analytical X-Ray Systems

- > Standard Equipment
 - X-ray diffraction tubes
 - X-ray generators
 - Software and accessories
- > Standard Systems
 - Phase Analysis – Quantitative and Qualitative
 - Texture and Stress Determination
- > Customized Systems
 - Single Crystal Orientation for aerospace turbine blades
 - Residual Stress Determination for automotive crankshafts
 - Automatic Orientation for semiconductors Silicon-Ingots



Krautkramer Ultrasonic Testing Machines



- > Turnkey inspection solutions for production, lab and mobile installations
- > Rugged and dependable systems for quality and process control applications
- > Broad industry segment experience
 - Aerospace components
 - Automotive parts
 - Bar, billet, rod and profile
 - Railroad wheels, axles and rail
 - Strip and plate
 - Tube and pipe
- > Innovative **phased array** technology improves inspection productivity

Our Services

Field Service

An experienced global team

- > From emergency interventions with configurable response times to planned and unplanned maintenance
- > Supporting all our products
- > Focus on minimizing downtime
- > Maintaining optimum performance levels



Equipment Repair and Calibration Services



- Supporting all product lines
- > Film processors, ultrasound equipment, eddy current, and X-ray products
 - > Traceable calibration certification
 - > Calibration to factory, customer-supplied, or industry-standard specifications
 - > On-site calibration services available

Training Programs

Global recognition and broad NDT expertise

- > Radiography:
 - Digital and film interpretation
- > Ultrasonic Inspection:
 - Levels 1, 2, 2B and 3
- > Eddy Current:
 - Levels 1 and 2
- > Customized programs



Parts fulfillment services and programs



Focused on bringing operational benefits

- > Timely delivery to keep equipment and systems up and running
- > Upgrade programs
- > A cost-effective solution for achieving high-impact operating results

GE Inspection Technologies

Focused on helping customers achieve their safety and quality productive targets by:

- > Leading and investing in NDT technology
- > Delivering proven products, applications and services
- > Building on strong industry segment experience
- > Having a worldwide sales and service team



GE imagination at work