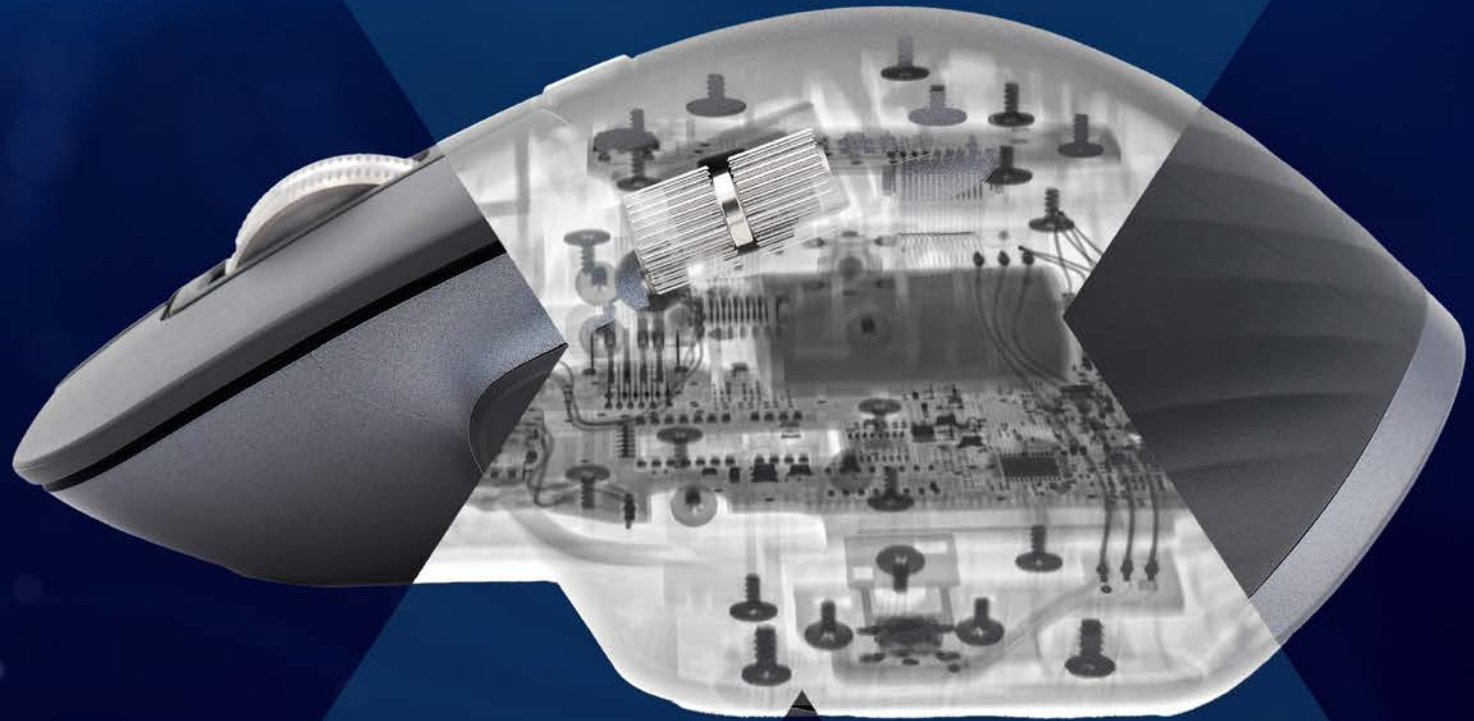
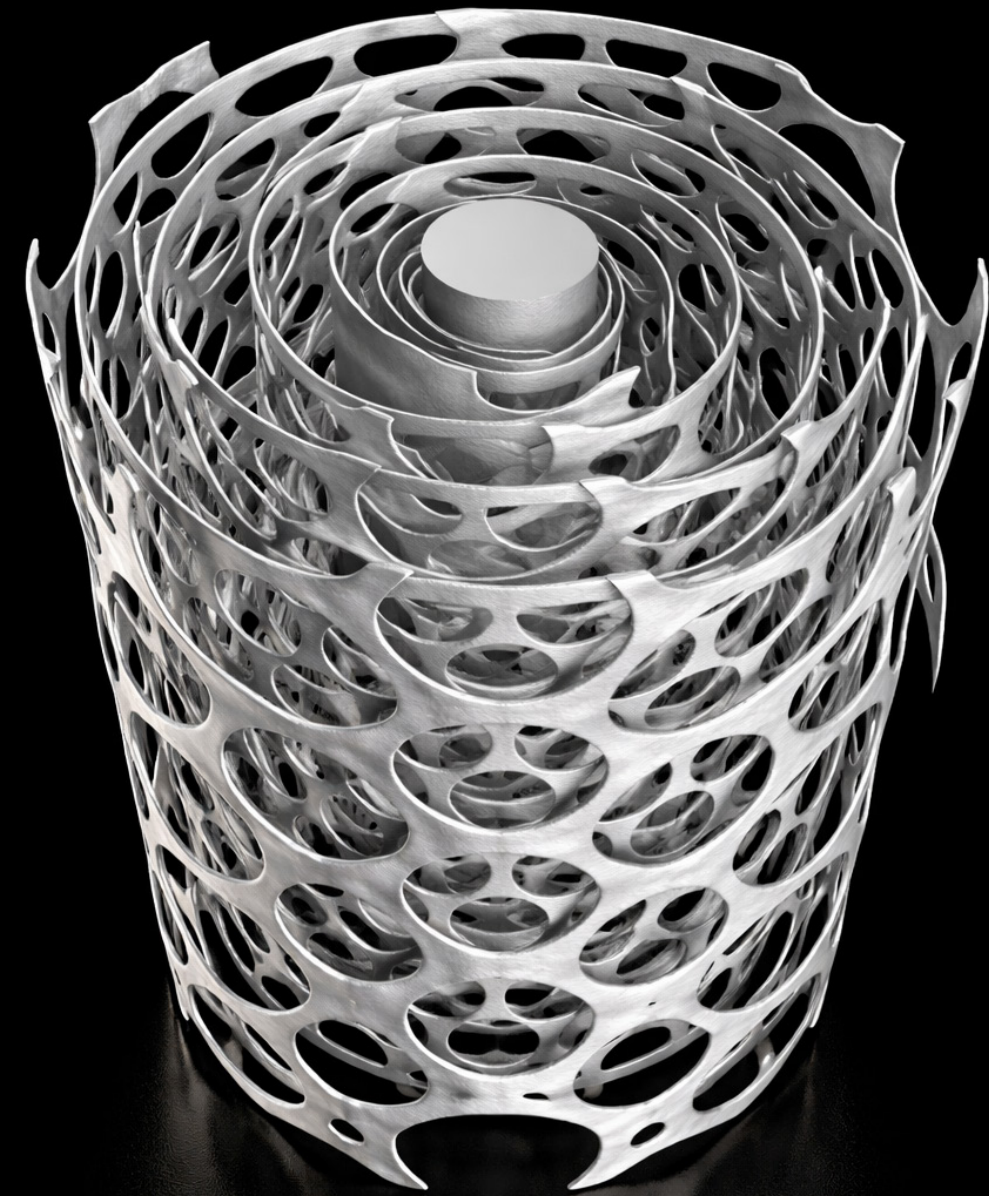


ProCon X-Ray CT Systems for Manufacturing and Research





CT Solutions for a wide range of applications

Precision across a Wide Range of Industries

Since 2004, ProCon X-Ray has developed high-precision X-ray inspection systems for industrial and scientific applications.

We provide non-destructive testing and quality assurance solutions for a diverse range of industries including aerospace, additive manufacturing and medical technology.

We also offer computed tomography (CT) scan services which assist in quality control and manufacturing processes.

Our systems are designed for:

- intuitive usability
- seamless workflow integration
- maximum flexibility

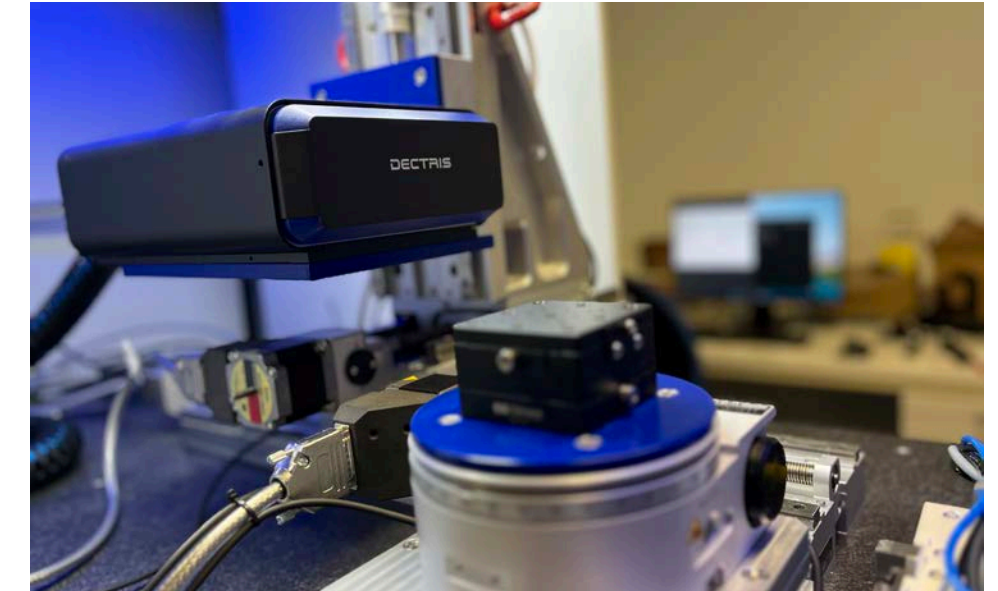


Company Introduction

CT from Every Angle

CT System Development & Engineering Partnership

We design and engineer advanced X-ray imaging hardware and software for industrial and research applications, transforming complex inspection requirements into reliable, high-performance metrology solutions.



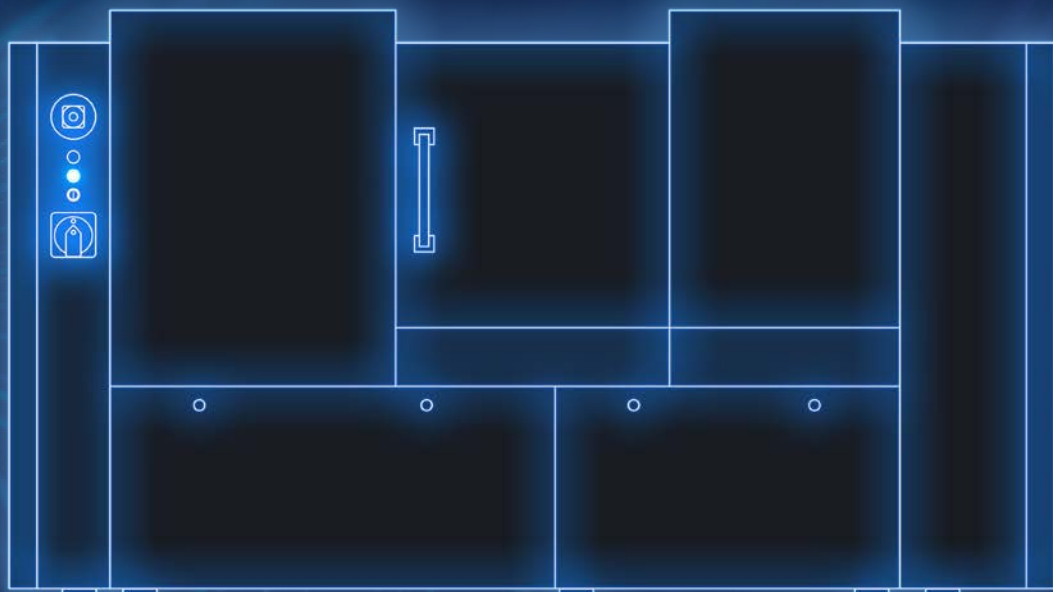
Shaping Insights. Engineering Solutions.

Working closely with our customers, we also develop customised CT systems tailored to specific requirements and seamlessly integrated into existing processes and measurement environments.

Part of an International Group of Companies

As part of the International Metrology Group, we combine decades of CT expertise with a global network for advanced metrology and inspection solutions. We are a team of 250 people across 10 countries. Furthermore, we have local partners and dealerships in more than 30 countries.

Guided by 3 Principles



Flexibility

Adapt to every challenge.
Open hardware ecosystem.
Configurable for your application.



Scalability

Grow with your requirements.
Expandable architecture.
Future-ready performance.



Connectivity

Seamlessly integrate into
your environment. APIs, cloud
connectivity & extensions.

Our CT systems are
developed according to 3
core principles

Company Introduction

Service & Maintenance



After-Sales Service

Our qualified service technicians respond to queries quickly.

Training & Technical Support

Our service includes comprehensive operator training and support.

Service Contracts

Contracts offer priority response times and maximum transparency.

Preventive Maintenance

Identify and resolve potential issues before they lead to downtime.

Spare Parts & Upgrades

Original spare parts, replacements, and upgrades for prolonged runtime.

Software



Proprietary Software

Our software integrates the latest innovations to meet changing customer needs. It supports a wide range of use cases and can be tailored to fit individual workflows. Boasting built-in AI, it enables smarter decision-making and more efficient processes across every application.

Tailored to our Systems

Our software ensures seamless integration across a large and varied hardware pool. Its flexible architecture allows for scalability and adaptation, making it an ideal fit for both standard and highly specialised configurations.

Training

We offer training to ensure users get the most out of our software. Whether you're new to the system or looking to deepen your expertise, our training programs are tailored to different experience levels and roles.

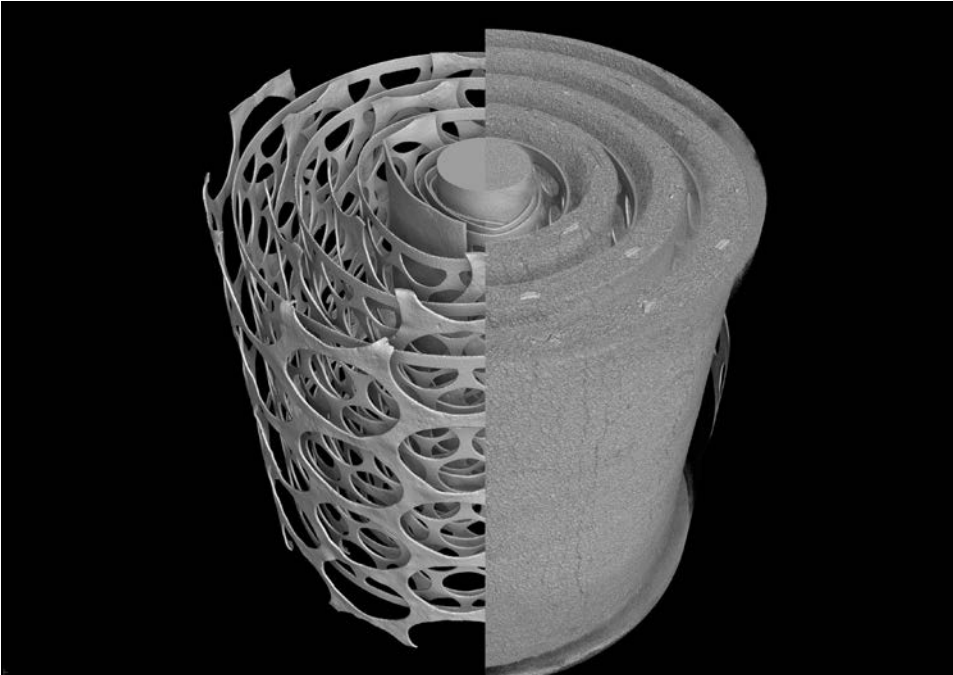
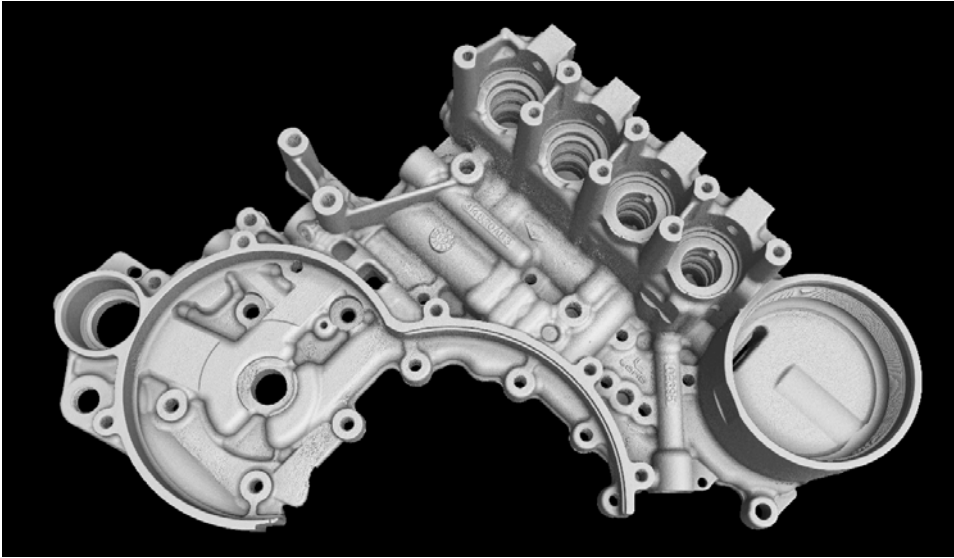
Applications

Supporting Manufacturing & Quality Control

CT technology enables insight into the internal structure of objects, materials, and components with exceptional precision.

By generating high-resolution 3D data, CT systems allow users to analyse internal geometries, identify defects, measure complex structures, and validate performance without cutting, damaging, or altering the sample.

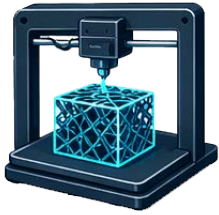
This makes CT an essential tool for quality assurance, product development, failure analysis, and advanced scientific research across a wide variety of sectors.



As manufacturing processes and material systems become increasingly sophisticated, CT has evolved into a critical technology for accelerating innovation and improving reliability.

From microscopic material investigations to the inspection of large industrial assemblies, CT supports faster decision-making, reduces production risk, and enables deeper understanding of complex structures.

Its versatility allows researchers, engineers, and manufacturers to solve challenges that are difficult or impossible to address using conventional inspection methods.



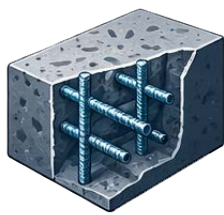
Additive Manufacturing



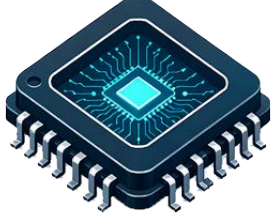
Aerospace



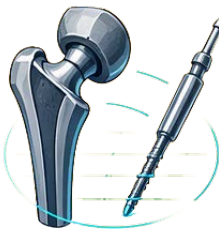
Battery & Energy Storage



Construction & Building Materials



Electronics & Semiconductors



Medical Devices



Metal Casting & Foundries



Pharmaceuticals



Plastics & Polymers



Research & Academia

Broad Range of Fields

CT technology is used across an extensive range of industries and research fields.

In additive manufacturing, it supports porosity analysis and dimensional verification of printed parts, while aerospace applications include turbine blade inspection and composite material analysis.

Battery and energy storage manufacturers use CT to study internal cell structures and degradation behaviour, and the electronics industry relies on CT for solder joint inspection and semiconductor analysis.

In medical devices and pharmaceuticals, CT enables detailed investigation of implants, delivery systems, and packaging integrity.

Additional applications include material research in academia, defect analysis in metal castings and polymers, and structural evaluation of construction materials and engineered components.

Our Benchtop CT Systems

**Small Package.
Big Performance.**



COMPACT, YET POWERFUL
Delivers powerful CT performance in a remarkably compact footprint.

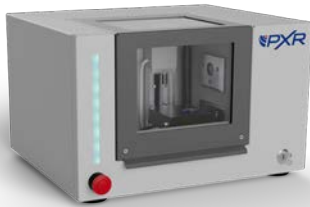


IDEAL FOR LABORATORIES
Enclosed X-ray sources with outputs up to 225 kV provide high-performance imaging for laboratory applications.



BUILT FOR INDUSTRY
Designed for demanding industrial inspection where accuracy, reliability, and a compact footprint are priority.

CT-PORTABLE



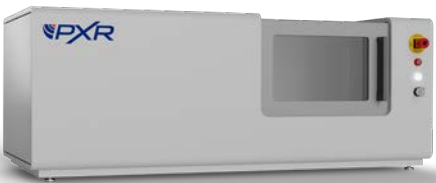
It is the smallest mobile CT system in the world, making inspection possible in space-constrained environments.

Total weight: 25 kg
Acceleration voltage: 50 kV
Max sample size: Ø 100 x H 100 mm



Scan the QR code to learn more about the CT-PORTABLE.

CT-MICRO



This is our smallest system that is available with either an 80 kV or 100 kV X-Ray source.

Total weight: ~ 250 kg
Acceleration voltage: up to 100 kV
Max sample size: Ø 250 x H 230 mm



Scan the QR code to learn more about the CT-MICRO.

CT-MINI



The all-rounder for a wide range of laboratory and shop floor applications.

Spatial resolution: < 3 µm
Acceleration voltage: up to 100 kV / up to 130 kV
Max sample size: Ø 360 x H 185 mm



Scan the QR code to learn more about the CT-MINI.

CT-PLUS



The CT-PLUS provides the largest space for samples while being as light as possible.

Total weight: ~ 600 kg
Acceleration voltage: up to 130 kV
Max sample size: Ø 360 x H 600 mm



Scan the QR code to learn more about the CT-PLUS.

CT-COMPACT



This system offers the most flexibility in our benchtop range and can be customised with a range of detector and X-ray source options.

Acceleration voltage: up to 225 kV
Max sample size: variable



Scan the QR code to learn more about the CT-COMPACT.

Our Floor-Standing CT Systems

**Built for Performance.
Engineered for Possibilities.**

HIGHEST RESOLUTION
Virtually unlimited application possibilities with outstanding image quality.

OPEN X-RAY SOURCES
Equipped with open X-ray sources for maximum flexibility and customised inspection tasks.

MAXIMUM VERSATILITY
Spacious sample chambers and high-performance configurations for complex components, high-density materials and industrial CT applications.

ENGINEERED FOR RELIABILITY
Built for long-term stability, precision results and the most demanding inspection tasks.

CT-ALPHA



Closing the gap between high power demands and challenging tasks that require high resolution.
Spatial resolution: up to 0.5 µm*
Acceleration voltage: up to max 320 kV*
Max sample size: Ø 400 x H 500 mm
* Not achievable simultaneously. Either max voltage or max resolution.



Scan the QR code to learn more about the CT-ALPHA.

CT-ULTRA

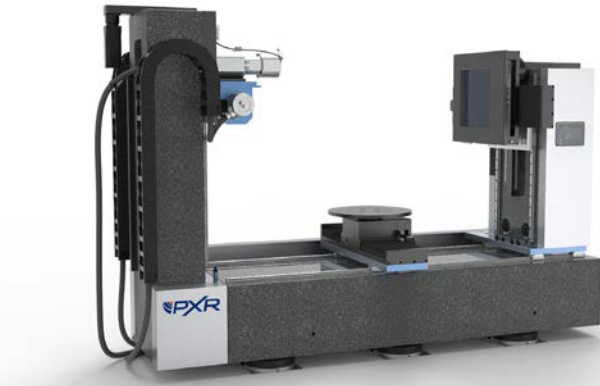


Unmatched flexibility offering dual-detector and dual-X-ray source configurations.
Spatial resolution: up to 30 µm / 0.5 µm*
Acceleration voltage: up to 450 kV / 240 kV*
Max sample size: Ø 1200 x H 1500 mm
* up to 450 kV, resolution is 30 µm. Up to 240 kV, resolution is 0.5 µm.



Scan the QR code to learn more about the CT-ULTRA.

CT-CHORIS



Built for installation in a bunker and thus can be constructed to suit the desired scan samples.
Spatial resolution: up to 0.5 µm / 30 µm / 150 µm*
Acceleration voltage: up to 240 kV / 450 kV / 600 kV*
* Up to 240 kV, resolution is 0.5 µm. Up to 450 kV, resolution is 30 µm. Up to 600 kV, resolution is 150 µm.



Scan the QR code to learn more about the CT-CHORIS.

CT-ALPHA nanotube



This system provides a unique solution for high-resolution measurements, far ahead of established industrial micro CT scanners.
Spatial resolution: 150 nm
Acceleration voltage: up to 160 kV



Scan the QR code to learn more about the CT-ALPHA nanotube.



Haven't Found the Best Solution?

We'll Develop it - No Compromises

Because no two inspection processes are alike, we offer CT systems that can be precisely tailored to your requirements. When standard solutions reach their limits, we create the system your application demands.

From the initial concept to commissioning, we work closely with you throughout the entire process, optimising every detail for performance, size, speed, and efficiency.



Custom CT system for large-scale industrial inspection

Get in Touch

Whether you're looking for a solution for non-destructive testing in production, material research, or high-resolution imaging for scientific analysis, we take the time to understand your requirements.

Our experienced team is ready to advise you on the ideal configuration for your use case, answer any technical questions, and guide you through options that align with your workflow and objectives.

We're looking forward to hearing from you.



Contact Service

If you already have a ProCon system, and require support or maintenance, please contact our service team.

service@procon-x-ray.de

Contact Inspection

Contact us for contract inspection with our advanced CT technology.

inspection@procon-x-ray.de

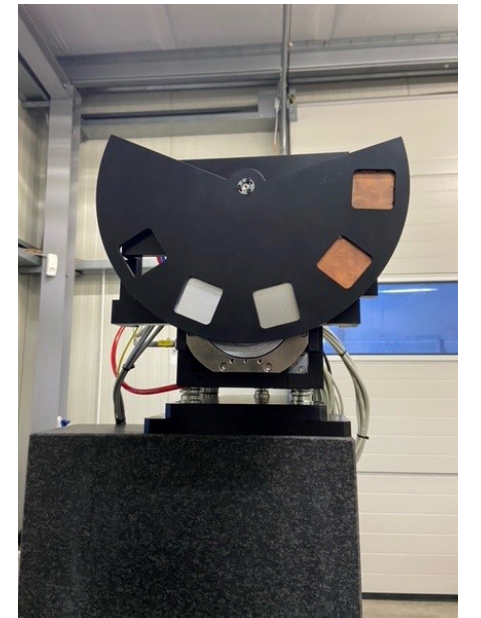
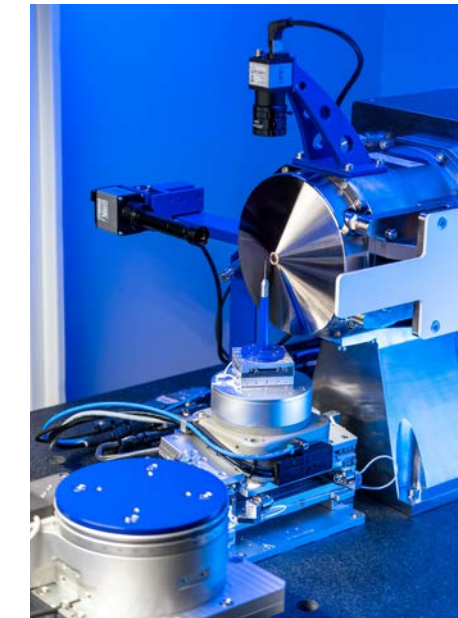
Contact Sales

Our sales team is looking forward to hearing from you.

sales@procon-x-ray.de

Address

Ludwig-Erhard-Ring 6A
31157 Sarstedt
+49 (0) 5066 98414-0
www.procon-x-ray.de



-  Complex geometries
-  Tailored handling
-  Inline production integration
-  Custom automation
-  Entirely new idea?



Part of the LK Metrology Group

ProCon X-Ray GmbH

Ludwig-Erhard-Ring 6A

31157 Sarstedt

+49 (0) 5066 98414-0

sales@procon-x-ray.de

www.procon-x-ray.de

linkedin.com/company/procon-x-ray/

youtube.com/@ProConXRay