



PRO C Series

The Configurable Cabinet Solution



by VisiConsult

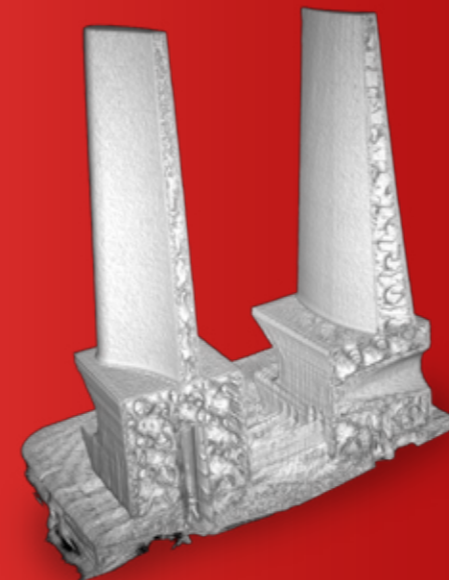
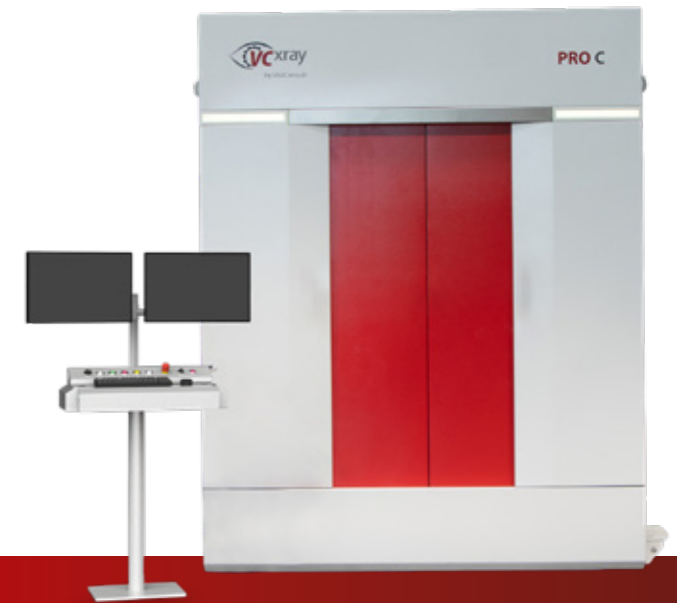
We provide **end-to-end solutions for industrial X-ray NDT & Inspection**, quality assurance and process improvement. From software to system to service.

Our PRO C Series.

The **PRO C** Series is our modular X-ray system for medium to large parts which combines robust engineering with a high flexibility.

Its 7+ axis C-arm manipulator concept and configurable cabinet options (in size and performance 225–450 kV) let you adapt one platform to many inspection tasks.

Combined with the x.OS software ecosystem, it is clearly ready for advanced applications such as Computed Tomography (CT) and Automated Defect Recognition (ADR).



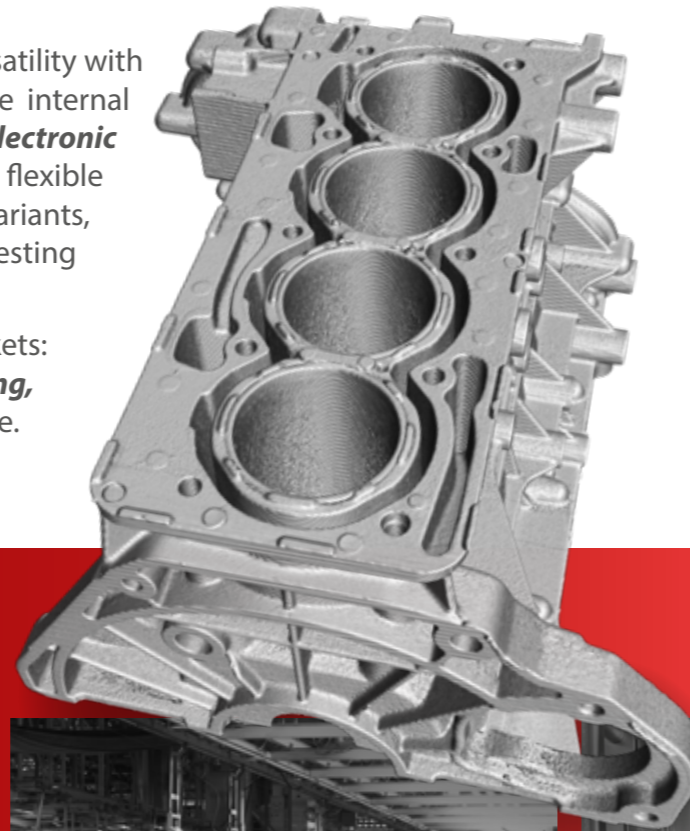
BENEFITS at a glance:

- ✓ Maximum flexibility for today and tomorrow with a modular, scalable, and upgrade-ready system design.
- ✓ High cost-effectiveness through automated material flow and maximum throughput.
- ✓ Secure decisions due to digital defect recognition and AI.
- ✓ Reliable part analysis thanks to premium imaging.

What to inspect with PRO C.

The **PRO C** Series combines maximum application versatility with a consistently modular system concept. Whether fine internal structures in e.g., **AM components, turbine blades, electronic assemblies or cast and welded parts**—thanks to flexible chamber sizes, loading concepts, tube and detector variants, each system can be adapted precisely to your testing requirements.

The **PRO C** series covers a wide range of markets: **Automotive, Aerospace, Additive Manufacturing, Plastics Processing, Defense, Oil & Gas** and many more.



Your Application – Your Configuration.

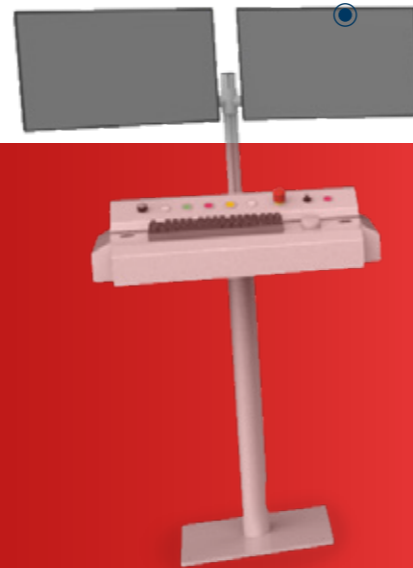
Our Modular System Platform.

Thanks to the modular system platform and scalable cabin sizes, the system can be perfectly adapted to the requirements of your application and further customized with expandable, updatable modules, thereby securing your investment in the long term.



CABIN & CONTROL UNIT

Different cabins ensure the right space-to-part ratio and integration into processes.



The modular system platform realizes:

- ✓ Tailored application configuration.
- ✓ Maximum future-proofing thanks to expandable and updatable modules.
- ✓ Adaptable to small, medium and large part loading and handling.
- ✓ Flexible integration into existing processes.



IMAGING CHAIN

Well-coordinated components produce the best possible image.



SAFETY & OBSERVATION

Add safety and observation components to meet your requirements.



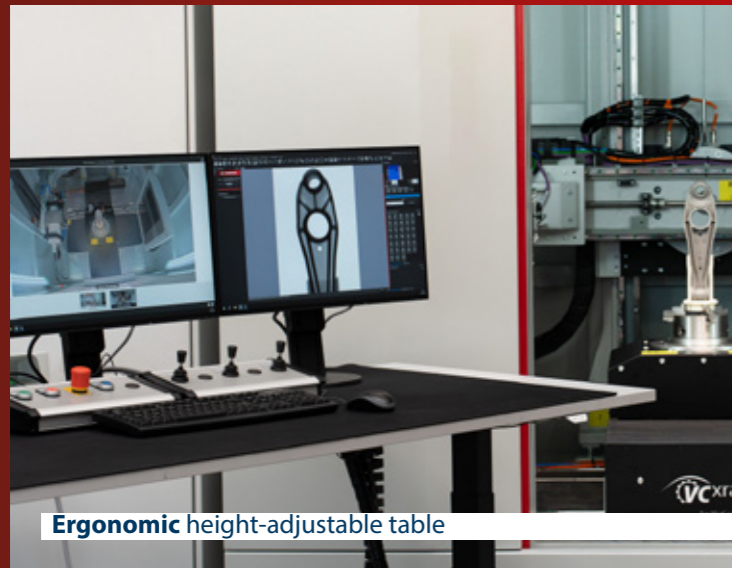
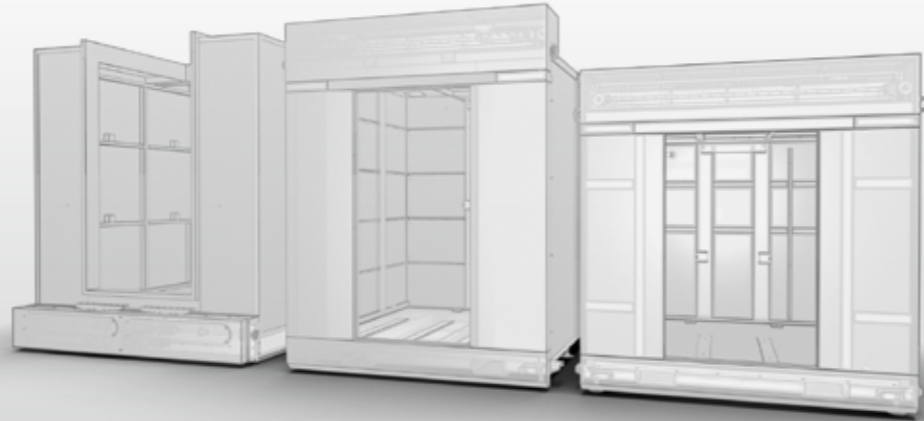
PART HANDLING

Partly adaptable components ensure the best way of internal machine part handling.

Cabin & Control Unit.

Different **cabin sizes** ensure the right space-to-part ratio and integration into processes.

Different **control units** ensure the right blend of efficiency and operator comfort for your workflow.



Ergonomic height-adjustable table

Control units

Two control units are available for operating the PRO C:

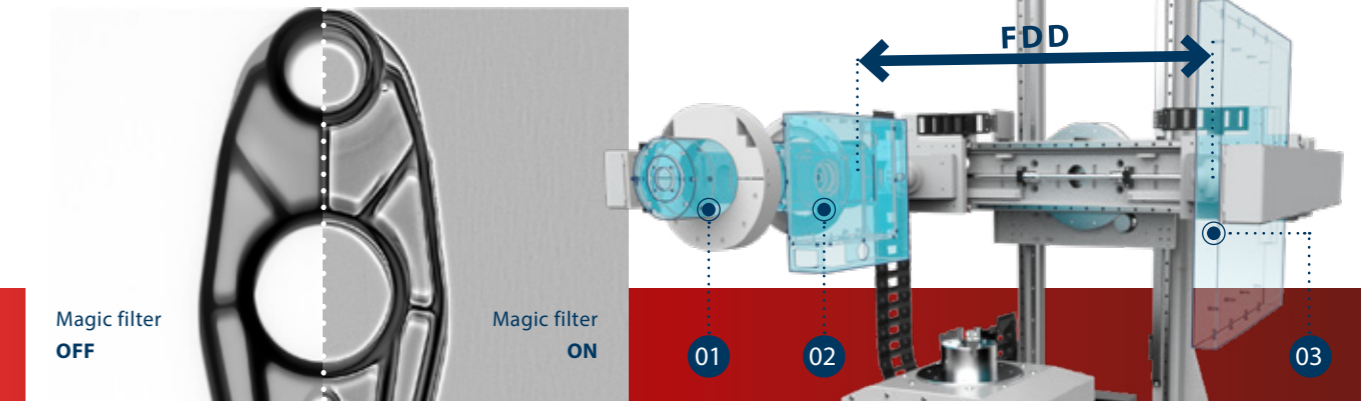
- ✓ **Compact Control Console** for space-saving, fast operation at the machine.
- ✓ **Ergonomic** height-adjustable table for optimal posture and comfort during long shifts.

Both options ensure intuitive handling, consistent results, and a perfect fit for your application.

Imaging Chain.

Highly modular architecture, configurable X-ray tubes & detectors - CT is always an option.

Advanced image chain movability via FDD (focus-detector-distance) enabling maximum inspection flexibility and image quality.



01 X-ray Tubes

Broad range of premium X-ray tubes, from 225 to 450 kV.

02 Beam Conditioning

Choose the right components for image optimization, such as Collimators, Filter, Shutter, Laser Cross and more.

03 Detectors

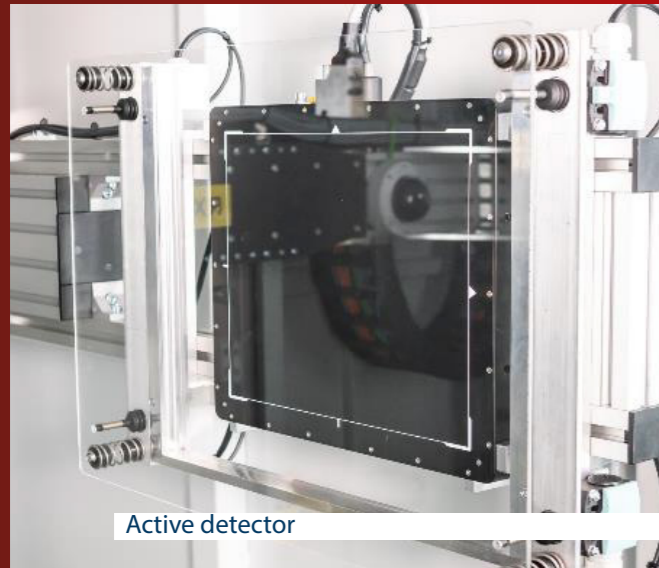
Our selection of detectors—varying in size, sensitivity, and resolution – will meet the needs of your application

Safety & Observation.

Beyond the standard safety and observation components, we offer optional enhancements—such as additional in-cabinet surveillance cameras for extended process visibility and front-of-machine laser area scanners that monitor access zones in real time.



Light Curtain



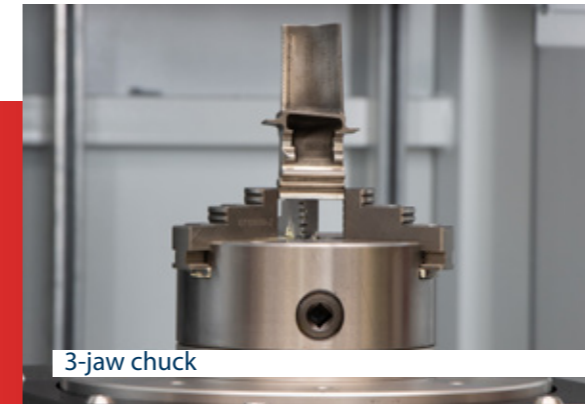
Active detector



Additional in-cabinet surveillance cameras.

Part Handling.

Because no two parts are alike, our part handling concepts—featuring rotary tables, stacking options, or customized fixtures—accommodates everything from very small components to large, heavy assemblies, ensuring secure positioning, repeatable results, and high throughput.

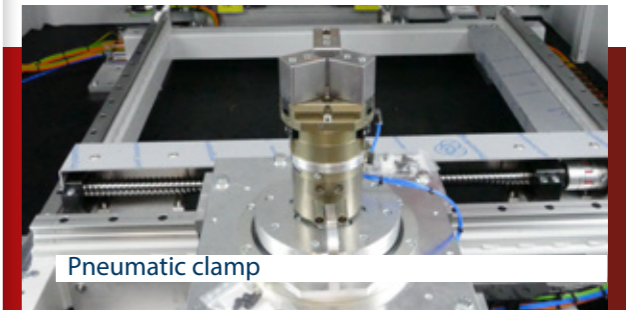


3-jaw chuck

PRO C offers a range of part holders, partly customizable to specific needs. This allows adaptation to the individual geometry of each test part. This minimizes set-up and handling times while ensuring smooth and, fast inspections.



Rotating table for multiple parts



Pneumatic clamp



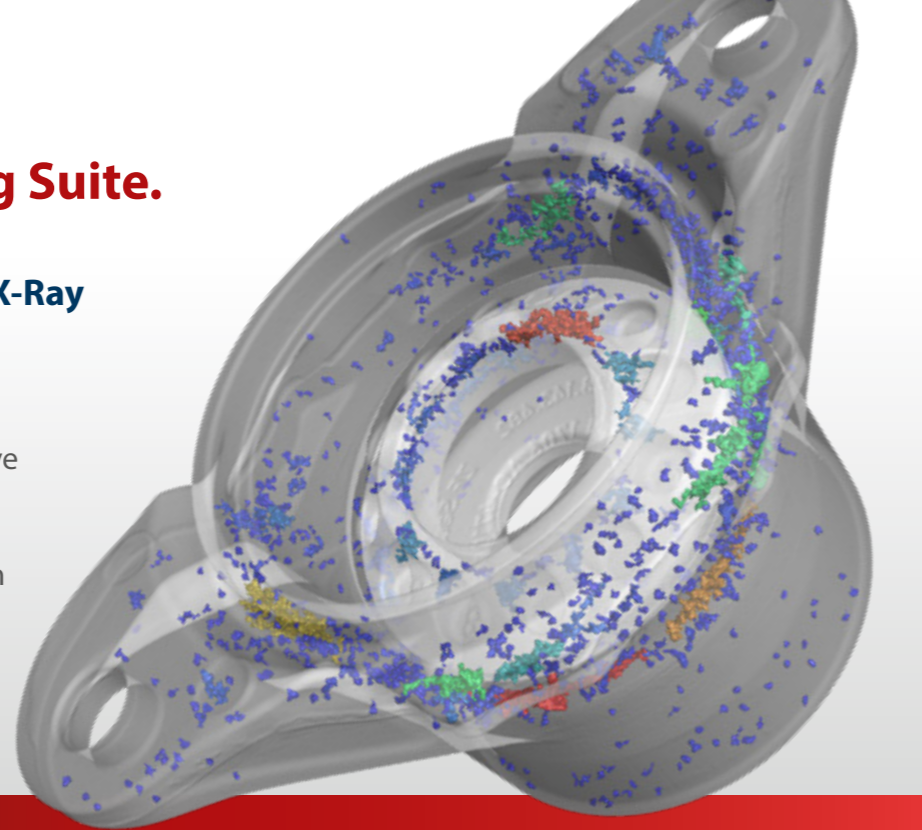
Roller table for easy loading

Adapted solutions:

x.OS, X-ray Operating Suite.

➤ Software, Comprehensive X-Ray Operating Suite

The **x.OS** is an innovative software ecosystem that is both comprehensive and configurable at the same time. This modular approach can be used as separate offline applications or can be configured as an interconnected online solution — and virtually everything in between.



➤ Computed Tomography (CT)

- ✓ Dimensional Measurement and Reporting
- ✓ Assembly Verification and Visualization
- ✓ External and internal Measurement
- ✓ Form Analysis
- ✓ Defect Detection
- ✓ Fiber Flow Analysis
- ✓ Failure Analysis

➤ Automated Defect Recognition (ADR)

- ✓ All PRO systems are ADR capable
- ✓ Allows detection of defects such as porosities
- ✓ Including an ADR offline programming toolbox
- ✓ Evaluation criteria such as defect size, defects per area, distance between defects

VC.control

System control and automation software.

VC.acquire

Image acquisition and enhancement software.

VC.planner

Offline programming solution for systems.

VC.review and VC.reco

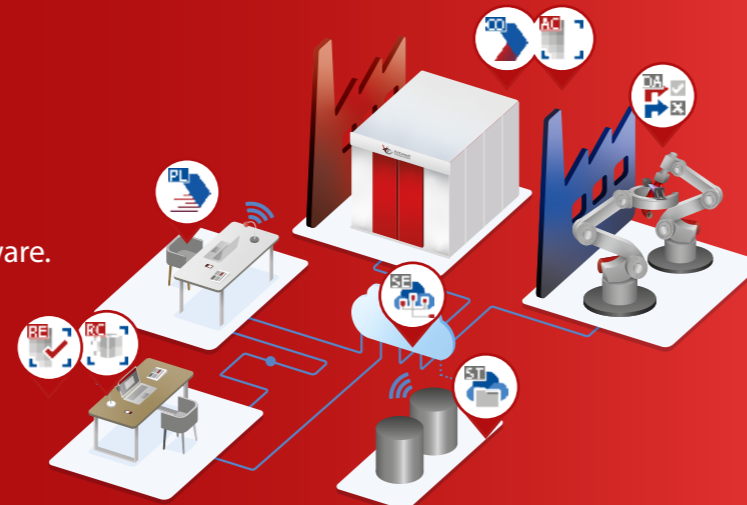
Image review and post-processing software.
CT-scan reconstruction and management software.

VC.dashboard

Status real-time visualization of inspection status.

VC.server & VC.storage

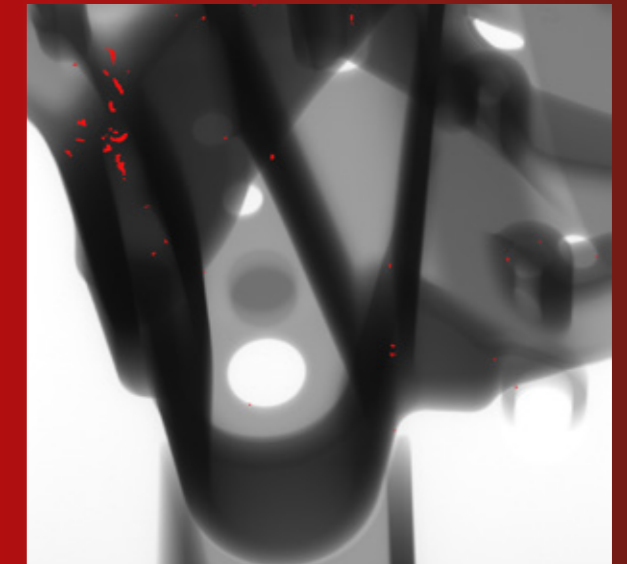
Central management, connectivity server.
Long-term storage and X-ray image archive.



➤ Smart Inspection with AI in NDT

The main task of AI in NDT applications is machine learning (ML), which means training algorithms to reliably solve complex pattern recognition tasks such as detecting a porosity. This requires a significant amount of labeled training data.

If you are interested in our AI pilot program, please contact us. We provide contact data on the back page.



Technical Overview PRO C.

The **PRO C** Series is an advanced configurable cabinet solution for X-ray inspection of medium-to-large parts.



	PRO C	PRO C XL	PRO CTL	
Part Size	● ● ● ●	● ● ● ●	● ● ● ●	
Speed (Kinematic)	● ● ● ●	● ● ● ●	● ● ● ●	
Flexibility	● ● ● ●	● ● ● ●	● ● ● ●	
ADR / CT*	✓ / ✓	✓ / ✓	✓ / ✓	
X-ray Source & Cabinet dimension	225 kV 3000 x 2450(±10) x 2410 mm	3000 x 2950(±10) x 2430 mm	3300 x 3100(±10) x 3050 mm	
	320 kV 3150 x 2650(±10) x 2640 mm	3150 x 3100(±10) x 2640 mm	3300 x 3100(±10) x 3050 mm	
	450 kV 3300 x 2700(±10) x 2730 mm	3300 x 3195(±10) x 2730 mm	3300 x 3100(±10) x 3050 mm	
Maximum part size **	Ø x H	Ø950 x 1130 mm	Ø950 x 1630 mm	Ø1000 x 1800 mm
Inspection envelop **	Ø x H	Ø900 x 900 mm	Ø900 x 1500 mm	Ø900 x 1500 mm
Tilt axis (RX) ***		+/-30° max	+/-30° max	+/-30° max
Max. part weight		600 kg	600 kg	600 kg

* Automated Defect Recognition / Computed Tomography / ** Without external loading mechanism / *** Depending on configuration, (e.g. pannel size)

See More of our PRO Series.

The **PRO H** is a universal and compact X-ray cabinet for small to medium parts, offering the widest range of components for imaging chains.



The **PRO FI** is designed for rapid inspection of small to large castings, ideal for high efficiency and manual or automatic use.



The **PRO TB** is designed for rapid, high-quality inspection of turbine blades, featuring extensive internal automation and optimized for high throughput in both manual and automatic operation.



PRO H	PRO FI	PRO TB
● ● ● ●	Optimised for Alu casting parts.	Optimised for Turbine blade parts.
● ● ● ●		
● ● ● ●		
✓ / ✓	✓ / ✗	✓ / ✗
<ul style="list-style-type: none"> ✓ Compact layout and footprint ✓ Designed for small to medium sized parts like castings. ✓ Widest variety of sources and detectors. 	<ul style="list-style-type: none"> ✓ Faster analysis of a large amount of data, reducing inspection time. ✓ Consistent results, detection of smaller and harder-to-see defects. ✓ Suitable for all casting applications. 	<ul style="list-style-type: none"> ✓ Optimized layout and workflow for turbine blades. ✓ High-speed, high-quality inspection for large production volumes. ✓ Advanced automation for high-speed, consistent results.



Regional headquarters

EMEA
Stockelsdorf, Germany
Tel: +49 451 290 286 0

Americas
Atlanta, US
Tel: +1 888 972 9821

APAC
Pune, India
Tel: +91 124 4048273

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sales@visiconsult.de
www.vc-xray.com