

Waygate Technologies offers Mesofocus technology for Phoenix V|tome|x Minifocus CT systems

HÜRTH, Germany, September 5, 2024 – Waygate Technologies, a [Baker Hughes](#) business and world leader in non-destructive testing (NDT) solutions for industrial inspection, now offers a Mesofocus X-ray tube for optional integration with its Phoenix V|tome|x C450 computed tomography (CT) systems.

The closed Comet iXRS 450 MF tube provides an alternative to the 450 kV ISOVOLT Minifocus X-ray tube of Waygate Technologies. Mesofocus technology offers a reliable solution for high-resolution 3D CT inspection of large or dense components. The technology delivers the high penetration power of Minifocus tubes while maintaining the high resolution of Microfocus tubes necessary for many R&D and quality assurance CT tasks in production environments. Applications can be found in battery production, foundries, additive manufacturing, the electronics industry (especially for large electronics), as well as in the aerospace industry for the inspection of turbine blades.

Scatter|correct combined with Mesofocus for optimal CT quality

Waygate Technologies further improves CT performance by combining Mesofocus technology with its own patented Scatter|correct technology. This innovative solution measures and corrects scattered radiation artifacts from the CT volume in real-time, ensuring optimal CT image quality with accurate defect detection and 3D metrology precision even in the most challenging inspection scenarios.

Mesofocus X-ray technology: high resolution meets high penetration

Traditionally, industrial CT has relied on two main X-ray tube technologies: Minifocus and Microfocus. Sealed Minifocus tubes excel in power and robustness, making them ideal for production environments. However, their large focal spot size limits resolution. Conversely, Microfocus tubes offer superior resolution but lack the penetration power required for dense materials and demand more frequent maintenance. Mesofocus technology addresses this challenge and combines the high penetration power of Minifocus with the high resolution of Microfocus, enabling CT inspections at 450 kV with focal spot sizes down to 63 microns.

The main advantages of Mesofocus technology are:

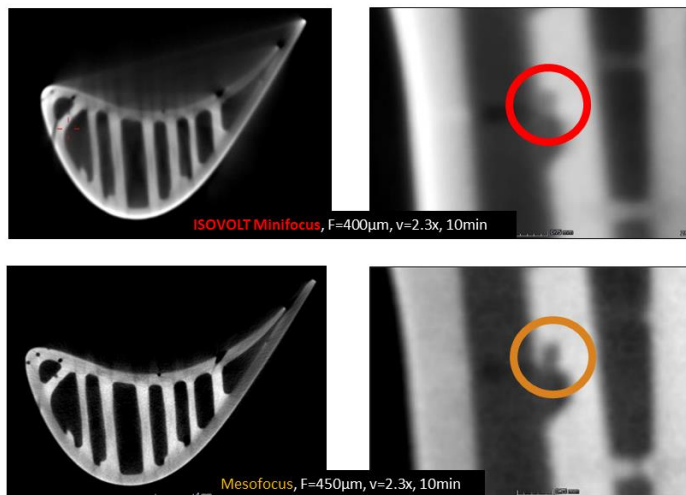
- An optimal balancing of power and resolution which enables the NDT-inspection of large, dense parts with high detail accuracy.
- Low maintenance and high uptime due to the robust and sealed design that ensures 24/7 operation in harsh environments.
- Stability, repeatability, and accuracy based on the stable dose rate, eliminating the need for frequent recalibration, critical to mass production inspection.

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Learn more or contact Waygate Technologies:

- Mesofocus for Phoenix V|tome|x Minifocus CT systems [product page](#)
- Phoenix V|tome|x C 450 [product page](#)
- Scatter|correct [product page](#)
- Waygate Technologies corporate website: waygate-tech.com
- Waygate Technologies [LinkedIn Channel](#)
- Waygate Technologies [YouTube Channel](#)

Images



The results of Mini- versus Mesofocus in the example of blade inspection.

About Waygate Technologies

Waygate Technologies is part of the Inspection portfolio within the Baker Hughes (NASDAQ: BKR) Industrial & Energy Technology business segment. As an industrial inspection solutions provider and world leader in nondestructive testing (NDT), we ensure safety, quality and productivity. We combine more than 125 years of experience and a collection of heritage product brands including Krautkrämer, Phoenix, Seifert, Everest and Agfa NDT. Today, hundreds of brands in the aviation, space exploration, automotive, energy and battery industries trust our technologies. We drive digital transformation through a broad portfolio of award-winning solutions in industrial radiography and computed tomography (CT), remote visual inspection (RVI), ultrasound (UT), and robotic inspection. *Inspection starts here:* bakerhughes.com/waygate-technologies

About Baker Hughes

Baker Hughes (NASDAQ: BKR) is an energy technology company that provides solutions to energy and industrial customers worldwide. Built on a century of experience and conducting business in over 120 countries, our innovative technologies and services are taking energy forward – making it safer, cleaner and more efficient for people and the planet. Visit us at bakerhughes.com.



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