

Press Release

YXLON CT Compact computer tomography system equipped with newly developed line detector

Hamburg, August 2018: With the YXLON CTScan 3 Yxlon launches its own completely new line detector and replaces the predecessor Y.LineScan. As of now, the CT Compact computer tomography system will be equipped with the new line detector YXLON CTScan 3 as a standard component. In the future, the YXLON FF85 CT and CT Modular systems will also benefit from its capabilities. Ground-breaking technological advancements and optimized production methods deliver unsurpassed image quality, and significantly reduce susceptibility to noise. Beside the interference-resistant and low-noise electronics, the specially developed photodiodes in particular ensure an extremely uniform signal.

Where previously, the crystals had to be manually split by specialists, production is now machine-supported with the new CTScan 3, resulting in an improvement in crystal uniformity by factor 5. This leads to reduced ring artifacts, and the high repeatability of the signal allows optimal calibration. Due to the higher dynamic range and better signal stability, greater material thicknesses can be tested with the same X-ray energy. The solid housing is particularly resistant to temperature fluctuations, ensuring optimized cooling of the electronics. At the same time, it ensures very little scatter within the detector, resulting in much sharper images, cleaner edges and an improved detail detectability.



The CT Compact system is an efficient fan-beam CT system for medium to large castings designed for the automotive and aerospace industries, but it is also suited for the non-destructive analysis of dense art-historical and archaeological objects and large-scale geological samples. Multiple CT projections can be generated in a single test run, each with different parameters for the different object areas. This allows for a much faster testing process with consistent image quality. In addition, more than one component can easily be displayed in each test cycle using the multi-part testing function.

YXLON

Technology with Passion

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About YXLON

YXLON International designs and produces radiosopic and CT inspection systems for the widest variety of applications and fields. Whether situated in the aviation & aerospace, automotive or electronics industry, our customers are among the largest producers, major enterprises that place their confidence in our quality worldwide.

The name YXLON stands for assurance and quality for all types of cast parts, tires, electronic components, turbine blades, welded joints and a lot more. Our product portfolio includes X-ray systems for installation in radiological inspection envelopes, universal X-ray inspection systems on the basis of fully shielded devices, as well as solutions specific to a customer. Whether in manual, semi or fully automated operation, our inspection systems are ideal for deployment in research & development and can be integrated into any production process.

CT systems have been an integral part of our product portfolio since as far back as 2003. Computed tomography provides a three-dimensional insight into inspection items, thus enabling the analysis of inner structures, dimensional measurement tasks in metrology applications or actual-to-nominal comparisons to CAD data, to name only a few examples. Besides delivering a more precise inspection evaluation when compared with radiography, computed tomography also provides valuable information about the production process. Above and beyond such advantages, our microfocus systems permit highly detailed looks into the most intricate structures and tiniest components.

With our headquarters in Hamburg, sales and service locations in Yokohama, Hudson (Ohio), San Jose (California), Beijing, Shanghai, Hattingen and Heilbronn, as well as a network of representatives in over 50 countries, as YXLON we're local for our customers all over the world.

Since 2007, YXLON International has been a member of the COMET Group.