

For Immediate Release

TESCAN Announces UniTOM HR—The First Dynamic Micro-CT System to Deliver Sub-micron 3D Imaging for Static Studies and High Temporal Resolution for 4D Time-resolved Studies

UniTOM HR is a single solution that provides insight to a sample's internal structure as well as its behavior under environmental conditions over time

Brno, Czech Republic, August 19, 2021—TESCAN ORSAY HOLDING a.s. announces the release of its new UniTOM HR—the first dynamic micro-CT system to offer sub-micron resolution 3D non-destructive imaging for static studies and high temporal resolution for uninterrupted 4D dynamic CT experiments. UniTOM HR is ideal for both industrial and academic researchers that need micro-CT imaging to visualize a sample's internal structure and also want to gain a deeper understanding of a sample's behavior under certain environmental conditions.

“TESCAN's dynamic micro-CT portfolio brings fast dynamic CT imaging from the cutting-edge synchrotron to the mainstream laboratory,” states Marijn Boone, product manager, TESCAN. *“UniTOM brings together the most sought-after micro-CT capabilities, giving researchers a versatile solution that covers a broad range of 3D imaging and in-situ applications, handles a variety of sample shapes and sizes, and enables 4D time-resolved dynamic experiments.”*

UniTOM HR can characterize newly developed materials at the highest possible micro-CT spatial resolution, a requirement for sub-micron scale static 3D imaging. It can also provide researchers with a better understanding of how these new materials, and functional components created from these materials, will behave under changing conditions through real-time, not time-lapse, visualizations. This dynamic capability sets UniTOM HR apart from other micro-CT instruments on the market.

Boone adds, *“Many time-dependent processes are unpredictable and capturing the most important aspects of the process may not be possible in an interrupted or time-lapse collection scheme. TESCAN has resolved this issue with its dynamic CT technology that collects data throughout the entire process, providing a wealth of information previously unavailable to researchers.”*

TESCAN is the leader in developing dynamic micro-CT as a turnkey solution. TESCAN's DynaTOM, the world's first dedicated dynamic micro-CT for complex in-situ experiments, manages all cabling and tubing through an innovative design that eliminates wrapping or entanglement. TESCAN's other dynamic micro-CT systems include UniTOM XL, for high-throughput experiments on a diverse range of samples, and CoreTOM for multi-scale micro-CT investigations in earth sciences.

For more information about TESCAN's dynamic micro-CT solutions, please visit micro-CT [webpage](#).

About TESCAN

TESCAN enables nanoscale investigation and analysis within the geosciences, materials science, life sciences and semiconductor industries. The company has a 30-year history of developing innovative electron microscopy, micro-computed tomography, and related software solutions for customers in

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research and industry worldwide. As a result, TESCAN has earned a leading position in micro- and nanotechnology. For more information visit: www.tescan.com.

TESCAN ORSAY HOLDING was established in 2013 as a result of long-term expansion and establishment of subsidiaries worldwide, including France-based ORSAY PHYSICS, a world leader in customized focused ion and electron beam technology. TESCAN ORSAY HOLDING maintains its headquarters, production and R&D in Brno, Czech Republic. Every TESCAN microscope is expertly produced in Brno and shipped to customers worldwide.

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