

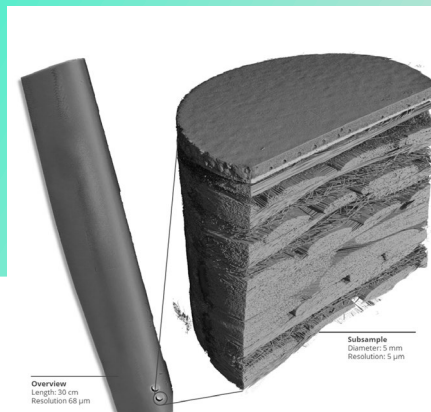
Tescan CoreTOM and UniTOM XL

The highest temporal resolution,
workhorse micro-CT for your
multi-sample, multi-scale,
3D and dynamic imaging needs

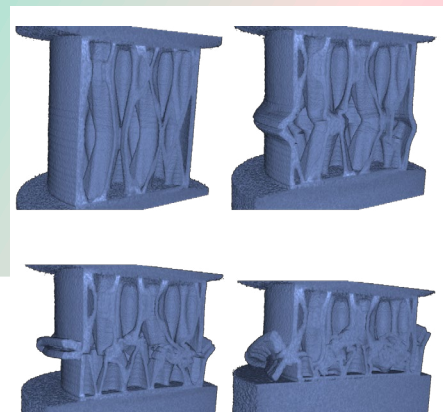
Tescan CoreTOM, and the larger UniTOM XL, provide institutional and industrial research facilities with a highly versatile micro-CT system capable of handling the greatest variety of sample size and type, collecting data across multiple length scales, for conducting standard 3D non-destructive imaging and continuous dynamic CT for true 4D in situ experiments.



↑ Li-ion Battery with VOIS
[Watch the video](#)



↑ Large Fiber Composite sample showing voids



↑ Compression of 3D printed parts
[Watch the video](#)

Key Benefits

- **Leverage the highest temporal resolutions for high throughput** – High scan rates (down to seconds per scan), coupled with easily defined batch imaging scripts, increase sample throughput.
- **Investigate a wide range of sample sizes** – Image samples up to 1 meter tall x 0.5 meter wide thanks to the large vertical travel of the source and detector as well as detector lateral translation. Extend sample versatility further with an additional 1m source to detector distance on the UniTOM XL.
- **Perform true 4D imaging with Dynamic CT** – High temporal resolution, continuous and uninterrupted scanning, and specialized 4D software tools bring synchrotron-like capabilities to the lab
- **Implement 3D in situ experiments** – continuous sample rotation and scanning enable uninterrupted in situ experiments. Dedicated “no-cable-wrap” interfaces simplify experiment set-up.
- **Collect multi-scale image data** – Independent source and detector travel provide maximum flexibility for resolution, field of view, and optimized x-ray photon flux. Volume of Interest Scanning (VOIS) is supported through a sample positioning stage and simple navigation through the Panthera™ software