

TESCAN announces the release of the TESCAN Rocking Stage to improve high current milling processes on TESCAN Plasma FIB-SEM instruments

As an integrated component for TESCAN Plasma FIB-SEM, the new TESCAN Rocking Stage will further improve milling speed and accuracy to contribute to overall faster time to data.

December 7, 2020. TESCAN ORSAY HOLDING a.s. announces the release of the TESCAN Rocking Stage, a fully integrated component for TESCAN Plasma FIB-SEM instruments which operates seamlessly with TESCAN hardware and software. This TESCAN-designed Rocking Stage delivers new capabilities not available with other rocking stage configurations such as Y axis tilt perpendicular to main stage X axis tilt and real-time SEM monitoring of the milling process for precise end-pointing.

“Rocking stage technology is the most efficient method for improving surface quality and mitigating curtaining artifacts that can result from the use of higher beam currents that speed material removal,” states Lukáš Hladík, Product manager for FIB-SEM portfolio for Semiconductor industry. “Time to result is a priority for customers in both semiconductor failure analysis and advanced materials research which is why they utilize plasma FIB. The TESCAN Rocking Stage further contributes to time to result because setup and operation is performed within the already familiar TESCAN Essence GUI. Additionally, the TESCAN Rocking Stage does not impede the operation of other hardware components.”

The Rocking Stage setup wizard allows users to set-up an automated milling and rocking workflow, including defining and storing two or more rocking positions. The TESCAN Rocking Stage design preserves the versatility of the FIB-SEM system, including full compatibility with the load locks, Beam Deceleration Mode (BDM) and the RSTEM detector. The TESCAN Rocking Stage can accommodate large or flat thin samples, up to 4” wafer. As a TESCAN component, all support for the TESCAN Rocking Stage is handled by TESCAN.

The TESCAN Rocking Stage can be ordered from 10th December 2020 as an option on new SOLARIS X and AMBER X Plasma FIB-SEM systems. Current users of SOLARIS X and AMBER X G4 series instruments can contact TESCAN to inquire about adding the new TESCAN Rocking Stage. Learn more about the new TESCAN Rocking Stage [here](#).

About TESCAN

TESCAN is a Czech producer of electron microscopes. The company was established in 1991 by R&D employees and service engineers of TESLA Company with the aim to continue in traditional production of electron microscopes in Brno. TESCAN presented its first instrument PROXIMA in 1996. This and other model ranges booked TESCAN its place among renowned world producers. Long-term expansion and establishment of subsidiaries worldwide culminated in 2013 with establishment of a holding with a French company ORSAY PHYSICS. This gave rise to TESCAN ORSAY HOLDING, which still keeps its headquarters, production and R&D in Brno-Kohoutovice. Every TESCAN microscope is produced in Brno, even though roughly 95 % of the production travel to customers worldwide. The biggest customers include universities, research centers and industrial and production companies in various sectors. More than 500 TESCAN ORSAY HOLDING employees produce nearly 300 microscopes every year, which constitutes the annual turnover of approx. CZK 2 billion.

Media Contact: marketing@tescan.com

TESCAN ORSAY HOLDING, a.s.

Libušina tř. 21, 623 00 Brno,
Czech Republic, EU

IČO: 41600240

(phone) +420 530 353 411
(email) sales@tescan.com

www.tescan.com
www.tescan-orsay.eu