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**Smart 5-axis measurement with XM-60 multi-axis calibrator**

Renishaw’s latest release of its [CARTO software suite](https://www.renishaw.com/en/carto-software-suite--31845), version 4.8, provides the ability to perform off-axis rotary measurement with the [XM-60 multi-axis calibrator](https://www.renishaw.com/en/xm-60-and-xm-600-multi-axis-calibrator--39258). The [off-axis rotary measurement mode](https://www.renishaw.com/en/carto-add-ons--24159) in the CARTO Capture application now features the XM-60 multi-axis calibrator, enabling measurement of all axes of a 5-axis machine tool with a single laser system. This expanded capability simplifies the process of calibrating rotary axes where the Renishaw [XR20 rotary axis calibrator](https://www.renishaw.com/en/xr20-rotary-axis-calibrator--15763) cannot always be mounted on the centre of rotation.

Dan Throup, Product Owner for Calibration Software, explained,“Users will see a real benefit from the increased productivity from the XM-60 multi-axis calibrator. The XM-60 laser applies CARTO Capture’s automatic sign detection and position-based trigger to make the process quicker and eliminate user error previously associated with off-axis rotary measurement.”

The Renishaw XR20 rotary axis calibrator has become established as the market-leading solution for direct measurement of rotary errors for stages, jigs, and machine tools. The   
off-axis rotary measurement mode in the CARTO software suite provides XM-60 multi-axis calibrator users the ability to quickly capture, and analyse data, from all rotary axes, of any configuration.

Renishaw will be demonstrating the CARTO software suite, its premium digital ecosystem for its laser calibration products, at the at the IMTS 2024 exhibition Quality Assurance Booth # 134314, from 9th – 14th September. CARTO contains three applications; Capture to collect laser measurement data, explore for powerful analysis to international standards and compensate for quick and easy error correction.

For more information on Renishaw’s calibration and performance monitoring products, visit [www.renishaw.com/calibration](https://www.renishaw.com/en/machine-calibration-and-optimisation--6330)

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