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**Renishaw introduces powerful new features and enhanced capability for MODUS™ metrology software, MODUS Planning Suite and MODUS CHART at EMO Milano 2021.**

Renishaw will be showing the latest developments of its MODUS metrology software at EMO Milano 2021 (hall 5, stand C14). The software continues to lead the way in high-performance industrial inspection, providing an optimal platform for the performance of Renishaw’s REVO® 5‑axis multi-sensor measurement system for co-ordinate measuring machines (CMMs).The flagship REVO system offers six interchangeable sensors, all on a single CMM and all with the speed, accuracy and flexibility of a 5‑axis system.

In addition to optimised support for REVO’s latest sensor, the new RUP1 ultrasonic probe, MODUS 1.12 offers multiple enhancements in flexibility and usability for existing REVO sensors, such as the ACM angle change mirror for the RVP vision probe. New features in this new release include upgrading the software to a 64‑bit application that will support large CAD models, advanced filtering options in line with ISO 16610 standards, and characteristics-based reporting.

MODUS 1.12 also enhances process monitoring capability by linking directly to the Renishaw Central manufacturing data platform, making it easy for a variety of systems and processes to access Renishaw device data.

Programmers will benefit from multiple new MODUS features. These include enhanced tolerancing to the latest ISO and ASME standards which take advantage of advances in GD&T tolerancing standards, and the ability to support the Quality Information Framework (QIF) standard for exporting metrology data.

Specific tools in MODUS for programming (MODUS Planning Suite) and reporting (MODUS CHART) have also been enhanced with powerful new features.

MODUS Planning Suite is designed to provide CMM users with specialised tools that scan curves and sweep surfaces, maximising the efficiency of the REVO system. It automatically plans around complex geometry with minimal user input and removes the need for online CMM prove-out using three innovative software tools: MODUS Patch, MODUS Curve and now, MODUS Blade.

MODUS Patch delivers the most efficient measurement path with the REVO RSP2 sensor, quickly and easily, with automatic on-surface planning of sweep scans.

MODUS Curve provides increased capability to measure complex geometries using different probe assemblies. Curves can be defined by the selection of edges from the CAD model or by clicking points on a plane. MODUS Curve also introduces constrained motion measurement. Constraining one or more axes of the CMM maximises the use of the REVO system head motion and minimises the motion of the CMM. This presents the opportunity to measure parts quicker or achieve a higher level of accuracy from an existing machine.

The latest addition to the MODUS Planning Suite, MODUS Blade, enables the user to plan sweep scans on concave and convex, leading and trailing edge surfaces. The settings and measurement strategies allow the user to customise the measurement paths, providing the ability to control the number of sweeps per surface and change the direction of measurements between longitudinal and transverse sweeps, facilitating the full blade inspection.

The MODUS CHART software package uses QIF XML files and generates rich reports showing graphical information against the true location on the part using the part CAD model.

Reporting functionality includes on-CAD plots with flexible callout positioning and configuration, surface heatmap colouring and automatically generated feature tables for the display of all feature tolerances. The new errors-only reporting option allows for the quick creation of reports which only include features that are out of tolerance, reducing report size and focusing on the results which are most important.

From October 4th – 9th, visitors will be able to see MODUS metrology software in action on stand C14, hall 5 at EMO Milano 2021.

For further information, visit www.renishaw.com/modus.

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**Notes to editors**

**About Renishaw:**

UK-based Renishaw is a world leading engineering technologies company, supplying products used for applications as diverse as jet engine and wind turbine manufacture, through to dentistry and brain surgery. It has over 4,000 employees located in the 37 countries where it has wholly owned subsidiary operations.

For the year ended June 2020 Renishaw recorded sales of £510.2 million of which 94% was due to exports. The Company’s largest markets are China, the USA, Japan and Germany.

Throughout its history Renishaw has made a significant commitment to research and development, with historically between 13 and 18% of annual sales invested in R&D and engineering. The majority of this R&D and manufacturing of the Company’s products is carried out in the UK.

The Company’s success has been recognised with numerous international awards, including eighteen Queen’s Awards recognising achievements in technology, export and innovation.

Further information at [www.renishaw.com](http://www.renishaw.com/)