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Renishaw will showcase its extended range of shop floor inspection solutions at EMO Hannover 2025

Renishaw, a world leader in measuring and manufacturing systems, will be showcasing an extended range of products designed to provide fast, automated and flexible inspection on the shop floor. Visitors to the stand (hall 5, stand D06) will see the new Equator-X™ 500 dual‑method gauge alongside its AGILITY® shop floor multi-sensor CMM system.

The innovative Equator-X gauge brings unique capabilities to manufacturers around the world, enabling them to select the optimum inspection method, Absolute or Compare, for their process challenge, effectively deploying two systems in one.

In Absolute mode, the Equator-X system measures parts at scanning speeds of up to 250 mm/s, significantly improving the inspection capacity and throughput for manufacturers of small to medium batch sizes and high part variety. This mode is particularly useful for first-off verification next to the machine or even at-line 100% inspection.

In Compare mode, the Equator-X system delivers an ultra-high scanning speed of up to 500 mm/s and is ideal for inspecting large batches of the same component when cycle time is a priority. It also provides a high-speed measurement option where varying thermal environments present a challenge.

Key benefits of the system include increased throughput, with high-speed measurement that increases inspection capacity; fully traceable in-process verification of parts on the shop floor, continuous validation of the production process, and the flexibility to select the optimal measurement method for each application with a single device.

**Innovative technology and versatile software platform**

The Equator-X 500 gauge is a dynamically stiff hexapod structure with independent drive and metrology frames. High-speed motion is achieved without compromising metrology thanks to design features such as carbon fibre metrology struts, linear motor drives and the industry standard SP25M scanning probe.

The system can be deployed as a standalone shop floor device or integrated within a fully automated cell, offering unrivalled flexibility to adapt to evolving demands and variable shop floor conditions.

The standard software platform for the new Equator-X 500 system features an intuitive and feature‑rich operator interface coupled with Renishaw’s latest MODUS™ IM Equator metrology software applications. This comprehensive suite of software tools delivers outstanding convenience and robust performance for programming, reporting and operation, simplifying complex tasks and enhancing user experience.

**AGILITY® CMM range**

Also on display, the range of AGILITY® co-ordinate measuring machines (CMMs) has been designed and made for speed and accuracy, building on Renishaw’s unrivalled reputation for innovation in the most demanding industry sectors. It is optimised for Renishaw’s REVO® 5‑axis multi-sensor system and delivers unique capability to the shop floor. The tried and tested range of AGILITY CMMs also includes machines for the measurement lab, offering high throughput platforms capable of using any one of the seven dedicated REVO sensors.

Renishaw’s AGILITY S shop floor CMMs provide a highly accurate and robust solution for inspecting manufactured parts in a production environment where clean air and temperature control cannot be guaranteed. They are available with working volumes ranging from 700 mm × 900 mm × 600 mm up to 1600 mm × 2400 mm × 1200 mm (X × Y × Z), plus variants with a raised working volume to accommodate pallet loading systems or rotary tables. All shop floor models have elevated Y-axis guideways for further stability and protection from airborne contaminants.

AGILITY L machines, designed for the metrology lab, are specified for a temperature range of 18 °C to 22 °C and provide high-performance, multi-sensor 5-axis measurement in clean rooms. The single-sided raised Y-axis design with an outrigger leg expands accessibility for manual part loading when automation is not required. AGILITY L frames are available with working volumes ranging from 500 mm × 500 mm × 500 mm up to the new and largest 2000 mm × 3000 mm × 1600 mm (X × Y × Z).

The Equator gauging products and AGILITY CMMs are compatible with Renishaw Central; a powerful manufacturing data platform which enables CNC connectivity and closed-loop process control on the shop floor. Renishaw Central uses measurement data to identify deviations and automatically send correction updates to the appropriate manufacturing machines.

From 22 – 26 September 2025, visitors will be able to see Renishaw’s latest innovations for quality management, including Equator-X and AGILITY CMMs, at EMO Hannover 2025; hall 5, stand D06.

For further information on Equator-X dual-method gauges, AGILITY CMMs, and other innovative products for manufacturers, visit [www.renishaw.com](http://www.renishaw.com)

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**About Renishaw:**

Renishaw is a world leading supplier of measuring systems and manufacturing systems. Its products give high accuracy and precision, gathering data to provide customers and end users with traceability and confidence in what they’re making. This technology also helps its customers to innovate their products and processes.

It is a global business with over 5,000 employees located in the 36 countries where it has wholly owned subsidiary operations. The majority of R&D work takes place in the UK, with the largest manufacturing sites located in the UK, Ireland and India.

For the year ended June 2024 Renishaw recorded sales of £691.3 million of which 95% was due to exports. The company’s largest markets are China, USA, Japan and Germany.

Renishaw is guided by its purpose: Transforming Tomorrow Together. This means working with its customers to make the products, create the materials, and develop the therapies that are going to be needed for the future.

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