

*June 2025 For immediate release*

Renishaw introduces the innovative Equator–XTM 500 dual-method gauging system.

New system extends the EquatorTM range of versatile gauges for shop floor process control, high-speed measurement and quality assurance.

Renishaw, a world leader in measuring and manufacturing systems, is pleased to announce the launch of its latest pioneering solution for shop floor process control, the Equator–X 500 dual-method system. This innovative product 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.

The Equator‑X system has been designed to address the challenges for shop floors where product variety and frequent design changes require measurement systems that are able to provide speed, flexibility and ease of use to keep pace with machining capabilities. Key benefits 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.

**Speed and flexibility**

The optional Absolute or Compare measurement modes address the demands of fast-paced manufacturing environments with different requirements.

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.

**Innovative technology and versatile software platform**

The Equator–X 500 gauge is a 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 MODUSTM IM 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.

For further information about the new Equator–X system, visit www.renishaw.com/equator-x

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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)