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**Renishaw sets new benchmark with third-generation NC4+ Blue laser tool setters at EMO Hannover 2025**

Renishaw , a global leader in high-accuracy measurement solutions, will launch its latest NC4+ Blue laser tool setter models at EMO Hannover 2025; hall 5 stand D06. Featuring third-generation technology, the new F100 and F100-10C models set a new standard for tool setting on CNC machine tools and reflect Renishaw’s commitment to advancing metrology for precision manufacturers.

With an optimised system design, NC4+ Blue F100 models achieve industry-leading repeatability of ±0.1 µm 2σ, ensuring exceptional precision for tool measurement. Tool features and defects as small as 5 µm can be detected, allowing accurate measurement of ultra-fine tools and supporting even the most delicate machining operations. By identifying the smallest tool defects before machining, the systems help ensure a good surface finish, enhancing overall part quality.

A compact footprint makes the F100 models a perfect fit for machines with tight working envelopes, allowing manufacturers to optimise space while maintaining high-performance tool setting capabilities.

Renishaw has enhanced the efficiency and optimised the air flow in the NC4+ Blue F100 models. It has reduced the tool setter’s barrier air consumption by over 50%, reducing the required energy for air compression, lowering operational costs for manufacturers. This advancement reflects Renishaw’s continued commitment to improving the sustainable performance of its products.

As part of Renishaw's NC4+ Blue laser tool setter portfolio, the F100 models are designed to deliver high-precision, high-speed non-contact tool setting and tool breakage detection. Featuring industry-first blue laser technology, all NC4+ Blue systems detect tool defects down to micron levels, aiding the production of 'right first time' parts. The NC4+ Blue MicroHole™ aperture and PassiveSeal™ mechanism protect the system in harsh environments, guaranteeing reliable performance even under challenging conditions.

“At Renishaw, we strive to develop technologies that make a meaningful difference to our customers. The new 3rd gen F100 NC4+ BLUE models exemplify this approach—combining sub-micron level precision with a compact, energy-efficient design. These systems help manufacturers achieve consistent quality while reducing operational costs, reinforcing our commitment to excellence in metrology.”

— Steve Petersen, Product Management and Marketing, Machine Tool Division

Renishaw's advanced macro software for the NC4+ Blue allows manufacturers to automate tool measurement and set-up processes. With a wide range of non-contact tool setting cycles, manufacturers can streamline operations, increase efficiency, and achieve consistently high-quality results.

Explore the latest in non-contact tool setting at EMO Hannover 2025, hall 5 stand D06, from 22nd to 26th September and speak to the Renishaw team about how they can support your manufacturing goals. For more information on the NC4+ Blue and Renishaw’s full product range of metrology products, visit www.renishaw.com.

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**Notes to editors**

**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/)