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**Renishaw showcases FORTiS™ range of next-generation enclosed linear absolute encoders at IMTS 2022**

To showcase the benefits of enclosed linear encoders to OEM machine tool builders and the service and repair sectors, global metrology specialist [Renishaw](https://www.renishaw.com/en/enclosed-optical-encoders--45273?utm_source=StoneJunction&utm_medium=HN&utm_id=REC636) will exhibit the FORTiS enclosed absolute linear encoder series at IMTS 2022. From September 12th to 17th at McCormick Place, Chicago, visitors can see the range of encoders on the Renishaw booth, 135509 in the East Building, level three.

Renishaw developed the FORTiS encoder design from industry-proven RESOLUTE™ encoder technology. The new range provides high resistance to the ingress of liquids and solid debris contaminants and features an extruded enclosure with longitudinally attached interlocking lip seals and sealed end caps. The readhead body is joined to a sealed optical unit by a blade, which travels through the lip seals along the length of the encoder. Linear axis movement causes the readhead and optics to traverse the encoder's absolute scale — which is fixed to the inside of the enclosure — without mechanical contact.

“The FORTiS enclosed absolute encoder range is the culmination of years of research and development at Renishaw,” explained Ian Eldred, Principal Mechanical Engineer at Renishaw. “It delivers superior repeatability, reduced hysteresis and improved measurement performance, due to an innovative non-contact mechanical design that doesn't require a mechanical guidance carriage. These encoders also feature integrated, specially-designed tuned mass dampers that deliver class-leading 30 g vibration resistance and push the limits of what enclosed encoders can endure. Installation of FORTiS encoders is quick and easy, helping our customers save manufacturing and servicing time.”

“Attending IMTS enables visitors to realize our vision in action and see how we are enabling the factory of the future today. Our innovative manufacturing technologies and expertise deliver on manufacturing precision, productivity, and practicality,” explained Denis Zayia, President at Renishaw Inc. “Renishaw is about to celebrate a significant milestone of supporting its customers for 50 years. As a manufacturer ourselves, we have faced the same manufacturing challenges as many of our customers and have developed strategies and products that solve problems across the industry. We look forward to sharing our latest innovations at IMTS.”

In addition to its extruded enclosure, FORTiS encoders are also protected against contamination by a further level of sealing: the readhead optical unit, which runs inside the enclosure, is itself sealed to IP67 to prevent contamination by liquids, swarf and other debris. The encoder systems have CE approval and are manufactured in-house using strict quality-controlled processes that are certified to ISO 9001:2015 and backed by a global sales and support network.

Renishaw will showcase its range of FORTiS encoders on booth 135509 in the East Building, level three. Visitors can also find Renishaw on its additive manufacturing stand on booth 433239 in the West Building, level three, and its student summit stand on booth 215321 in the North Building, level one. For more information about Renishaw encoders visit [www.renishaw.com/encoders](http://www.renishaw.com/encoders).

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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 5,000 employees located in the 36 countries where it has wholly owned subsidiary operations.

For the year ended June 2021 Renishaw recorded sales of £565.6 million of which 95% 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 recognized 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/)