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**Renishaw race to innovate and innovate for the human race at TCT Show 2017**

Global engineering and scientific company, [Renishaw](http://www.renishaw.com/en/1030.aspx), returns to [TCT Show](http://www.tctshow.com/) this year exhibiting on stand D38, in Hall 3, at the NEC, Birmingham, UK. The additive manufacturing event runs for three days this year from the 26-28 September, and is collocated with Interplas in Hall 4 and PPMA in Hall 5. Renishaw will showcase its end-to-end innovative manufacturing solutions for a range of industries, including automotive, consumer goods and healthcare.

Highlights on the stand include the RenAM 500M metal additive manufacturing system, with laser powder bed fusion technology, designed and built in-house by Renishaw for series part production; Renishaw vacuum casting; the race-winning TransFIORmers Moto2 bike and HiETA Technologies heat exchange solutions. The TransFIORmers Moto2 bike features an unconventional front suspension system with an innovative 3D printed wishbone. The weight of the component was reduced by a factor of 40 per cent whilst increasing stiffness. Renishaw AM technology was also used by HiETA to prove out and produce sufficiently thin walls for a light weighted heat exchange component for a micro turbine which acts as a range extender in an electric car.

“Additive manufacturing is already improving the automotive design process and increasing the number of lighter, stronger and improved products,” explained Stephen Crownshaw, Additive Manufacturing Business Manager at Renishaw. “In the motorsport industry, having a rapid turnaround of prototype parts can be a competitive advantage. By using metal additive manufacturing, new functional parts can be produced and tested quickly.”

The world’s first metal 3D printed bicycle frame, manufactured by Renishaw for Empire Cycles, will be exhibited alongside the Robot Bike R160 customisable titanium and carbon mountain bike frame. The R160 features titanium lugs with double lap joints which would be difficult to produce by traditional methods, but are ideally suited for manufacture on Renishaw metal AM systems.

A range of Renishaw healthcare solutions including dental and medical metal 3D printed parts will also be highlighted. Renishaw metal additive manufacturing systems are used to produce a diverse range of parts for healthcare from dental structures and craniomaxillofacial implants through to ports for neurological therapies.

For more information, please visit [www.renishaw.com/additive](http://www.renishaw.com/additive).

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**About Renishaw plc**

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 35 countries where it has wholly owned subsidiary operations.

For the year ended June 2017 Renishaw recorded sales of £536.8 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 14 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.

Renishaw is listed on the London Stock Exchange (LSE:RSW) where it is a constituent of the FTSE 250, with a current valuation of around £1.8 billion.

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