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**Renishaw and Dassault Systèmes pool expertise for the integrated AM experience**

Renishaw is collaborating with Dassault Systèmes, a world leading 3D modelling, simulation and industrial operations software provider, as part of its commitment to provide and enhance software for metal additive manufacturing (AM).

Users of Dassault Systèmes **3D**EXPERIENCE platform applications can now design, optimise, simulate and set up AM builds directly for production on Renishaw’s AM systems, which build 3D metal parts using laser powder bed fusion technology. Dedicated CATIA applications include a range of tools to develop and perform topological optimisation of parts. DELMIA is employed to generate the process from build set up to generation of the necessary laser paths (scan paths). Simulation of the entire AM build, including stress analysis and distortion prediction, is carried out in SIMULIA.

Both Renishaw and Dassault Systemes have software which is accessible to authorised third parties and this played a key role in the collaboration. It ensures the laser paths (scan paths) generated by DELMIA are optimised for Renishaw metal AM systems and produce the best quality builds. This open ecosystem ethos enables collaboration with other experts working towards the common goal of creating a streamlined AM software experience*.*

“The **3D**Experience platform coupled with QuantAM enables parts to be produced accurately from the outset, which is of tangible time and cost benefit to users. It marks the beginning of many enhancements we have in the pipeline to improve the AM user experience and streamline the front-end of the manufacturing process,’’ explained Stephen Anderson, Renishaw’s Director of Group Software.

This process control software is part of Renishaw’s wider mission to provide end-to-end solutions for innovative manufacturing and support the managed integration of AM into the production workspace.

Renishaw has a heritage of developing software programs for its metrology and healthcare products, where accurate measurement of complex parts and verification against CAD models are critical. By collaborating with Dassault Systèmes, and other experts in their fields, Renishaw seeks to foster an environment where the best software tools can be advanced for AM users.

For more information about Renishaw's additive manufacturing products, please visit [www.renishaw.com/additive](http://www.renishaw.com/additive)

For more information about Dassault Systèmes, please visit [www.3DS.com](http://www.3DS.com)

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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 2016 Renishaw recorded sales of £436.6 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 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)

**About Dassault Systèmes**

Dassault Systèmes, the **3D**EXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210, 000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

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