*Nov 2018 – for immediate release Further information: Chris Pockett, +44 1453 524133*

**Renishaw launches the QUANTiC™ rotary encoder system**

Renishaw, the world-leading metrology company, launches a rotary version of its QUANTiC™ linear optical incremental encoder featuring exceptionally wide installation and operating tolerances, in addition to enhanced diagnostics compatibility.

QUANTiC rotary encoders use a 40 µm-pitch ring scale called RESM40 which is available in a wide range of sizes (Ø52 mm to Ø550 mm). Customers can choose between either taper mount (A section) rings for high accuracy applications or thin (B section) rings for low inertia applications. The encoder operates at rotational axis speeds of up to 8,800 rpm and angular resolutions to 0.04 arc seconds.

This new encoder system addresses applications with wide through-bore requirements. It provides enhanced ease of set-up through a combination of wider tolerances and an Advanced Diagnostic Tool (ADT) for remote calibration and in-depth diagnostics.

QUANTiC readheads incorporate Renishaw's well-established filtering optics that averages the contributions from many scale periods and effectively filters out non-periodic features such as dirt. Measurement signals are further enhanced by a range of electronic signal processing algorithms such as Auto Gain Control (AGC), Auto Offset Control (AOC) and Auto Balance Control (ABC). QUANTiC encoders also feature a third layer of signal filtering from a new detector design, which helps to eliminate non-harmonic signal frequencies that can occur due to contamination on the scale. These signal conditioning features combine to ensure low Sub-Divisional Error (SDE) and minimal signal variation over contamination.

QUANTiC encoders will help to increase the throughput of high-volume production lines and offer potentially significant time and cost savings for OEM customers. The QUANTiC family has CE approval and is manufactured by Renishaw, using strict quality-controlled processes that are certified to ISO 9001:2008. Like all Renishaw encoders, it is backed by a dedicated global sales and support network.

Renishaw's QUANTiC encoder family and other leading metrology products will be exhibited on stand 231 in Hall 4A at SPS IPC Drives 2018 in Nuremburg, Germany, from Tuesday 27th November–Thursday 29th November. Please come and visit us, Renishaw staff will be on stand to answer any questions about motion control and its challenges.

For further information on QUANTiC encoders, visit [www.renishaw.com/quantic](http://www.renishaw.com/quantic)

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