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**Renishaw launches innovative CENTRUM™ metal rotary scale for ATOM DX™ encoder series**

Renishaw, the global metrology company, has launched an innovative metal scale disc for its ATOM DX encoder series: the CENTRUM™ CSF40 scale.

After an intensive research and development effort at Renishaw, rotary RCDM glass scales are now joined by CENTRUM stainless steel self-centring discs.

CENTRUM CSF40 scale discs are quick and easy to install ‘right first time’, due to their innovative mounting features that automatically centre the scale when pushed onto an appropriately sized shaft. These alignment features enable fast installation with highly consistent installed accuracy.

CENTRUM scale discs are substantially quicker and easier to install due to specially designed flexures that act like springs to align the disc to the shaft. Mounting of the CENTRUM disc is completed by the addition of three bolts that are tightened to pre-set torque values ꟷ no additional gauges or set-up devices are required.

CENTRUM discs are made from robust stainless steel, which is resilient and easy to clean.

With 40-micron pitch incremental graduations, CSF40 discs are available in a range of sizes with external diameters from 38.4 mm to 120 mm. An ATOM™ encoder variant compatible with CENTRUM scale discs will also be launched in due course.

Ben Carruthers-Watt, Senior Design Engineer for CENTRUM, explains the features and benefits of CENTRUM CSF40 scales:

“Our new stainless-steel disc scale, CENTRUM CSF40, incorporates three pairs of optimised alignment flexures to enhance the speed and ease of rotary encoder scale installation. The CSF40 disc is self-aligning and eliminates the need for manual alignment of the encoder disc, which significantly minimises installation time and simplifies the assembly process. In this first offering, we have incorporated mounting holes so the disc can be bolted directly onto the machine shaft, avoiding a time-consuming gluing and curing process. The disc design is optimised to ensure the best performance in the smallest possible package, which combines with the ATOM DX readhead to provide a compact encoder system. In the near future, we have plans to expand the CENTRUM range to include other mounting options such as adhesive or a mechanical clamp, which will provide even more flexibility to meet the design needs of our customers.”

Renishaw CENTRUM CSF40 encoder scales are manufactured in-house using strict quality-controlled processes that are certified to ISO 9001:2015. Renishaw encoder systems are backed by a global sales and support network of subsidiary companies in 36 countries.

CENTRUM CSF40 discs will be officially launched at SPS in Nuremberg, Germany, from November 8th -10th. Delegates are invited to talk with Renishaw sales and technical staff on stand 231 in Hall 4A.

For more information about CENTRUM discs, please visit: [www.renishaw.com/centrum](http://www.renishaw.com/centrum)

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