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**New CENTRUM™ scale option for clamped installations on shafts**

Renishaw, a global metrology company, now offers customers the mounting option of fixing its CENTRUM™ rotary (angle) encoder scales with a mechanical clamp. This is in addition to the separate option of fixing with standard M3 bolts.

CENTRUM CSF40 scale is an innovative stainless steel disc for Renishaw’s ATOM DX™ encoder series. The scale design enables quick and easy installation and flexible mounting options.

The ATOM DX encoder series is Renishaw's smallest incremental optical encoder with digital output direct from the readhead. It provides positional feedback, onboard interpolation and filtering optics all in a miniature package. ATOM DX encoders also can be used with the optional Advanced Diagnostic Tool ADTi 100 and ADT View software for in field diagnostics, troubleshooting and to help optimize the encoder’s set-up in demanding applications.

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.

The built-in alignment flexures are used to locate the disc both during scale manufacture and subsequent disc mounting, ensuring that the scale marks are concentrically located about the mounting shaft.

The new scale mounting option enables fixing with a customer-designed clamp and hub plate. CENTRUM discs feature 40-micron pitch scale graduation markings and are available in a wide range of external diameters and through-hole sizes.

CENTRUM discs are optimised to ensure the best performance in the smallest possible package while still offering customers ample design flexibility. Combined with the ATOM DX readhead, this provides a powerful and compact encoder solution.

Ben Carruthers-Watt, Senior Design Engineer for CENTRUM discs, explains the advantages of clamped CENTRUM CSF40 scales:

“Following the release of our CENTRUM CSF40 self-centring encoder disc scales, we are now extending the product range to include the option to mount the disc using mechanical clamping. This allows a larger through-hole which provides more flexibility to design an encoder system to integrate into a customer's machine design. The mechanically mounted options of the bolted and clamped variants of the CENTRUM disc provide a flexible encoder disc scale that can be quickly and easily installed without the complexity traditionally associated with adhesive mounted scales.”

Renishaw CENTRUM CSF40 encoder scales and ATOM DX encoders 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.

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