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Renishaw announces enhanced performance from the VIONiC™ encoder series

Renishaw, a leading engineering and scientific technology company, announces the performance enhancement of the VIONiC encoder product range. The VIONiC encoder is now available in resolutions down to 2.5 nm with enhanced Sub-Divisional error (SDE) across the product range.

VIONiC encoders integrate Renishaw's filtering optics design and interpolation technology to create a high performance, super-compact, digital all-in-one incremental open optical encoder. Customers can choose resolutions ranging from 5 µm down to 2.5 nm and from a wide range of configurations to optimise the performance of their motion control systems. VIONiC series encoders are quick and simple to install with wide set-up tolerances and automatic calibration. The VIONiC encoder’s dynamic signal processing gives reliable position output with SDE of typically <±15 nm**\*** to help realise superior motion control performance.

Low SDE directly contributes to low velocity ripple which is important for constant velocity applications, such as laser scanning measurement systems. The VIONiC encoder’s versatile interpolation chip can achieve 8 000 × interpolation that produces 2.5 nm resolution directly out of the readhead and is ideal for high precision applications. VIONiC encoders work with a range both linear and rotary scales.

The VIONiC series is also compatible with an optional Advanced Diagnostic Tool (ADTi-100) that provides comprehensive encoder diagnostics. This can be used for challenging installations and in-field fault finding. It includes: remote calibration functions, signal optimisation over axis length, readhead pitch indication, limit and reference mark indicators; DRO and Lissajous outputs.

The VIONiC encoder family has CE approval and is manufactured by Renishaw, using strict quality controlled processes that are certified to ISO 9001:2015, and, like all Renishaw encoders, is backed by a truly responsive global sales and support network.

**\*** *<±10 nm SDE can be achieved with optimised set-up. Please contact your local Renishaw representative for more details.*

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

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