

The need for speed

Renishaw is focusing on speed of manufacture at EMO 2007, with a range of new products that will help businesses to reduce process times whilst maintaining quality in a wide range of machining and measurement applications.



This contribution to speed is perfectly demonstrated by the reigning Olympic women's two-man bobsleigh champion, Sandra Kiriasis. Her team has benefited from Renishaw's latest measurement technologies in the manufacture of a blade solution which has allowed Team Kiriasis to dominate its sport during the 2006-2007 season. The winning bobsleigh will be shown on Renishaw's stand throughout EMO 2007, and Sandra will be meeting visitors there on the first day of the exhibition.

New products being demonstrated will include the Renishaw XL-80, a compact laser interferometer measurement system which combines portability,

performance and ease of use, whilst for CMM users, the revolutionary REVO™ five-axis measuring head and probe system can improve inspection throughput levels by up to 900% on machines previously fitted with three-axis scanning systems.



XL-80 laser interferometer measuring system

For machine tool process control applications, the Renishaw TRS2 tool recognition system takes typically less than one second to detect broken tools, whilst for users looking to reduce inspection times by measuring complex 3D part geometries on all sizes of machining centres, Renishaw's new RMP600 compact, high accuracy touch probe with radio signal transmission, is a powerful solution.



TRS2 tool recognition system

Also being introduced at EMO 2007 is Renishaw's twin-probe system which uses a single optical receiver for tool setting probes together with a spindle-mounted touch probe for component inspection, offering fast integration. This will comprise the OMP40-2 touch probe and Renishaw OTS cable-less tool setter, which is

particularly suitable for machines with twin pallets or rotary tables.



Twin probe system

For designers within the machine tool industry, Renishaw's SiGNUM™ non-contact RESM angle encoder has a large through-hole making it ideal for high-speed feedback on machine tool rotary axes, and is now available with FANUC serial communications. For applications that require the highest accuracy, the REXM angle encoder offers new levels of angular metrology, with better than ± 1 arc second total installed accuracy, zero coupling losses and exceptional repeatability.

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