

GLOBAL SOLUTIONS

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Blue skies ahead for Rolls-Royce

The venerable name “Rolls-Royce” has come to symbolize quality, craftsmanship, and performance. This is particularly true in the world of aerospace gears. Rolls-Royce Gear Systems has been supplying high quality performance gearing to the aerospace industry since the early 1940s. Their Park City, Utah facility supports the development and manufacture of precision high-speed gears for aerospace engines and mechanical components.

It's not surprising that this aerospace gear innovator is now partnering with Gleason to be one of the first in the world to fully exploit the benefits of

Gleason's new GEMS (Gleason Expert Manufacturing System) technology. GEMS is helping shave months in development time, trial and error and inherent waste from Rolls-Royce's bevel gear design, manufacturing and inspection processes, and helping ensure that Rolls-Royce's gears continue to be among the finest in the industry.

GEMS is a collection of software programs that work

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together over a closed-loop network. This technology allows Gleason's Windows-based gear design software (CAGE4™, G-AGE4™ and Phoenix® Summary Software) to communicate and exchange information seamlessly in a closed-loop network with Gleason® gear making and inspection machines. In the case of Rolls-Royce Gear, this includes three Gleason Phoenix® Grinders and a Gleason-Mahr GMX4 Universal Gear Inspection

Machine, all connected together via Local Area Network (LAN). As a result of GEMS, Rolls-Royce Gear has begun to realize a host of benefits at every stage of the design, manufacture and inspection process that, according to Rolls-Royce Spiral

Bevel Gear Project Leader Nigel Ashcroft, is truly remarkable.

“By using the Gleason GEMS system, our overall design-to-process confidence has never been higher,” Mr. Ashcroft says. “We've seen up to an 80% reduction in development times and improved our ability to hold the process over a production run.”



(Visit www.gleason.com for a more complete description of the GEMS system in use at Rolls-Royce Gear.)