Press release

SKF advances Insight bearing technology through collaboration with Sentea

SKF Core, a new integrated hardware platform, simplifies deployment of SKF Insight bearings, powered by fiber-optic sensing technology, and expands bearing intelligence applications. This, and other SKF solutions, will be showcased at AMB 2026 in Stuttgart.

Gothenburg, 8 September 2026: SKF has selected fiber-optic sensing specialist Sentea as its partner for the development and production of SKF Core, a new integrated hardware platform that supports the next generation of SKF Insight bearings. The collaboration represents an important step in the commercialization and scaling of SKF's pioneering bearing intelligence technology, helping customers improve productivity, reliability and machine performance through deeper insight into machine operating conditions.

SKF Insight bearings provide machine builders and industrial operators with direct visibility into operating conditions such as loads, speeds, temperatures and vibrations, beyond the limits of conventional monitoring technologies. By transforming data from inside the bearing into actionable intelligence, the solution helps customers optimize machine performance, improve process stability and identify potential issues before they impact production.

The latest generation of SKF Insight bearings expand these capabilities with new insights into lubrication conditions, contact pressures and bearing health. Together, these capabilities support a shift from reactive maintenance towards more proactive and predictive maintenance, optimization, protection and control of critical equipment, supporting customers to design the next generation machining center.

"Customers are increasingly looking for ways to improve productivity, reduce unplanned downtime and maximize the performance of their equipment. SKF Insight bearings give them a new level of visibility into what is happening inside the machine, enabling better decisions and greater confidence in operation", says Mark Verbakel, Head of SKF Insight bearings.

The new SKF Core simplifies deployment by integrating sensing, processing and communication capabilities into a single industrial unit. This reduces system complexity and makes it easier for customers to adopt advanced machine intelligence solutions at scale.

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“Together with SKF, we are helping bring advanced fiber-optic sensing technology into industrial applications where improved reliability, efficiency, and predictive maintenance capabilities can create significant customer value”, says Karsten Verhaegen, CEO of Sentea. “Our technology enables fiber-optic sensing to be deployed at scale, and the collaboration with SKF closely aligns with our ambition to bring fibre-optic sensing everywhere."

More information about SKF Insight bearings could be found here:
https://www.skf.com/group/products/rolling-bearings/sensor-bearings-units/skf-insight-bearings

SKF at AMB 2026 in Stuttgart, Germany
The SKF Core and next-generation SKF Insight bearing solution will be launched at AMB Stuttgart on 15-19 September. At AMB, visitors to the SKF booth (6C71) will be able to see the complete solution demonstrated with live bearing-condition data.

Other SKF products and solutions showcased at AMB Stuttgart include:

New Performance series of super-precision bearings
SKF will introduce the new Performance series of super-precision angular contact ball bearings for machine tool spindles and other demanding applications. It offers increased robustness, improved surface fatigue performance and enhanced thermal stability, helping machine tool manufacturers and end users achieve more reliable and predictable performance.

New Progressive Lubrication Pump (PLP)
SKF’s new Progressive Lubrication Pump (PLP) is an automatic lubrication solution designed to help customers increase machine reliability, reduce maintenance effort and lower total cost of ownership. Built on SKF and Lincoln lubrication expertise, the solution supports improved equipment availability through reliable lubrication, simplified service and enhanced system monitoring capabilities.

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Since 1907, SKF has been making some of the world’s most innovative bearings, seals, lubrication systems, condition monitoring solutions, and services to reduce friction. Less friction means more energy saved and by reducing it, we make industry smarter, more competitive, and more energy efficient, building a more sustainable future where we can all do more with less. SKF is represented in approximately 130 countries and has around 17,000 distributor locations worldwide. Annual sales in 2025 were SEK 91,583 million and the number of employees was 37,271. www.skf.com

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