

SPS 2023

AI for industry: Schaeffler and Siemens bring Industrial Copilot to shop floor

- **Siemens and Schaeffler integrate generative AI-powered assistant in a production machine – world premiere at SPS trade show**
- **Industrial Copilot will optimize engineering and support operations – and it's easy, fast and efficient**
- **Industrial Copilot is key to addressing the qualified workforce shortage**

Technology company Siemens is harnessing the power of generative artificial intelligence (AI) to help industrial companies drive innovation and efficiency across the design, engineering, manufacturing and operational lifecycle of products. At the Smart Production Solutions (SPS) trade show in Nuremberg, Siemens and the motion technology company Schaeffler are showcasing a production machine that is augmented with the Industrial Copilot for the first time. The two companies are demonstrating how the Industrial Copilot can augment Siemens' industrial automation engineering and operation solutions.

Generating automation code with natural language input: Making the workforce more efficient

To support engineers with various automation tasks, the AI-powered assistant is connected to Siemens' engineering framework Totally Integrated Automation (TIA) Portal via the open API TIA Portal Openness. The Industrial Copilot helps Schaeffler's automation engineers to generate code faster for programmable logic controllers (PLC), the devices that control most machines throughout the world's factories. Engineering teams can significantly reduce time, effort, and the probability of errors by generating PLC code through natural language inputs.

With industrial companies speeding up their automation and digitalization journey, there is an increasing demand for experienced automation engineers to implement these projects. The Siemens Industrial Copilot helps automate repetitive tasks, freeing up engineering resources for higher-value work. It will also empower less-experienced shop-floor employees to grow into engineering roles.

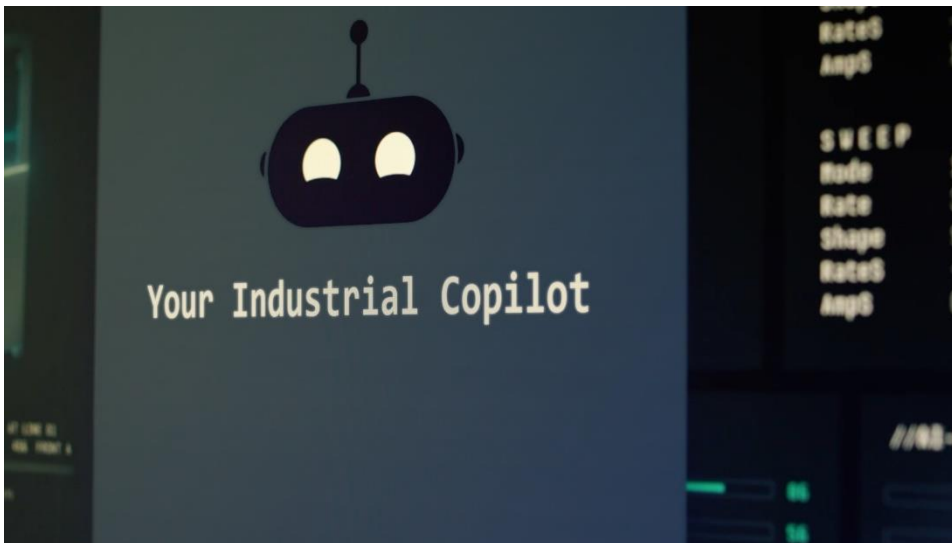
Schaeffler CEO Klaus Rosenfeld said: “Driving the digital transformation is a top priority for Schaeffler and it plays a key role in our company strategy. Generative AI solutions like the Industrial Copilot will speed-up this journey and empower our employees. We partner with Siemens because we are both technology companies, sharing the same vision: Transform the way we operate.”

Finding and fixing errors: Reducing machine downtime

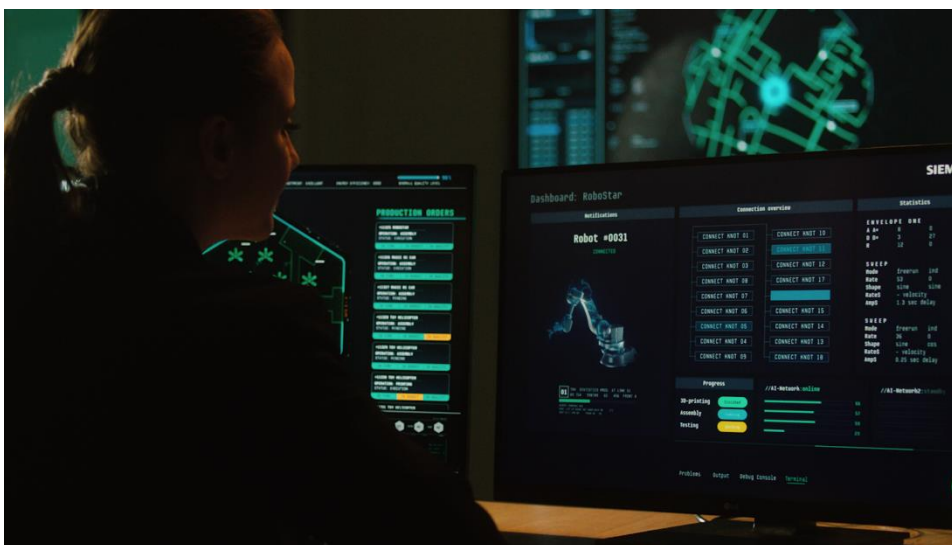
Siemens Industrial Copilot has access to all relevant documentation, guidelines and manuals to assist shopfloor workers with identifying possible errors. These capabilities enable maintenance teams to identify errors and generate step-by-step solutions more quickly. This will help to significantly reduce machine downtime, make industrial companies more efficient and thus support sustainability efforts.

“This is the beginning of a new era: In the past, we had to speak to machines in their language. With the Siemens Industrial Copilot, we can speak to machines in our language,” said Cedrik Neike, Member of the Managing Board of Siemens AG and CEO Digital Industries. “In few years, AI will be omnipresent in industry. Siemens and Schaeffler are frontrunners, joining forces to make Generative AI industrial grade.”

Overall, the generative AI-powered assistant will assist in optimizing the engineering and operation lifecycle. From the planning phase to validation, generating unit tests of function blocks, monitoring to optimizing machine performance, the Industrial Copilot will make human-machine interactions faster, more intuitive, and more efficient.



At SPS 2023, Siemens and Schaeffler introduce the Siemens Industrial Copilot, automating engineering and operation tasks on a production machine.



Industrial Copilot - Generating PLC code with natural language input: Making the workforce more efficient.



Industrial Copilot - Finding and fixing errors: Reducing machine downtime

This press release can be found at <https://sie.ag/xzc63>

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Siemens Digital Industries (DI) is a leading innovator in automation and digitalization. In close cooperation with its partners and customers, DI is the driving force for the digital transformation in the process and manufacturing industries. With its Digital Enterprise portfolio, Siemens provides companies of all sizes with all the necessary products, along with consistent solutions and services for the integration and digitalization of the entire value chain. Optimized for the specific requirements of individual industries, this unique portfolio enables customers to enhance their productivity and flexibility. DI continuously extends its portfolio to include innovations and the integration of future-oriented technologies. Siemens Digital Industries, with its headquarters in Nuremberg, has a workforce of around 72,000 people worldwide.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company employed around 311,000 people worldwide.

Further information is available on the Internet at www.siemens.com.

The **Schaeffler Group** has been driving forward groundbreaking inventions and developments in the field of motion technology for over 75 years. With innovative technologies, products, and services for electric mobility, CO₂-efficient drives, chassis solutions, Industry 4.0, digitalization, and renewable energies, the company is a reliable partner for making motion more efficient, intelligent, and sustainable – over the entire life cycle. The motion technology company manufactures high-precision components and systems for drive train and chassis applications as well as rolling and plain bearing solutions for a large number of industrial applications. The Schaeffler Group generated sales of EUR 15.8 billion in 2022. With around 84,000 employees, the Schaeffler Group is one of the world's largest family-owned companies. With more than 1,250 patent applications in 2022, Schaeffler is Germany's fourth most innovative company according to the DPMA (German Patent and Trademark Office). More information at www.schaeffler.com