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Siemens introduces next generation of Sinamics G drives

- **New Sinamics G series creates a seamless platform for continuous-motion applications**
- **Security by Design helps machine builders address increasing cybersecurity requirements**
- **Integrated safety concept up to Safety Integrity Level 3 (SIL3) provides a high level of functional safety**
- **Digitally integrated drives simplify engineering, commissioning and operation**

Machine builders and plant operators today face the challenge of improving productivity, energy efficiency, cybersecurity and flexibility simultaneously. At the same time, they must shorten development times, manage product variants and reduce the effort required for engineering, commissioning and operation. The next generation of Sinamics G drives is designed to address these requirements: with it, Siemens introduces a unified drive portfolio for continuous-motion applications. The new platform covers a range of power and application requirements while offering a consistent approach to engineering and operation.

The new generation is built around three core principles: Security by Design, integrated safety functions and digitalization for greater transparency and intelligent maintenance management.

With its scalable and seamless drive platform, Siemens enables machine builders to standardize automation solutions more easily while preparing for future requirements. Cybersecurity has been an integral part of the development from the outset. All new generation drives will be made EU Cyber Resilience Act (CRA)-ready and provide

integrated cybersecurity capabilities up to Security Level Capability 2 (SL-C 2) as defined in IEC 62443-4-2.

Integrated safety functions up to Safety Integrity Level 3 (SIL3) provide a high level of functional safety for the protection of people, machines and plants. At the same time, the new generation combines digital integration with ease of use. Seamless integration into the TIA Portal, an integrated web server and a unified engineering and operating concept simplify selection, engineering, commissioning, diagnostics and service. Users benefit from shorter engineering times, reduced training requirements and faster standardization across different machine platforms. Through the Ethernet-based OPC UA communication standard, drive and operational data can be utilized efficiently for asset and energy management, condition monitoring and predictive maintenance applications.

With the newly introduced Sinamics G200, G210C, G210 and G210X, Siemens completes the next generation of its Sinamics G portfolio around the flexible high-end drive Sinamics G220, first introduced in 2023. The Sinamics G200 addresses general-purpose industrial applications, while the Sinamics G210C has been specifically designed for compact machines with high requirements for power density and overload capability. As a versatile general-purpose drive, the Sinamics G210 covers a broad range of moving, positioning and processing applications. The Sinamics G210X extends this flexibility with dedicated functions for pump, fan, compressor and other infrastructure applications. Together, these drives form a unified and scalable portfolio for continuous-motion applications based on a common technology platform.



The new Sinamics G series creates a seamless platform for continuous-motion applications

You can find this press release and press pictures at the following link:

<https://press.siemens.com/global/en/pressrelease/siemens-introduces-next-generation-sinamics-g-drives>

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Contact for journalists

Katharina Rebbereh

Phone: +49 172 841 35 39

E-mail: katharina.rebbereh@siemens.com

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