SIEMENS

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Siemens advances its automation portfolio toward AI-powered, autonomous production

- **Goal-based automation: Physical AI enables autonomous unpacking of incoming goods in Electronics Factory Erlangen**
- **New Industrial AI solutions: Autonomous Production Planner in Intelligence Center X, Eigen Engineering Agent for Process Industries, closed-loop AI**
- **Connected Automation: New drive systems and DC switching technology**
- **Cybersecurity as the foundation: supporting customers in preparing for the EU Cyber Resilience Act**

Siemens is bringing Industrial AI into every phase of automation, from AI agents in planning and engineering to Physical AI on the shop floor. At SPS 2026, the company shows how this enables goal-based automation: manufacturers define what they want to achieve, and Industrial AI determines how to get there or carries out the task through AI agents. One example is Siemens' own Electronics Factory Erlangen, where an AI-based robot application for autonomously unpacking incoming goods is under development. Standardized device data and cybersecurity underpin all of it.

"The next productivity leap will come from automating tasks that were impossible to automate before," said Rainer Brehm, President of Automation at Siemens. “That’s why we’re taking decisive steps toward AI-powered, autonomous production, with agentic and Physical AI enhancing our leading automation portfolio. With more Industrial AI in production, also cybersecurity becomes even more important. Our customers can rely on our continued commitment to cybersecurity and regulatory compliance, backed by almost 40 years of experience in industrial cybersecurity.”

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Physical AI in practice: autonomous unpacking of incoming goods

In electronics manufacturing, incoming deliveries vary so much in packaging type and size that fixed robot programs cannot handle them, and unpacking is still largely done by hand. At the Electronics Factory in Erlangen, Siemens is developing an AI-based solution in which cameras capture the environment in real time, allowing AI-based robot foundation models to interpret the situation and autonomously determine the required steps. The robot opens cartons and removes component reels for further processing. Siemens provides automation, control systems, industrial PCs, software orchestration, and the domain expertise gained from its own manufacturing facilities.

Planning: AI agents create the production schedule

In production planning, Siemens is introducing the Autonomous Production Planner as part of Intelligence Center X, its industrial AI orchestration software. Several AI agents work together to create production schedules and optimize them automatically against defined key performance indicators. Each schedule is validated in a physics-based digital twin before it is released to production. Siemens expects this to reduce manual planning effort by 70 percent and lower costs by up to 20 percent.

Engineering: Eigen Engineering Agent with new capabilities

The AI-powered Eigen Engineering Agent is connected to the engineering software TIA Portal and now supports engineers by adapting automation code: The agent can verify code through simulation and will be able to create safety configurations, among other new functions. The Eigen Engineering Agent is now also available for process industries. The agent connects to SIMATIC PCS 7, Siemens' distributed control system. It analyzes existing control logic and checks or creates Continuous Function Charts (CFCs) and creates control modules automatically from engineering data. This helps companies speed up engineering and scale their engineering know-how across projects.

For automation engineering, Siemens continues to enhance its existing automation software: With the new TIA Portal V21.1, customers can now buy features instead of versions, which means time-consuming project updates are no longer necessary with the V21 version line. Functional enhancements include multicore support in the PLC program for SIMATIC S7-1500 and extended SIMATIC Source Documents that now

also cover hardware configuration and can be processed by AI systems. For customers, this means higher performance and simplified engineering.

With SIMATIC AX Motion Control Engineering, engineers can now manage automation projects that include motion control in one text-based environment, supported by PLCopen and direct Git integration. This lowers complexity and accelerates development times. An important step for a software-defined automation.

Operations: bringing AI into the control loop

During production, the Industrial AI Suite brings AI directly into automation. AI models running on Industrial Edge can be connected to SIMATIC S7 controllers via PROFINET, enabling real-time AI inference as part of machine automation. This opens up new use cases such as AI-based motion control. Production data can also be used to retrain, validate, and redeploy AI models on-premises, creating a closed AI loop from deployment and operation to continuous improvement.

Connected Automation: Controllers, drive systems, and switching technology

The SIMATIC S7-1200 G2 basic controller strengthens motion and performance with up to 32-axis motion control, while the advanced SIMATIC S7-1500 controller offers higher system performance and extended connectivity. In drive technology, Siemens is extending the next generation of Sinamics G frequency converters with four new drives based on a common, scalable platform with standardized device data and Security by Design. The new Sinamics E210 converter and Simotics E-1EE1 servo motors form an integrated 24V and 48V drive system for battery-powered applications such as autonomous mobile robots (AMRs), reducing integration effort through coordinated hardware and software. With SIRIUS 3QC1, Siemens is presenting the world's first semiconductor-based heavy duty direct current contactor, designed for up to 1,500 V and 600 A.

Standardized Data: a common digital language for AI agents

Standardized, machine-readable device data provides an important foundation for AI-enabled and increasingly agentic workflows. Siemens is now making standardized Asset Administration Shell (AAS) data available for more than 120,000 hardware

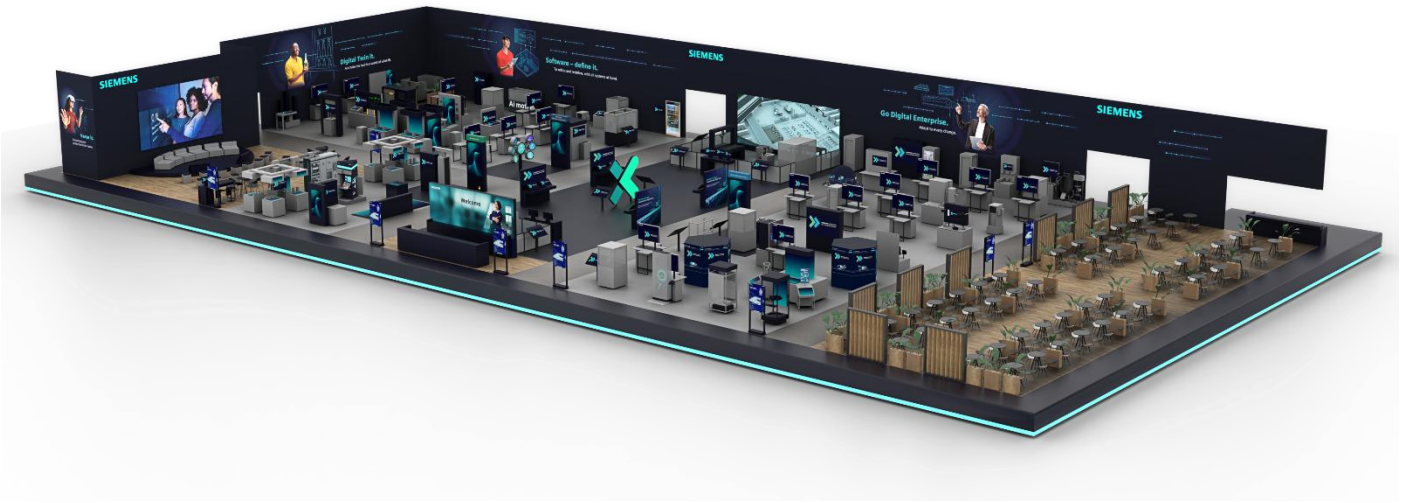
products, enabling software tools to access and process product information directly and supporting seamless digital engineering and Digital Twin workflows.

Cybersecurity as the foundation

AI in production depends on plants that remain secure. Siemens builds on almost 40 years of experience in industrial cybersecurity, with an approach that covers the entire lifecycle of production, from design and engineering through operation and service. The company also uses AI to enhance cybersecurity. Siemens is progressively preparing relevant products in its industrial portfolio for the applicable requirements of the EU Cyber Resilience Act and supporting machine builders in preparing their machines for the CRA requirements applicable from December 11, 2027.



Physical AI: Siemens is developing an AI-based robot application that autonomously unpacks incoming goods in its Electronics Factory Erlangen



At SPS 2026, Siemens displays its automation portfolio for AI-powered, autonomous production on 2,600 m² in hall 11

This press release and press pictures are available at:
https://press.siemens.com/global/en/pressrelease/siemens-advances-its-automation-portfolio-toward-ai-powered-autonomous-production

For more information on Siemens at SPS 2026 please see
http://www.siemens.com/press/sps26

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Siemens is the technology company leading Industrial AI. By combining the real and digital worlds, Siemens enables customers across industries, from manufacturing to infrastructure and transportation, to scale AI safely, reliably and with real impact.
With deep domain know-how, industrial data and a full technology stack spanning electrification, automation, digitalization and AI, Siemens redefines how real-world systems are designed, built and operated. This helps customers become more competitive, resilient and sustainable.
In fiscal 2026, Siemens generated revenue of €83.4 billion and net income of €9.5 billion, with around 319,000 people employed worldwide as of September 30, 2026.
Siemens also holds a majority stake in the publicly listed medical technology company Siemens Healthineers. More information: www.siemens.com.