

[01] Hannover Messe 2026: Bosch focuses on the interplay between humans and AI

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Hannover Messe 2026: Bosch focuses on the interplay between humans and AI

Industrial AI for greater competitiveness

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- ▶ Tanja Rueckert: “Artificial intelligence is the decisive lever for future-proofing German and European industry in the face of global competition.”
- ▶ Agentic AI in manufacturing enables savings of up to 30 percent and increases competitiveness.
- ▶ AI network any.site speeds up maintenance and servicing with “knowledge assistants.”
- ▶ According to the Bosch Tech Compass, 70 percent see AI as the dominant technology of the future.

Stuttgart and Hannover, Germany – At Hannover Messe 2026, Bosch will be demonstrating how artificial intelligence (AI) is becoming the driving force behind profitability and competitiveness in the manufacturing industry. The focus is on tried-and-tested AI applications that increase efficiency and quality and make the vision of the intelligent, resilient factory a reality. “Artificial intelligence is the decisive lever for future-proofing German and European industry in the face of global competition. It’s no longer a question of ‘if,’ but rather ‘how’ and especially how quickly AI gets used for this purpose,” explains Tanja Rueckert, member of the Bosch board of management and responsible for the Industrial Technology business sector.

The focus is on people: AI as an intelligent partner

AI is used as an intelligent assistant for skilled workers in manufacturing. For example, voice assistants make it easier to input data and can provide direct instructions for troubleshooting in the event of a fault. At the same time, the technology offers a pioneering solution for the demographic change that industry faces in the years ahead: AI systems can record and structure seasoned experts’ invaluable knowledge before they retire, thus ensuring it can be passed on to the next generation of workers. This makes experience-based knowledge scalable and retains it for the company.

Industry expertise meets IT expertise

Bosch Connected Industry is addressing these industry requirements and expanding its portfolio around its agentic AI solution, [Manufacturing Co-Intelligence®](#). With the help of Microsoft technologies, agentic AI offers new opportunities to increase production efficiency. At Hannover Messe 2026, Bosch will be demonstrating how its expertise in industrial data and AI complements Microsoft's IT infrastructure and platform expertise. Application scenarios built on Microsoft Azure will be presented for the first time this year, including AI-supported condition monitoring and connectivity for machine control systems (OT systems) with Bosch Rexroth's ctrlX AUTOMATION.

Delivering efficiency through multi-agent systems and people

The agentic AI used in Manufacturing Co-Intelligence® ensures that problems arising in the production process, e.g. for threaded connections, are detected at an early stage and downtimes are minimized. Even a single agentic use case in a plant can achieve annual savings of almost a million euros. The potential grows with the scope of use: customers who roll out Manufacturing Co-Intelligence® more broadly can achieve productivity gains of 5–15 percent, cut costs by 10–30 percent in specific areas, and solve operational problems up to 50 percent faster.

Agentic flows improve interactions in manufacturing

Agentic flows allow individual agents, tools, and data to be orchestrated into end-to-end workflows. One example is the combination of two agents, Shopfloor and Smart Maintenance: as a specialized team in the multi-agent system, the AI supports humans during planned and unplanned maintenance measures. From fault analysis to guided and optimized servicing instructions and independent documentation, the AI is always at workers' side and ensures a major reduction in downtime. This also has advantages for future rounds of maintenance: since the data is processed in a structured manner, the AI can immediately suggest possible causes – even drawing on error patterns that occur in other plants around the world belonging to the respective network.

AI on the rise: Bosch Tech Compass shows growing importance

The [Bosch Tech Compass](#) confirms the growing importance of AI. Fully 70 percent of survey participants worldwide now consider AI to be the dominant technology of the future – a huge increase over just 41 percent in comparison to 2023. This clearly sets AI apart from all other technologies; its perceived relevance has almost doubled in just three years. A recent Bitkom study shows that 42 percent of industrial enterprises are already using AI in manufacturing and 82 percent consider it to be crucial for their future competitiveness. “Our solutions make AI tangible and prove that it has a direct impact on profitability. Bosch gives companies the means to make their manufacturing not only more efficient, but also more resilient and sustainable,” Rueckert says.

Network for industrial AI “knowledge assistants”

This is supported by the work of any.site, a cross-company network for industrial AI that Bosch Rexroth will be developing together with ServiceNow and the Next Level Mittelstand initiative. The platform connects machinery manufacturers, service providers, and manufacturing teams via AI-supported “knowledge assistants,” making it easier for experts to search for information around the clock during commissioning and maintenance. The network surrounding any.site’s range of solutions and infrastructure is constantly being expanded. “With any.site, AI becomes the defining link in production. It makes experts’ and manufacturers’ know-how accessible at any time and thus raises efficiency and collaboration to a new level,” Rueckert says. It’s not just users in manufacturing who stand to benefit from any.site, but also machinery manufacturers. In the future, they will be able to monetize their product knowledge by bringing their expertise to the shopfloor via AI-supported knowledge bots. By combining machinery manufacturers’ documentation, service data records, and shopfloor data, these bots can provide the machine’s operators with validated instructions, troubleshooting steps, and spare parts guidance.

Press photos and infographics are available on the Bosch Media Service at www.bosch-press.com.

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 413,000 associates worldwide (as of December 31, 2025). The company generated sales of 91 billion euros in 2025. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, digitalization, electrification, and artificial intelligence. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in hardware, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture intelligent, user-friendly, and sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 500 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. Bosch employs some 82,000 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch-press.com, www.bosch.com.

**Hannover Messe 2026: Here are Bosch's highlights
for the industrial sector**
Agentic AI for more efficiency in manufacturing

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- ▶ Bosch establishes new approach to operational excellence in manufacturing.
- ▶ New Bosch pellet printer enables prototypes using material from large-scale production.
- ▶ Bosch presents scalable automation solutions for battery recycling.

Stuttgart / Hannover, Germany – In times of increasing complexity and an aging society, the two key factors for industrial success are resilience and competitiveness. But what do specific solutions to these abstract challenges look like? At Hannover Messe 2026, Bosch is providing some clear answers and showing how an intelligent combination of people, software, and artificial intelligence (AI) doesn't just improve manufacturing, but transforms it from the ground up. Visitors will also discover Bosch's technological highlights all around the trade fair – from innovative approaches for recycling vehicle batteries to revolutionary 3D printers and scalable solutions for increasing production. Bosch Connected Industry will be represented in hall 14, booth J17, while Bosch Rexroth will be showcasing its industrial technology solutions in hall 26, booth E69.

Bosch is making factories fit for the future

Bosch is using the example of shopfloor collaboration to show how agentic AI can become a real partner for people.

Technology as a partner: In response to current challenges such as the shortage of skilled workers, increasing complexity, and cost pressure, Bosch is pursuing a new approach to intelligent collaboration between humans, machines, and digital systems: Manufacturing Co-Intelligence®. The concept starts where today's process chains still break – because information is stored in different systems; planning, production, quality, and maintenance rarely work on the same database; and people manually compensate for the things that the systems don't map in an integrated manner. Manufacturing Co-Intelligence® connects these

systems, puts data in the right context, and creates a common operational view – both on the shopfloor and along the entire product lifecycle from development to operation. Today, each time a maintenance team has to be deployed at night or on the weekend to deal with a machine breakdown serves as an example of the change that end-to-end agentic AI can bring. By monitoring processes across the board and detecting the smallest deviations, it can initiate solutions that avert a major breakdown. If, in spite of this, a fault does still occur, then the worker responsible can communicate via a chat or voice interface with the AI agent, which will evaluate manuals and analyze the shift log before providing instructions on how to rectify the fault. It automatically documents incidents and solutions and also passes them on to other plants operating the same machinery. Thanks to integrated domain knowledge, AI agents can answer questions correctly up to three times more often than isolated AI systems and reduce the manual effort for documentation and data reconciliation by up to 50 percent.

Digital AI twins: State-of-the-art manufacturers face a major challenge: how to keep track of the huge amounts of data that arise throughout a product's lifecycle and at the same time make that data usable. Bosch's digital twin concept solves this problem by giving each real component a digital twin that brings together all the data and puts it into an understandable context. This enables seamless traceability and full transparency from planning through to use by the customer. Bosch is extending this principle with artificial intelligence to enable the digital twins not only to map the component's current status, but also to make reliable forecasts about its future. This means potential machine failures can be detected at an early stage, downtimes reduced, and energy consumption optimized. Companies benefit from more predictable maintenance and greater long-term efficiency of their systems.

Smart Bosch solutions: from 3D printing to EV battery recycling

Prototyping in production materials: Bosch Industrial Additive Manufacturing's granulate-based pellet printer produces precise plastic components using original injection molding materials – i.e. industrial plastic granulate. This results in prototypes with properties that are comparable to those of production components. The 3D printer achieves mechanical strengths similar to those of injection-molded parts. With optimum alignment and process control, it can even exceed these values. This makes producing functional prototypes, components for installation tests, and small batches much faster, more flexible, and cost-effective.

Recycling of electric vehicle batteries: Over the next five years, the recycling volume of electric vehicle batteries will increase tenfold. Today's recycling

infrastructure faces the challenging prospect of recycling not only huge numbers of batteries but also a wide range of different battery types. Bosch Rexroth offers a comprehensive range of solutions for every level of automation – from manual processing to semi-automated and fully automated manufacturing – based on its broad portfolio of drive and control technology as well as assembly, linear motion, and joining technology. With its scalable overall concept, the company reduces safety risks, increases process efficiency, and improves the cost-effectiveness of diagnostics, discharging, and disassembly.

Hannover Messe 2026: partner country Brazil

As the partner country of Hannover Messe 2026, Brazil is positioning itself as a driving force for sustainable industrial transformation. Bosch has been active in Brazil for over 70 years, making it a prime example of the German-Brazilian success story. With around 11,000 associates there, the company is deeply rooted in the Brazilian industrial landscape. Since 2025, Brazil has been home to Bosch's global center of competence for the agriculture industry. This is where the company concentrates on the development and manufacturing of intelligent agricultural technologies with a focus on cultivation and fertilization, while also driving innovation in areas such as Industry 4.0 and digitalization. For example, One Smart Spray – developed by Bosch in collaboration with BASF – is a unique solution for farmers that makes spraying herbicides precise and intelligent. According to preliminary figures, Bosch generated sales of 1.78 billion euros in Latin America in 2025.

Panels with Bosch experts at Hannover Messe:

- **Monday, April 20, 2026, Microsoft booth, hall 17, booth G06:**
Norbert Jung, Deb Cupp (Microsoft), panel discussion
- **Tuesday, April 21, 2026, 10:00 am – 12:00 pm, Center Stage, hall 25:**
Tanja Rückert, Industry 4.0 Platform Leaders' Dialogue
- **Tuesday, April 21, 2026, 3:30 – 4:30 pm, hall 26, Automation & Digitalization Solution Lab (booth E43), Masterclass 1:**
Josepha Pfeiffer, masterclass "From scalable semantic data and digital twins to value creation in industry"
- **Wednesday, April 22, 2026, 10:00 – 10:20 am, hall 26, Automation & Digitalization Solution Lab (booth E43), Expert Stage 2:**
Michael Kolb, lecture "Agentic AI is easy – the path to productive application is not"
- **Wednesday, April 22, 2026, 11:40 am – 12:00 pm, hall 12, Energy & Industrial Infrastructure Solution Lab (booth F56), Expert Stage:**
Josepha Pfeiffer, lecture "Digital product twins: lifecycle data for product passports and other regulations"

- **Thursday, April 23, 2026, 11:15 – 11:35 am, hall 26, Automation & Digitalization Solution Lab (booth E43), Expert Stage 1:**

Dr. Birgit Boss, lecture “Beyond data silos: Unlocking next-gen industrial value with semantic digital twins”

Press photos and infographics are available on the Bosch Media Service at www.bosch-press.com.

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