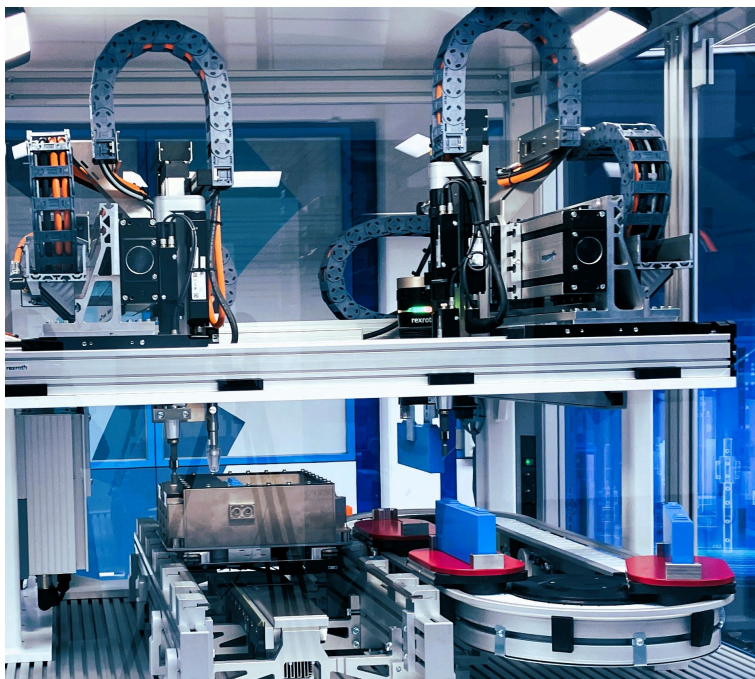


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Bosch Rexroth presents automation technology for defense industry manufacturing at the Hannover Messe

Manuela Kessler | 20.04.2026 | Lohr am Main / Germany | PI 008/26

- Solutions and services for increased throughput and higher production volumes
- Portfolio for every level of automation – from improving the efficiency of manual workstations to the smart factory
- Secure automation for future-proof manufacturing "made in Europe"



At the Hannover Messe, Bosch Rexroth will present how complex value streams and end-to-end material flow solutions can be implemented with maximum dynamics. (Image source: Bosch Rexroth AG)

Many European countries are currently intensifying their defense efforts. In order to achieve the necessary quantities, the manufacturing companies are required to scale their production with the same level of precision and quality. With products and solutions for process optimization, production planning, training, and simulation Bosch Rexroth enables a faster transformation of the value chain – from manual to semi-automated and automated manufacturing, all the way to the smart factory.

Manufacturers of defense and dual-use goods are currently facing several challenges. These include accelerating product development as well as faster commissioning, stabilization, and increased efficiency of production on an industrial scale. The ultimate goal is zero-defect manufacturing. At the Hannover Messe, Bosch Rexroth is presenting "made in Europe" services and automation technology that enable manufacturing companies to meet the increasing requirements.

From simulation systems to human-robot collaboration

At its booth, Bosch Rexroth will present, using state-of-the-art training and simulation systems, how systems can be commissioned and maintained more efficiently in the future. This enables manufacturers in the defense industry to counteract costly production errors and extended downtime despite a shortage of skilled workers. Another solution on the booth illustrates how a production process that was previously manual can achieve significantly higher cycle rates, precision, and quality in a short period of time. Preconfigured and tested mechatronic modules,

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such as cartesian multi-axis systems or electromechanical cylinders including drive technology, can be integrated into machines and production systems in a time- and cost-efficient manner, thereby shortening the engineering process.

Another key aspect of production modernization is reducing the workload on employees and providing them with support – for example, through collaborative robots from Kassow Robots, in which Bosch Rexroth holds a majority stake. In Hannover, Bosch Rexroth is showcasing solutions for seamless human-robot collaboration in material transport and workpiece assembly. A test bench for various product and endurance tests then ensures the quality and functionality of the products.

Future-proof automation

Companies that are able to efficiently parallelize tasks in existing applications (brownfield) and scale their portfolio in line with the increasing demand are prepared for the future. Automation platforms such as ctrlX AUTOMATION support this, as their open approach, modular design and co-creation enable maximum freedom in the automation of greenfield and brownfield projects. On the path to data-driven, throughput-optimized, and error-minimized production, companies must also meet cybersecurity requirements: With the Cyber Resilience Act (CRA), which came into effect at the end of 2024, they face the challenge of designing their digital products to be comprehensively secure. Here, Bosch Rexroth offers a solution with its Linux-based operating system ctrlX OS, which is already prepared for the requirements of the CRA. ctrlX OS is designed to be “secure by design” and “secure by default” and is certified by TÜV Rheinland to IEC 62443-4-2 Security Level 2.

Automation expertise for industrial applications

Based on its many years of experience in industrial applications across a wide range of industries, Bosch Rexroth has extensive expertise in the implementation of modern, intelligently connected manufacturing concepts. This includes, for example, in-depth specialist knowledge in the production of products under the strictest clean room conditions with narrow quality tolerances in high quantities. This includes, for example, in-depth knowledge in the manufacturing products under the strictest cleanroom conditions with tight quality tolerances in high volumes.

Artificial intelligence is a key driver for optimizing manufacturing processes. Rexroth customers are already benefiting from its capabilities in engineering today. In the future, it will also play a significant role in production, quality assurance, and service, helping to increase efficiency, precision, and cost-effectiveness.

Bosch Rexroth at the Hannover Messe: hall 26, booth E69

Basic Information Bosch Rexroth

As one of the world’s leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, around 32,600 associates generated sales revenue of 6.5 billion euros in 2024.

Basic Information Bosch

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

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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.

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