

PRESS INFORMATION

New degrees of freedom for modular packaging machines

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Packaging machine manufacturer Schubert relies on control cabinet-free drive technology from Bosch Rexroth



Gerhard Schubert GmbH is presenting its new generation of modular packaging machines with control cabinet-free drive technology from Bosch Rexroth at interpack 2026 in hall 14, booth D01. (Image source: Gerhard Schubert GmbH)

Central control cabinets take up space, increase cabling requirements, and complicate modular machine designs. Gerhard Schubert GmbH therefore relies on the latest generation of cabinet-free drive technology from Bosch Rexroth, thereby enhancing the modularity, integration, and flexibility of its machines.

"Modular mechanical engineering has been a key success factor for us for years," explains Jan Köhler, Head of Control Technology/Control Development at Gerhard Schubert GmbH. "With the new generation, we are taking the next step. We are continuing to develop our cabinet-free approach in a targeted manner and creating additional degrees of freedom for our machine architecture."

Together with Bosch Rexroth, Schubert is pursuing a decentralized approach to drive technology: The drives are integrated directly into the machine structure – to a much greater extent in the future than in previous solutions, in which some were still housed in the extended cable duct. Key components include the ctrlX DRIVE cabinet-free servo drive technology, including power supply units, as well as servo motors from the MS2N and MS2S series by Bosch Rexroth. The new generation of drives offers consistent scalability – from single-axis to dual-axis units and different power ratings. This allows drive solutions to be optimally adapted to the specific power requirements of the machine. The scalable drive architecture also contributes to installation space optimization: By using dual-axis units and decentralized supply units, the required installation space can be significantly reduced and integration into the machine simplified. In addition to linear structures, star or T-topologies can also be realized, enabling machine modules to be combined and expanded with significantly greater flexibility.

New energy concept

In the new architecture, the drives are connected via a common DC bus. This allows them to exchange energy with each other – for example, when braking energy from one axis is used by another – without any losses through energy being fed back into the grid. A central power supply makes it possible to equalize energy across the entire machine. At the same time, the regulated DC bus voltage ensures consistent machine performance, even under varying grid conditions. This reduces conversion losses and increases the energy efficiency of the entire machine.

Development in close partnership

The technological development was carried out in close cooperation between Schubert and Bosch Rexroth. As a key customer, Schubert was involved in the development process of the new generation of ctrlX DRIVE cabinet-free drive technology from Bosch Rexroth from an early stage. "The close cooperation with Bosch Rexroth has enabled us to incorporate our requirements directly into development and to test the technology under real-life conditions at an early stage," says Jan Köhler.

Schubert is presenting its new generation of modular packaging machines for the first time at interpack 2026 in hall 14, booth D01. The machines' architecture remains open to future

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extensions – both in terms of additional functions and scalability to larger machine configurations and other performance classes.

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 31,900 associates generated sales revenue of 6.5 billion euros in 2025.

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 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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