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Scalable solutions for packaging industry

Manuela Kessler | 24.09.2024 | Lohr am Main / Germany | PI 023/24

Bosch Rexroth presents holistic automation solutions for the packaging sector at FACHPACK 2024



ILLIG packaging solutions GmbH relies on solutions from the modular automation toolkit ctrlX AUTOMATION from Bosch Rexroth for its modular XLU machine series. ILLIG presents the system at FACHPACK in hall 1, booth 258 (Image source: ILLIG packaging solutions GmbH)

High competitive pressure, the demand for more flexibility and sustainability among manufacturers and end users and the omnipresent shortage of skilled workers - the challenges in the packaging industry are manifold. They can only be mastered with holistic machine concepts and an increase in the level of automation. Bosch Rexroth offers a comprehensive portfolio of solutions for the entire process chain - from packaging printing and processing to primary, secondary and end-of-line packaging to intralogistics, including warehousing.

Automation system ctrlX AUTOMATION: More openness and safety for packaging machines

With its flexible app architecture, the automation system ctrlX AUTOMATION from Bosch Rexroth enables the simple integration of individual functions. Users can efficiently adapt automation processes to specific production requirements and react more quickly to future market changes. The consistent update and patch capability of the software increases security.

From its automation portfolio, Bosch Rexroth will be showcasing control cabinet-based and cabinet-free drives ctrlX DRIVE and two motion systems ctrlX FLOW at FACHPACK, as well as pre-configured solution packages for packaging machines.

VarioFlow belt conveyor: expanded system for film-packed consumer goods

The new VarioFlow belt conveyor was developed for the efficient and gentle transportation of packaged fast-moving consumer goods (FMCG), pharmaceutical and healthcare products. With

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its fine-meshed belt surface, it is also suitable for transporting unstable or bulk, film-packed products. The MTpro planning software enables even complex designs and system layouts to be created in a short space of time. Conveying lengths of up to 30 m, layouts with curves on both sides and conveying speeds of up to 40 m/min can be implemented with just one drive. The same system components are available as for the VarioFlow plus chain conveyor system.

Linear motion technology: Innovative solutions for intralogistics

The demand for automation in intralogistics is high: automated container warehouses have to cope with the high throughput in online retail, autonomous transport systems have to make the flow of goods more flexible, and efficient solutions are needed instead of high-maintenance pneumatics and for mixed palletizing. This is where Bosch Rexroth comes in with its comprehensive linear motion technology portfolio for intralogistics and offers components, modules and subsystems that can be used quickly.

Mobile Cobot Station: More flexibility in production and intralogistics

At FACHPACK, Bosch Rexroth will be demonstrating how companies can automate and flexibly handle production tasks in the future with a mobile cobot station. The solution developed by HELDELE Automation, Certified Excellence Partner of Bosch Rexroth and sales partner of Kassow Robots, utilises a 7-axis cobot KR810 from Kassow Robots and the control ctrlX CORE from Bosch Rexroth. It offers small and medium-sized enterprises a high degree of flexibility, as it can perform a wide variety of tasks at different locations in production. A key advantage of the solution: While the cobot installed on the mobile station carries out its work independently, the autonomous mobile robot ACTIVE Shuttle can take on other tasks in production and intralogistics.

Bosch Rexroth at FACHPACK: Hall 2, booth 424

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 33,800 associates generated sales revenue of 7.6 billion euros in 2023.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 429,000 associates worldwide (as of December 31, 2023). The company generated sales of 91.6 billion euros in 2023. 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,

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electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, 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 user-friendly, 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 470 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. At 136 locations across the globe, Bosch employs some 90,000 associates in research and development, of which nearly 48,000 are software engineers.

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