

PRESS INFORMATION

Bosch Rexroth to exhibit at HANNOVER MESSE: Linear motion system ctrlX FLOWHS

Manuela Kessler | 22.04.2024 | Lohr am Main / Germany | PI 012/24

Flexibility and high speed during transport and positioning

Connection to ctrlX AUTOMATION provides access to the complete ecosystem

ctrlX FLOWHS is open to any type of operating concept



The linear motion system ctrlX FLOWHS enables high-speed and flexibility in transportation and positioning. (Image source: Bosch Rexroth AG)

Flexibility and high speed during transportation and positioning – and with a small footprint. These are the characteristics of a linear motion system which factories need to meet today’s demand for fast and versatile processes. The linear motion system ctrlX FLOWHS from Bosch Rexroth is designed to meet these characteristics exactly, while remaining open to all types of operating concepts. At the HANNOVER MESSE trade fair, Bosch Rexroth will demonstrate, among other things, how ctrlX FLOWHS is operated via the i.safe MOBILE industrial tablet IS940.x powered by the Qualcomm®1 QCM6490 processor at booth D26 in hall 6.

ctrlX FLOWHS is designed for openness and flexibility. It is based on the control system ctrlX CORE with the operating system ctrlX OS. The solution is easily expandable and future-proof thanks to app technology. The linear motion system is 100 percent integrated into the automation system ctrlX AUTOMATION and benefits from the complete ctrlX OS Ecosystem.

“The connection to our automation system means that all building blocks of the platform and also the apps of the partner network ctrlX World can be used. This is a major benefit compared to self-contained systems, as users are able to access a range of functions and expand individual parts. As a result, companies can easily adapt their processes to meet changing requirements. This encourages not only innovation but also efficiency in the entire production process chain,” explained Steffen Winkler, Senior Vice President Sales Business Unit Automation & Electrification Solutions at Bosch Rexroth.

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High dynamics and small footprint

The plug-and-play functionality provides even more flexibility. Straight and curved segments as well as points can be combined as necessary to create specific topologies, lengths and routes.

One benefit of ctrIX FLOWHS is its high dynamics which helps to ensure the necessary performance levels in modern factories. With acceleration of up to 10 G and a speed of 5 m/s, the system allows quick movements. Multiple movers with a scalable payload of up to 2.5 kg (individually) or 5 kg (in a group) offer suitable performance and precision. The U-shaped design improves routing and minimizes friction to ensure a constant maximum speed – even in curves.

At the same time, the system takes up only a very small amount of space. Compared to other solutions, the system has smaller movers and a product spacing reduced by 20 percent to just 40 mm. This makes it possible to build more compact products and manufacture more efficiently.

Flexible operating concepts – also with IoT capability

Companies can choose different operating concepts for ctrIX FLOWHS. The combination with the i.safe MOBILE industrial tablet IS940.x, which features an industrial IoT processor from Qualcomm Technologies Inc. , is completely new. Specially designed for IoT applications, the application processor features a high-performance CPU and AI capabilities. It is also equipped with an integrated 5G modem and Wi-Fi connectivity. With it, the i.safe MOBILE tablet can be used as a connected and highly available IoT solution for operating ctrIX FLOWHS. The tablet can be connected wirelessly to the ctrIX AUTOMATION system and visualizes the live operation of ctrIX FLOWHS in the 3D viewer app.

At Hannover Messe, Bosch Rexroth will be demonstrating all the advantages of the linear motion system in hall 6 at booth D26.

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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.

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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, 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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