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Linear axes and actuators: Fully electrified and ready for immediate use

Manuela Kessler | 16.05.2023 | Lohr am Main / Germany | PI 035/23

Bosch Rexroth supplies linear axes and actuators with an automation package for a wide range of motion tasks

- Linear modules, compact modules and electromechanical cylinders
- Automation package comprising a motor, drive controller, cable and, optionally, software
- Short time to market: Quick selection and delivery, easy commissioning



With the help of a complete package including tailored mechanics, electrics and software, automated movements can now be achieved quickly and easily. (Image source: Bosch Rexroth AG)

Along with its multi-axis systems, Bosch Rexroth now offers individual linear axes and actuators in combination with an automation package, optionally with operating software. The selected packages can be ordered from the Bosch Rexroth online shop and, thanks to components which are kept in stock, delivered at short notice. As a result, users can reduce their time to market. Rexroth Service assists with commissioning and ensures long life cycles thanks to accompanying services.

Straightforward engineering, quick commissioning, long life cycles – with the new automation packages for its linear axes and electromechanical cylinders, Bosch Rexroth meets these central requirements for the factory automation market. Users from a wide range of sectors get a perfectly tailored, long-lasting solution from a single source in order to achieve linear movements in an efficient manner. Typical automation tasks include handling, pressing and dispensing.

The automation packages complement the long-lasting mechanical systems, adding a servo motor, drive controller, mains filter and cabling. The cables are available in three lengths. When it comes to the drive controllers, users can choose between IndraDrive or ctrlX DRIVE. The drive parameters are stored in the motor encoder data memory prior to delivery and are read

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automatically for quicker commissioning. The mains filter supports signal processing to the periphery and ensures interference frequency-free operation of the individual axis.

If desired, the automation packages can include the proven operating software for the Smart Function Kits Handling, Pressing or Dispensing. The pre-installed software includes a commissioning wizard with automatic parameterization of the drive controller and a module for convenient visual programming of movements with the help of function blocks.

Digital engineering with modern e-tools

The automation package is added directly to the linear axes and actuators in the LinSelect configuration software, and the commissioning software in the seamlessly connected online configurator. The documentation and the CAD data are also made available for downloading here. The chosen subsystem can then be ordered from the online shop. Each bundle is given a specific material variant which allows it to be clearly identified.

Because Bosch Rexroth keeps all components in stock, the subsystems can be delivered at short notice. This helps customers to reduce their time to market.

Sustainable solutions with long-term service

Bosch Rexroth supports companies lacking specialist staff with complementary services. If necessary, Rexroth Service can provide personal support for users during commissioning. In order to protect companies' investments, Bosch Rexroth ensures the availability of spare parts. The linear motion technology solutions also require little maintenance and have long lubrication intervals.

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 more than 32,000 associates generated sales revenue of around 7.0 billion euros in 2022.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in

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sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." 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. The basis for the company's future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

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