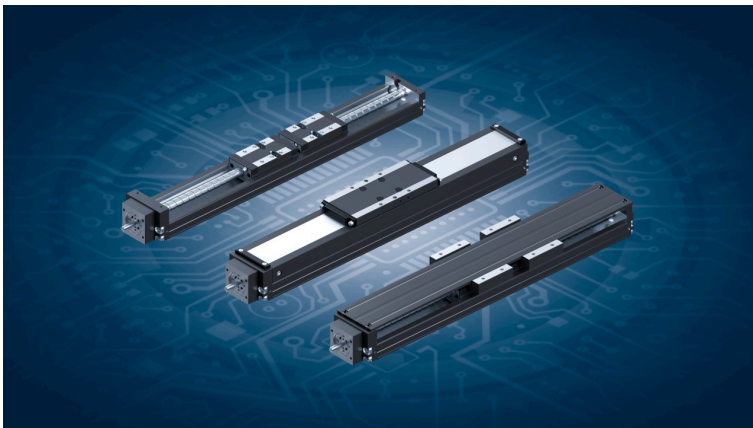


PRESS INFORMATION

The new generation of linear axes: Ideal for semiconductor production

Manuela Kessler | 17.10.2022 | Lohr am Main / Germany | PI 056/22

- Highly rigid and precise: Steel profile as frame with integrated guideways
- Digital engineering: Freely configurable with numerous options
- Easy to integrate thanks to compact design



The new generation of PSK precision modules from Bosch Rexroth combines speed and dynamics with high precision for semiconductor production and the electronics industry. (Image source: Bosch Rexroth AG)

For the new generation of PSK precision modules, the developers at Bosch Rexroth have increased the rigidity of the frame. Two accuracy classes cover usage scenarios for various applications in an economical manner. With a ball screw assembly sealed on both sides and an extended lubrication concept, the new PSK precision modules from Bosch Rexroth meet the requirements in semiconductor production and the electronics industry even better than before.

The range includes three different sizes. The modules are based on a smooth, compact and rigid precision steel profile as the frame with integrated guideways. The side of the ground reference edge can be selected. This speeds up assembly and makes it easier to align the axis. Compared to previous models, the frame offers greater torsional rigidity and higher planar moments of inertia.

With two accuracy classes, precision modules from Bosch Rexroth meet various mechanical requirements in clean production in an economical manner. The optional magnetic sensors can be set across the entire travel range.

At the same time, Bosch Rexroth has expanded the lubrication concept to include other lubrication types. The standard version has initial greasing using standard industrial lubricants. The runner block and ball screw assembly can also be preserved rather than greased to allow the use of approved greases later on. At the same time, the modules can be connected to central lubrication systems with liquid grease. Automated relubrication increases operational safety as human errors when it comes to observing lubrication intervals are ruled out. Engineers also have greater freedom because they do not need to provide access for manual lubrication procedures.

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Even the engineering process is a breeze: Thanks to the simple selection procedure using the selection and design tool LinSelect and subsequent online configuration including the drive, the customized PSK solution can be finalized and ready for ordering in a matter of minutes. The online configurator guides users easily and reliably through the product specification process and is available in most common languages.

Bosch Rexroth thus offers a fully digital engineering process from design through to ordering including pricing and the provision of CAD data. The order confirmation also includes a clear material number which can be used to reorder the particular linear axis without having to reconfigure it. The user also receives the associated 2D and 3D CAD data straight away.

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 Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions 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 31,000 associates generated sales revenue of around 6.2 billion euros in 2021.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,600 associates worldwide (as of December 31, 2021). The company generated sales of 78.7 billion euros in 2021. Its operations are divided into four business sectors: Mobility Solutions, 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 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 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 76,100 associates in research and development, of which more than 38,000 are software engineers.

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