

PRESS INFORMATION

A 70 percent longer service life for linear bushings

Manuela Kessler | 10.07.2023 | Lohr am Main / Germany | PI 040/23

More stable linear bushings with an optional plastic housing for more cost-effective round guides

- 20 percent higher load capacity thanks to an optimized production process
- Cost benefits thanks to longer service life and slimline design
- Available from stock, easy selection and online ordering



Thanks to their higher load capacities, the compact segmental linear bushings with lightweight plastic housing have a 70 percent longer service life. (Image source: Bosch Rexroth AG)

Bosch Rexroth drives forward the development of durable linear motion technology. As a result of the optimized production process, the segmental linear bushings with plastic cage used in a wide variety of industries achieve a load capacity that is up to 20 percent higher and a service life that is up to 70 percent longer. They are part of a Rexroth round guide with a matching shaft. The particularly light and short linear bushings allow long working spaces and offer additional sealing options. Thanks to the higher load capacities and the resulting downsizing options, applications can be made even safer, more cost-effective and more sustainable.

The segmental linear bushings with plastic housing are available in the sizes 12 to 40. Thanks to their high quality, variance and availability, they are ideal for use in a wide range of different scenarios. These range from factory automation, production and the packaging of fast moving consumer goods to semiconductor manufacturing. Further application fields include simple handling tasks or feed systems in machine tools.

The increase in load capacity now makes it possible to use a smaller size in many cases while meeting the same requirements. Downsizing reduces system costs, saves space and reduces weight.

PRESS INFORMATION

The linear bushings' other strengths include their ease of movement, low susceptibility to dirt and easy cleaning. In addition, numerous applications benefit from the high degree of freedom in the circumferential direction. Thanks to the unsupported design, the linear bushing does not have to rest on a surface and can thus also be used as a column guide for example.

Easy selection, quick ordering and delivery

The segmental linear bushings with plastic housing are also available as linear sets. Bosch Rexroth dispatches these components within three working days. In certain cases, they are dispatched within 24 hours.

The free Linear Motion Designer (LMD) calculation program is a quick and easy way to select the right linear bushing. The calculation program guides the user intuitively through the design process and, if desired, transfers the result to the online configurator for selecting and ordering the appropriate precision steel shaft. The end-to-end e-tool chain covers the entire engineering processes through to ordering digitally – including price information, automatic generation of the production order and provision of the CAD data.

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 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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