

PRESS INFORMATION

The new reliable actuator for heavy loads

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High-precision and low-maintenance: Bosch Rexroth adds new EMC-HP series for loads of up to 100 kN to its range of electromechanical cylinders.

- Powerful, robust and precise thanks to planetary screw assembly (PLSA)
- Digital engineering: freely configurable with a range of different options
- Easy to integrate compact design

Bosch Rexroth's electromechanical cylinders (EMCs) are now available in a high-force, high-precision, low-maintenance version - the EMC-HP. Designed for heavy loads up to 100 kN, the new actuators are robust, compact and low-maintenance. Based on the reliable planetary screw drive, users will benefit from impressive continuous power even under harsh conditions. This is thanks to both the new oil-bath lubrication and the optional water cooling directly on the screw itself. As with the other members of the EMC family, a fully digital process, from selection through to ordering, shortens the engineering time.

The new EMC-HPs are currently being launched on the market in three sizes 115, 130 and 160 (housing diameter) with protection class IP65 and are suitable for a range of different heavy-duty applications with strokes of up to 1,500 mm: from pressing, forming and riveting to tensioning, positioning and testing.

Each EMC-HP uses Bosch Rexroth's tried-and-tested planetary screw assembly (PLSA) in order to be able to meet extremely high standards in terms of control accuracy and dynamics. Thanks to a dynamic load capacity (C_{dyn}) of up to 189.5 kN, high loads can be quickly and accurately moved as part of an energy-efficient process even in complex motion profiles – with axial forces of up to 100 kN and at speeds of up to 0.83 m/s.

The robust and low-maintenance design of the planetary screw assembly also has a positive impact on lubrication intervals. Additionally, the seals can be replaced in just a few steps if required. Overall, this low maintenance linear motion technology from Bosch Rexroth will help to increase productivity and reduce total costs.

Standard system for a range of different applications

Even the engineering process is a breeze: The simple selection procedure using the LinSelect e-tool and subsequent online configuration including drive, the customized EMC solution can be finalized and ready for ordering in a matter of minutes. Numerous options, such as length and attachment method, open up a wide range of applications.

With their compact dimensions, lightweight aluminum housing and single-cable solutions in connection with most drives, the EMC-HPs can be quickly and easily integrated into machine tools on site. In order to ensure short assembly times, Bosch Rexroth supplies the complete system pre-assembled from a single source – including mechanics, drive and controller as well as global service.

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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 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 29,600 associates generated sales revenue of around 5.2 billion euros in 2020.

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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