

Bosch Rexroth offers a complete range of electromechanical cylinders for heavy-duty applications

Ready-to-install electromechanical cylinders from Rexroth cover pressure and pulling forces up to 290 kN with two series: EMC and EMC-HD, offering a total of 12 sizes

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For Immediate Use



Robust assemblies for freely programmable motion sequences.

Rexroth has increased scalability of the EMC-HD electromechanical cylinder for moving heavy loads in machines, plants and outdoors installations. In five power stages, the heavy-duty series covers pressure/pulling forces up to 290 kN. The robust, ready-to-install actuators comply with the IP65 protection class and can even withstand harsh environments. They are based on Rexroth's ball and planetary screw drive portfolio. Movement profiles can be implemented energy-efficiently and with a high level of precision, no matter how complex the application.

Simply enter the parameters for force, speed or location and the EMC-HD's start moving extremely heavy loads accurately and precisely according to the parameters of the controller. The electromechanical cylinders can be integrated flexibly into modern automation structures and greatly simplify the engineering as a ready-to-install assembly. With a maximum stroke of 1,800 mm depending on actuator size, they can move to any number of positions chosen by the user.

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Press Release

Without an additional external position measurement system, the EMC-HD's can achieve repeatability of up to ± 0.01 mm.

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Even the standard version of the EMC-HD fulfills the requirements for the IP65 protection class. This means that they are suitable for outdoor use and perform reliably over a wide temperature range of -10 °C to $+60$ °C. In the versions with a planetary screw drive and low-temperature grease, the working temperature may reach down to -30 °C. The piston rod is corrosion resistant and can withstand direct contact with water. The simple and robust structural design ensures a long service life even under harsh environmental conditions. The sealing system protects the cylinder from contamination from the outside, which could lead to wear, therefore ensuring longer intervals between preventive maintenance.

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Users have the choice between high-precision ball or planetary screw drives from Rexroth with a range of leads and different sizes. This allows force and dynamic performance to be matched to the requirements of the perspective application. Rexroth offers the EMC-HD both as ready-to-install, purely mechanical axes and as a complete system with a choice of precisely matched gear units, servo motors and drive controllers – up to four megawatts, from the IndraDrive series.

In total, the Rexroth range of electromechanical cylinders includes 12 sizes. The smaller EMC series with aluminum housing begins with pressure/pulling forces up to 1.2 kN and extends to 56 kN in seven power stages. The five versions of the EMC-D heavy-duty cylinder with steel housing start overlapping at 44 kN and goes up to 290 kN. Both series are suitable for universal use in nearly all applications for machinery and plant engineering.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves 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 to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 29,500 associates generated sales revenue of approximately 5 billion euros in 2016. To learn more, please visit www.boschrexroth.ca

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,500 associates worldwide (as of December 31, 2017). According to preliminary figures, the company generated sales of 78 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. 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 create solutions for a connected life, and to improve 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 subsidiaries 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. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs 62,500 associates in research and development.

Additional information is available online at www.bosch.com, iot.bosch.com, www.bosch-press.com, twitter.com/BoschPresse.

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