

## Press Release

### Electromechanical cylinder from Rexroth: powerful with a hygienic design

Second generation with new design and an additional size

04/21/2016

For Immediate Use



Without slots and recesses: second generation EMC electromechanical cylinder, with hygienic design

**With the second generation EMC electromechanical cylinder, Rexroth expands the possibilities for utilizing these compact drive units. With their hygienic design and IP65 protection class, they are now also suitable for applications with frequent cleaning cycles, such as those in the food industry. Furthermore, the new size EMC100-XC-2 increases the power density for feeding forces of up to 56 kN, e.g. for applications in forming technology. An optional force sensor allows decentralized process controls without a higher-level control system.**

The axis penetrates the narrow working area and approaches different positions, or varies the pressing force: electromechanical cylinders combine the advantages of a slim cylinder with the possibilities provided by digital control of electrical drives. The ready-to-install drive units consist of anodized aluminum profiles in ISO standard dimensions, with an integrated ball screw drive. They cover variable-length strokes of up to 1,500 mm. In the newly-developed second generation, Rexroth has implemented the principle of hygienic design in the cylinder body. There are no recesses or slots in which dirt can be trapped. The screws on the end face can be optionally sealed. Together with the version in IP65, which is also valid for the timing belt side drive, the EMC withstands frequent cleaning cycles and spray water.

For use in applications with particularly aggressive cleaning agents, the

Contact for Journalists:  
Bosch Rexroth Canada  
David Lopes  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
david.lopes2@boschrexroth.ca

Bosch Rexroth Canada  
Karen Maiden  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
karen.maiden@boschrexroth.ca

## Press Release

version in IP65 + R ensures a long service life with seals and scrapers made from chemically stable materials. A pressure compensation port prevents the occurrence of overpressure or negative pressure in the cylinder for the versions in IP65.

04/21/2016

For Immediate Use

### **Additional size and optional force sensors**

As the seventh size, the EMC100-XC-2 variant completes the product range. XC stands for extra capacity. The EMC-100-XC is longer as the EMC-100-NN-2, a larger axial bearing and larger ball screw drive provide up to 56 kN of feeding force - at the same profile cross section. This widens the usage for electromechanical cylinders from Rexroth towards more powerful applications in forming and machining.

Furthermore, Rexroth offers all sizes with an optional force measuring pin. This can be placed on the end of the piston rod as well as on the timing belt side drive. The sensors transmit the values with a +/- 10V analog signal to the drive. A Motion Logic System, which can be optionally integrated in the Rexroth drives, evaluates these signals and enables decentralized process control without a higher-level control system. Furthermore, the certified Safety on Board safety functions that are integrated in the drive simplify proper implementation of the Machinery Directive with low engineering effort.

The new housing is equal in its dimensions to those of the first generation. Interchangeability is thereby ensured. The technical data of the second generation is the same or better for all sizes, in comparison with the previous series. As a function of the piston rod position, the new EMC catalog contains now diagrams for the permitted radial piston rod force. With the newly designed lubrication points, users can integrate the electromechanical cylinder in central lubrication concepts. On request, the modules can be delivered by Rexroth without initial lubricant. In this way, users can apply industry-specific lubricants directly.

Rexroth provides a wide range of servomotors and drive controls which are suitable for the different sizes. Users can also operate the electromechanical cylinders using motors and controllers from other manufacturers. An online configurator supports selection of the suitable motor attachment kit.

Detailed information on the product can be found under

[www.boschrexroth.com/emc](http://www.boschrexroth.com/emc)

#### *About Bosch Rexroth:*

*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*

Contact for Journalists:  
Bosch Rexroth Canada  
David Lopes  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
david.lopes2@boschrexroth.ca

Bosch Rexroth Canada  
Karen Maiden  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
karen.maiden@boschrexroth.ca

# Press Release

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 31,100 associates generated sales revenue of approximately 5.4 billion euros in 2015.

To learn more, please visit [www.boschrexroth.com](http://www.boschrexroth.com)

04/21/2016

For Immediate Use

The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide (as of December 31, 2015). According to preliminary figures, the company generated sales of more than 70 billion euros in 2015. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. 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 and sales network covers some 150 countries. The basis for the company's future growth is its innovative strength. Bosch employs 55,800 associates in research and development at roughly 115 locations across the globe. The Bosch Group's strategic objective is to deliver innovations for a connected life. 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."

Additional information is available online at [www.bosch.com](http://www.bosch.com), [www.bosch-press.com](http://www.bosch-press.com) and <http://twitter.com/BoschPresse>

Additional information is available online at [www.bosch.com](http://www.bosch.com), [www.bosch-press.com](http://www.bosch-press.com) and <http://twitter.com/BoschPresse>

In the U.S., Canada and Mexico, the Bosch Group manufactures and markets automotive original equipment and aftermarket products, industrial drives and control technology, power tools, security and communication systems, packaging technology, thermotechnology, household appliances, healthcare telemedicine and software solutions. For more information, please visit [www.boschusa.com](http://www.boschusa.com), [www.bosch.com.mx](http://www.bosch.com.mx) and [www.bosch.ca](http://www.bosch.ca)

###

Contact for Journalists:  
Bosch Rexroth Canada  
David Lopes  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
[david.lopes2@boschrexroth.ca](mailto:david.lopes2@boschrexroth.ca)

Bosch Rexroth Canada  
Karen Maiden  
3426 Mainway Drive  
Burlington, ON  
Telephone (905) 335-5511  
Fax (905)335-4184  
[karen.maiden@boschrexroth.ca](mailto:karen.maiden@boschrexroth.ca)