

Press Release

Fluid intelligence open for Connected Industry

Motion Controls for hydraulic drives from Rexroth: Open, scalable and consistently easy

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IndraMotion MLC motion logic control for hydraulic drives

The networking of all automation technologies with Connected Industry is becoming increasingly important at an ever faster pace. With a finely scalable range of Motion Controls for hydraulic applications, Rexroth has now integrated fluid technology in these concepts as well. The Motion Controls use decentralized intelligence and open standards for communication to fulfill the requirements for horizontal and vertical integration. They act autonomously and integrate themselves independently in a changing context. Machine manufacturers can thus combine the physical advantages of the hydraulic system, such as high power density, with the requirements of Connected Industry.

The decentralized intelligent Motion Controls for the control and actuator level cover the requirements of Connected Industry with regard to hydraulic actuators as well. The selection ranges from the IndraMotion MLC motion logic system for decentralized and centralized concepts for up to 64 electric and hydraulic drives. At the drive level, controller-based single- and multi-axis controllers are available along with the IAC Multi-Ethernet cabinet-free control electronics. In this case the drive controller is fully integrated in the valve.

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The Motion Controls use software controls to adjust themselves as autonomous systems to changing process conditions. To do this, Rexroth has taken a large number of functions which were previously executed mechanically and relocated them to the software. Pre-programmed best-class controllers for position, pressure, force and speed, along with alternating control, make it possible for machine manufacturers to quickly realize motion sequences. All Motion Controls use the standardized programming languages based on IEC61131-3.

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Engineers do not need any in-depth knowledge of hydraulics for initial electrical commissioning. The wizard-supported software takes them through each stage through to completion with dialog boxes developed specifically for the hydraulics. Rexroth thus makes the drive physics independent of the automation and seamlessly integrates the hydraulics in higher-level systems.

The Motion Controls use an open Multi-Ethernet interface for integration in horizontal and vertically networked concepts. For open real time data exchange they support Sercos, EtherCAT, Ethernet IP, PROFINET RT and Varan. Protocol setting is by software. This reduces the logistics costs, since a single hardware variant covers all possibilities. The open interfaces and best-in-class controllers makes quick networking possible for machine manufacturers in a wide range of concepts even with hydraulic actuators.

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, Factory Automation, and Renewable Energies 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, roughly 36,700 associates generated sales revenue of approximately 5.7 billion euros in 2013.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. According to preliminary figures, its roughly 281,000 associates generated sales of 46.4 billion euros in 2013 (Note: due to a change in the legal rules governing consolidation, the 2013 figures can only be compared to a limited extent with the 2012 figures). Its operations are divided into four business sectors: Automotive Technology, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its more than 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth.

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In 2013, Bosch applied for some 5,000 patents worldwide. The Bosch Group's products and services are designed to fascinate, and to improve the quality of life by providing solutions which are both innovative and beneficial. In this way, the company offers technology worldwide that is "Invented for life."

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

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