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Bosch Rexroth unveils BODAS RC 40 controllers specifically designed for agricultural machinery

The latest generation of the BODAS RC series combines functional safety and information security with connectivity that is fit for the future

Rexroth's BODAS RC 40 series will enable flexibility in the development of future agricultural machines. (Image source: Bosch Rexroth AG)

Three versions of the new BODAS RC controllers in Rexroth's 40 series are available and ideally suited to use in agricultural machinery. The controllers cover functional safety and all relevant requirements of the agricultural sector. The BODAS RC 40 controllers will ensure that developers are properly prepared for the future as autonomous applications are also covered and new connectivity trends are accounted for and integrated.

In the latest generation of Rexroth controllers, there are three versions in the 40 series of the scalable and modular system for the optimal control of electrohydraulic components: small, medium and large. As is the case with the tried-and-tested 30 series, the three versions feature the same connectors so that machine manufacturers have flexible scaling options with the controllers when developing their products. The BODAS RC 40

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controllers and the corresponding software carry out tasks both in the travel drive and in the working hydraulics of mobile machines.

Safety today and tomorrow

The new generation of controllers is exceptionally well suited to use in agricultural machines. As such, the controllers fulfill the functional safety requirements of agricultural and forestry machinery in accordance with standard ISO 25119 and even feature safety functions that achieve agricultural performance level (AgPL) “d”. This will enable manufacturers to develop tomorrow’s applications today – which, for example, require an extremely high level of safety in autonomous applications. New security mechanisms protect manufacturers and users both from any unintentional installation of the wrong software or software version and from any improper changes to settings. As such, passwords, which are assigned to the clearance levels of different roles within the machine manufacturer’s company, are allocated for example for parameters which meet legal requirements or are relevant in terms of safety.

Swift data transfer

Reliable connectivity is ensured via an ISOBUS connection. The communication interface based on the CAN standards enables applications to be carried out with the BODAS RC 40 in tractors, attachments and other agricultural machines. Since Ethernet applications are also becoming increasingly common in mobile machines, the new mid and large Rexroth controllers also feature a 100Base-T1 interface. This standard, which is well established in the field of passenger cars and trucks, enables swift data transfer via a non-shielded two-wire line inside the vehicle and represents a major trend in terms of future connectivity in agricultural machinery. The BODAS RC 40 controllers meet the EMC requirements of the agricultural sector and feature an ECE mark of conformity on account of a type approval in accordance with Regulation No 10.

For more information, visit: http://bit.ly/BODAS-HARDWARE

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About 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 32,300 associates generated sales revenue of roughly 6.2 billion euros ($7.3 billion) in 2018.

To learn more, please visit www.boschrexroth-us.com.

About Bosch:
The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). According to preliminary figures, the company generated sales from operations of 77.9 billion euros ($92 billion) in 2018. 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 manufacturing. 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 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." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 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 some 69,500 associates in research and development.

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

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