

PRESS INFORMATION

New developments in every discipline

Manuela Kessler | 26.09.2023 | Lohr am Main / Germany | PI 045/23

At Agritechnica 2023, Bosch Rexroth will present new products focusing on mobile hydraulics, digitalization, automation and electrification

- New complete solution: AgDrive with BODAS Software for self-propelled agricultural machines
- More functions: 5-position valve spool for SB24/SB34 sandwich valves
- Automation: Radar-based collision avoidance for off-highway-machines



The highlights that Bosch Rexroth will present at Booth A08 in Hall 16 include the AgDrive hydrostatic travel drive solution, the SB24/SB34 sandwich valves with advanced functions and a radar-based collision avoidance system for off-highway vehicles. (Image source: Bosch Rexroth AG)

At Agritechnica, Bosch Rexroth will present new products for developing innovative, high-performance agricultural machines and tractors in a cost-effective manner. In hydraulics, these include the complete AgDrive solution for the travel drive of self-propelled agricultural machines, SB24/SB34 sandwich valves with advanced functions and new additions to the range of axial piston pumps for the electronic open circuit (eOC). In the area of automation, a radar-based collision warning system will improve safety in the field, on construction sites and on the roads. The eLION modular electrification platform is now complemented by compact motors. The BODAS Connect telematics portfolio has new entry-level hardware. To encourage digital collaboration when developing mobile machines, Bosch Rexroth is launching a new offering with the myBODAS platform.

In the AgDrive travel drive solution, Bosch Rexroth combines state-of-the-art hydrostatic travel drive components and BODAS Software to form a complete package which allows customizable travel drives for self-propelled, multi-motor agricultural machines to be developed in a cost-effective manner.

For even more efficient working hydraulics, Bosch Rexroth is expanding its eOC (electronic Open Circuit) platform with the new A10VO Series 60 medium-pressure axial piston pump with high power density. Thanks to the 50 percent reduction in pressure pulsation, noise emissions and space requirements have again been reduced, while the revised rotary group improves efficiency.

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Thanks to a new 5-position valve spool, the SB24 and SB34 sandwich valves provide manufacturers of tractors and other agricultural machines with more functions in the same space. One practical application for the fifth position is the Hitch Lowering Support (HLS) for lowering attachments quickly and safely without installing additional valve modules.

Innovations in automation and electrification

With the radar-based collision warning system, Bosch Rexroth is presenting a modular, easy-to-integrate complete solution at Agritechnica that improves off-highway safety and reduces development work. The system helps to prevent accidents, especially when traveling at high speeds. Thanks to clearly defined interfaces, the solution is compatible with all travel drives and meets the functional safety requirements set out in the ISO 21815 standard.

Bosch Rexroth is adding the EMP series of precisely controllable motors with improved power density to the eLION modular electrification platform. With high torques in the lower speed range, the new series has everything needed for particularly compact and high-performance machines.

Bosch Rexroth is offering manufacturers a cost-effective introduction to customized telematics for off-highway vehicles with its new RCU Lite connectivity unit. The attractively priced entry-level hardware for IoT applications not only offers excellent performance – it is also scalable and safe.

Digital collaboration

With the enhanced myBODAS development platform, Bosch Rexroth provides a digital workspace that allows easier and faster software development thanks to numerous support and community features. In addition, registered members can download validated BODAS application software from the three product lines ASrun, ASopen and ASlib free of charge as part of the Try it First approach. They can then test and modify the software according to their requirements. Licensing costs are only incurred for use in series production.

The EDH compact directional valves which increase the efficiency and power of mobile machines and the EDG-OBE control module for precisely controlling mobile machines are also new. Thanks to integrated onboard electronics, Bosch Rexroth improves the efficiency of the hydraulics.

Bosch Rexroth at Agritechnica: Hall 16, Booth A08.

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 and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for

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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 32,000 associates generated sales revenue of around 7.0 billion euros in 2022.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, 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 470 subsidiary and regional companies in over 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 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

Press Contact

Please get in touch with our Press Contact



Manuela Kessler

Spokesperson
technology topics
+49 9352 184145

Manuela.Kessler@boschrexroth.de