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Free access to off-highway software

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Bosch Rexroth opens up mobile electronics software to all manufacturers and partners



Ecosystem open: Bosch Rexroth provides the entire mobile electronics software portfolio via the myBODAS platform for free testing and further development. (Image source: Bosch Rexroth)

Bosch Rexroth offers manufacturers of off-highway machines free access to the entire standard portfolio of BODAS software for controlling mobile machines. Via the digital myBODAS platform, OEMs can download validated software packages for a range of applications free of charge in order to test them and adapt them to suit their own requirements. Proven modules minimize the time, investment risks and costs involved. The service is only billed via a payment model based on credits if the software is used during series production. This makes it easy to use, flexible and transparent.

Whether it be hydraulic control, automation, connectivity or electrification – software plays a central role in the highly dynamic off-highway market. In order to achieve success with their mobile machines, original equipment manufacturers (OEMs) must reduce the development time in a cost-effective manner while reducing functional and financial risks.

Following registration and confirmation of the terms and conditions of use, the individual modules in the proven BODAS application software (AS) such as the eDA for the drivetrain are then available. The modules are developed in accordance with current standards and already meet functional safety requirements. As a result, Bosch Rexroth helps manufacturers of any size to cope with increasing complexity in vehicle development, to compensate for a lack of know-how or resources and to update or expand their offering more quickly.

This way, the OEMs' software developers can concentrate on selected customer values and speed up the launch of new functions and machines. They can also scale their own offering more quickly with software modules validated for Rexroth hardware.

New form of digital collaboration

With three product lines – ASrun, ASopen and ASlib – the open ecosystem for BODAS application software (AS) is geared to application specialists, software developers and system experts. At the same time, free access to the myBODAS platform provides the technical basis for a modern

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form of digital collaboration with agile development processes but without the investment hurdles at the beginning of development.

Billing via credits

Only when the software is used in series production is billing carried out via a payment model based on credits. These are available in pre-defined packages for Rexroth control units, making them much easier to use and increasing flexibility. As a result, the OEM only pays for what they actually need for series operation.

Increasing importance as automation progresses

The open ecosystem is being expanded all the time with standardized, extensively documented modules. myBODAS thus offers a toolkit for various control tasks involving mobile machines which is always up to date. The growing need for automation solutions and the rapidly increasing number of assistance functions such as payload estimation, position sensing or surround sensing also make the system an attractive proposition.

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 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 31,000 associates generated sales revenue of around 6.2 billion euros in 2021.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,600 associates worldwide (as of December 31, 2021). The company generated sales of 78.7 billion euros in 2021. Its operations are divided into four business sectors: Mobility Solutions, 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 440 subsidiary 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. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 128 locations across the globe, Bosch employs some 76,100 associates in research and development, of which more than 38,000 are software engineers.

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