

PRESS RELEASE

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Bosch Rexroth Showcases the Next Generation of Mobile Machine Solutions at CONEXPO/IFPE 2023

Working technology demos and exhibits highlight powerful, flexible and innovative electrified, electronic, and digitally networked solutions to transform off-highway equipment.



Full range of technology solutions in booth S80215 includes the latest Bosch Rexroth mobile hydraulics and mobile control technologies as well as multiple exhibits on major Hågglunds hydraulic direct drive systems.

Discover how Bosch Rexroth is providing practical, groundbreaking solutions for electric drivetrains, electronically controllable working hydraulics, future-proof telematics, and step-by-step off-highway automation at CONEXPO/IFPE 2023 March 14-18 in the South Hall, booth S80215 in Las Vegas.

Through an extensive array of working technology demos, exhibits and mobile machine technology experts, booth visitors have the opportunity to learn about the full range of advanced systems, solutions, and products Bosch Rexroth and Hågglunds offers the construction and off-highway equipment industries.

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The booth will showcase how Rexroth technology continues to transform mobile machines, offering new capabilities and performance that deliver increased power, safety, efficiency and intelligence. Visitors will also get to see how Rexroth technology platforms are tailored to easily integrate and work with each other, allowing manufacturers of different sizes and in different development stages to quickly find effective solutions using groundbreaking drive and working functions and digital business models.

In addition, visitors will have the opportunity to learn full details on major new mobile machine solutions including:

eLION electrification platform: This advanced high voltage portfolio includes a full range of modular systems for the electrification of mobile machinery, including motor-generators, inverters, gearboxes, software and accessories. Developed for the challenging off-highway environment, the portfolio is scalable and supports driving and work functions in a power range from 20 to 200 kW (peak power up to 400 kW) for applications in both compact and heavy machines.

With a newly developed, single-phase onboard charger, Bosch Rexroth has made its eLION platform fully compatible with the North American charging infrastructure.

The eLION motor-generators and inverters are rugged, robust systems that comply with the IP6K9K ingress protection requirements and are engineered to operate across demanding temperature ranges from -40 °C to 85 °C. The shock and vibration resistance of the eLION components is up to 50 g for shock and 10 g for vibration.

Expanded BODAS capabilities: Booth visitors will be able to learn details about two new capabilities recently added to Bosch Rexroth's BODAS digital portfolio of IoT solutions, software and electronic hardware. The new BODAS Connect module enables secure over-the-air updates of control units, regardless of the size of the vehicle fleet or location; it supports all Rexroth controllers and in the future will also work with third-party devices from partners.

The myBODAS platform offers manufacturers of off-highway machines free access to the entire standard portfolio of BODAS software for controlling

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mobile machines. This open access means OEMs can download validated software packages for a range of applications free-of-charge, to test them and adapt them to suit the unique requirements of the machines they are building.

New Experience Automation exhibit: Bosch Rexroth will present an integrated portfolio for the needs-based automation of off-highway machines. The advanced assistance functions for excavators, wheeled loaders and telehandlers include modern sensor systems and intuitive operating devices. These include driver assistance functions for more efficient working virtual walls and critical operating parameter indications for greater work safety. Ready-to-use software modules help to reduce the integration time into existing and future vehicle architectures which speed up market launch.

Bosch Rexroth has joined forces with HydraForce, Booth S80207 to expand their global compact hydraulics business. HydraForce focuses on mechanical and electrical cartridge valves and hydraulic integrated circuits (HIC). This new acquisition allows Bosch Rexroth to offer a wider range of compact hydraulic components and systems.

Hägglunds Quantum: In mining, mobile applications and more, Hägglunds Quantum motors will reshape reality. Get ready to push the envelope in multiple directions. During CONEXPO/IFPE Hägglunds will launch the new Quantum motor. We invite you to stop by our booth to find out more.

CytroBox hydraulic power unit: The modular, energy-efficient CytroBox hydraulic power unit is for medium power applications up to 30 kW. It features a compact design and intelligent IoT capabilities such as open communications interfaces, and integrated sensors provide information regarding the current filter, oil or drive condition.

While at the show stop by **Broderson Manufacturing Corporation – Booth F9441** to see how Rexroth's eLION motor and inverter package is being used on their newly introduced first battery electric powered, zero emissions industrial carry deck crane, the IC^e-80.

Throughout the show, Bosch Rexroth mobile machine and mobile hydraulics technology experts will be available to discuss key details on all the systems and solutions being exhibited. They will also be ready to discuss specific off-

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highway and construction equipment design, engineering and applications challenges with mobile machine builders.

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Our experts can provide new insights and practical recommendations on how to further advance efforts by the off-highway community to apply the latest electrified and digitally networked technologies to advance the performance, versatility and productivity of the next generation of mobile machines.

For more information on Bosch Rexroth and Hägglunds at CONEXPO/IFPE 2023 in Las Vegas, visit <http://www.boschrexroth-us.com/conexpo-ifpe>.

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 31,000 associates generated sales revenue of around 6.2 billion euros in 2021. 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 401,300 associates worldwide (as of December 31, 2021). According to preliminary figures, the company generated sales of 78.8 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

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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 76,300 associates in research and development, of which more than 38,000 are software engineers.

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

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