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PRESS RELEASE

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Emission-free mobility: Bosch Rexroth unveils drive for high-mileage electric vehicles

The new variant enables an electric motor to be used in mobile working machines without altering installation space and gear geometry

Rexroth's eGFT8000: the combination of compact drive and electric motor results in a space-saving drive unit.

The eGFT8000 series is a variant of Rexroth's GFT8000 compact drive launched some time ago. With eGFT8000 compact drives, mobile working machines can use a high-speed electric motor instead of a hydraulic motor. The combination of compact drive and electric motor results in a space-saving drive unit, which serves as a drive component for wheeled or track-mounted vehicles and other mobile equipment.

Bosch Rexroth's emission-free drive is particularly beneficial for vehicles used to construct tunnels and for working machines deployed in enclosed spaces. However, construction machinery used in inner cities as well as agricultural machinery and heavy-duty vehicles can also benefit from the electric drive solution.

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Electromobility is not only revolutionizing passenger and freight transport but also other industries, too. Applications where the drive unit is required to be emission-free are playing a trend-setting role. After all, emissions generated by diesel-powered working machines used in tunnels and other enclosed spaces results in the need for complicated and expensive ventilation solutions. Use of emission-free construction machinery is also becoming increasingly popular in inner cities. Electric drives are the answer – and Rexroth's eGFT8000 drive makes the whole refitting process extremely easy.

High-mileage vehicles often use mechanical planetary gearboxes in order to transfer the torque and the rotational speed between the travel drive and the wheels or continuous track. The challenge that Rexroth's engineers faced primarily consisted in compensating for the performance differences between hydrostatic and electric motors.

The newly developed compact gearbox does not require any extra installation space compared to conventional hydrostatic gearboxes, and at the same time boasts even greater efficiency. An additional planetary stage takes rotational speed and torque to hydraulic motor levels. The gearbox geometry is identical to that used in Bosch Rexroth's already popular GFT8000 drive unit. In terms of its dimensions, the eGFT8000 is exchangeable with the GFT8000 and the flange surface for motor mounting is in the same location. Both gearboxes have the same impressive permissible load.

The eGFT8000 compact three- or four-stage planetary gearbox boasts an integrated multi-disk parking brake and has been perfectly aligned with Bosch's SMG180 electric motor. Delivery of the gearbox and motor together as one drive unit results in logistical advantages for machine manufacturers, and installation is straightforward too.

Potential customers will be able to take a closer look at the robust drive unit at IFPE/ConExpo 2020 at the Rexroth booth S-80215.
www.boschrexroth-us.com/ifpe

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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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