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Short, Light, Efficient: Radial Piston Motor MCR-S

Bosch Rexroth delivers on efficiency with compact radial piston motors for chain drive applications

Rexroth's MCR-S motor offers high efficiency and durability even in high temperature applications

Bosch Rexroth has expanded its range of radial piston motors with the introduction of the MCR-S. Perfectly suited for chain drive applications, the new motor boasts optimized installation design and delivers increased power density along with enhanced starting efficiency and smooth operation.

Mobile construction machines have become increasingly sophisticated. The MCR-S optimally caters to these demands. Delivering a more compact solution, Bosch Rexroth has repositioned the parking brake to the body of the motor, integrated the two-speed shifting spool within the motor distributor and optimized the main port locations. The result is a motor which is up to 33% shorter, 41% lighter and fully optimized for ease of installation and delivers enhanced efficiency without compromising durability.

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Complementing its compact design is the new Rexroth MCR4 frame size – which is specifically developed for motor displacements between 325cc and 470cc – and 9-piston rotary group, contributing to a significantly increased torque density. In addition, the 9-piston rotary group layout helps to limit the maximum vehicle travel speed.

"As mobile construction machines continue to become increasingly complex and sophisticated, we've seen far greater demands for space within the engine compartment, making the motor length a critical design factor," says Gary Whitelaw, MCR Director of Sales at Bosch Rexroth. "With that, our new MCR-S has been specifically engineered to answer these demands – and do so in a way, which doesn't simply answer the need for more space, but also drives greater levels of efficiency throughout its lifetime."

"Of course, in the harsh environments in which these machines operate, durability remains a key focus. That's why, with the Rexroth MCR-S, we've incorporated an enhanced rotary group design to deliver a greater low speed capability. This means increased starting efficiency, delivering high torque even at zero RPM, as well as, being optimized to handle high temperature applications."

Reflecting on the core characteristics of Bosch Rexroth's range of radial piston motors, the MCR-S utilizes low friction properties within the flow passages and rotating elements of the motor to deliver enhanced levels of efficiency. It is these same traits which ensure precise controllability, maximum efficiency and durability, even in high temperature applications.

To learn more on Bosch Rexroth's MRC-S: http://bit.ly/MCR-S

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

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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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