

PRESS RELEASE

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02/27/2023

Ideal for high force requirements in demanding environments: RINEER heavy-duty vane motors from Bosch Rexroth

PI 061/22
For Immediate Use

Highest torque right from the start



RINEER wear-free vane motors from Bosch Rexroth offer the highest torque at every start and in every direction. (Image source: Bosch Rexroth AG)

Bosch Rexroth's RINEER vane motor series offers the highest power density with maximum torque as well as the robustness even under the most adverse climatic conditions and high dirt loads. RINEER vane motors make only low demands on oil cleanliness. They are ideally suited for the construction industry as well as mobile applications such as drilling, winches, conveyors and fan drives.

RINEER motors are particularly robust and provide continuously high starting and stalling torques right from the start. Working vanes in the rotor create uninterrupted output torque regardless of angular position, while sealing vanes in the stator create an effective seal between the high- and low-pressure sections. This allows users to utilize maximum torque even at very low rotations. At the same time, the motor enables maximum speeds and full torque on a continuous basis. Frequent and fast start/stop sequences as well as direction changes are possible at any time without mechanical wear. As a

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result, the RINEER vane motor from Bosch Rexroth offers a long service life with maximum availability.

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The motor family comprises of four series consisting of more than 70 displacement variants and covers a torque range from 248 Nm to 18.718 Nm. Due to their design, the economic motors achieve an optimum power-to-weight ratio with very high power density and lower noise emissions. The compact direct drive can replace otherwise necessary gearboxes due to the wide torque and speed range and requires fewer components than conventional solutions. A variety of optional features, including bearing options to handle application loads, make Bosch Rexroth's RINEER one of the most versatile hydraulic motors available.

Worldwide application experience in mobile applications demonstrate the extreme robustness of RINEER motors, even under the most adverse climatic conditions and high dirt loads. They are frequently used in the construction sector, for example for drillings and winch applications. The vane motor is insensitive to oil contamination. Optionally, air, water or drilling fluid can even be fed through a hollow shaft in the motor without contaminating the fluid.

For more information on our High Torque Vane Motors:

<https://www.boschrexroth.com/en/us/products/product-groups/industrial-hydraulics/topics/motors/>

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 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 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. To learn more, please visit www.boschrexroth-us.com.

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About Bosch:

The Bosch Group is a leading global supplier of technology and services. It employs

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roughly 428,000 associates worldwide (as of December 31, 2023). According to preliminary figures, the company generated sales of 91.6 billion euros in 2023. 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 90,000 associates in research and development, of which roughly 48,000 are software engineers. Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com.

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