

## PRESS INFORMATION

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

Manuela Kessler | 06.09.2022 | Lohr am Main / Germany | PI 045/22

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)

**The RINEER vane motor series from Bosch Rexroth, which was previously used primarily in North America, is now available worldwide. The 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. The vane motor makes only low demands on oil cleanliness. In the U.S., the motors have primarily been used in maritime and offshore applications, but they are also used in oil and gas production and numerous other heavy-duty applications.**

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

The motor family comprises 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.

Many years of application experience in North America demonstrate the extreme robustness of RINEER motors, even under the most adverse climatic conditions and high dirt loads. They are frequently used in the maritime sector, for example for winches, as well as in the offshore industry in jack-up and drilling applications. The vane motor is insensitive to oil contamination.

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Optionally, air, water or drilling fluid can even be fed through a hollow shaft in the motor without contaminating the fluid.

Bosch Rexroth at the SMM in Hamburg: Hall A1 Booth 424

### 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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