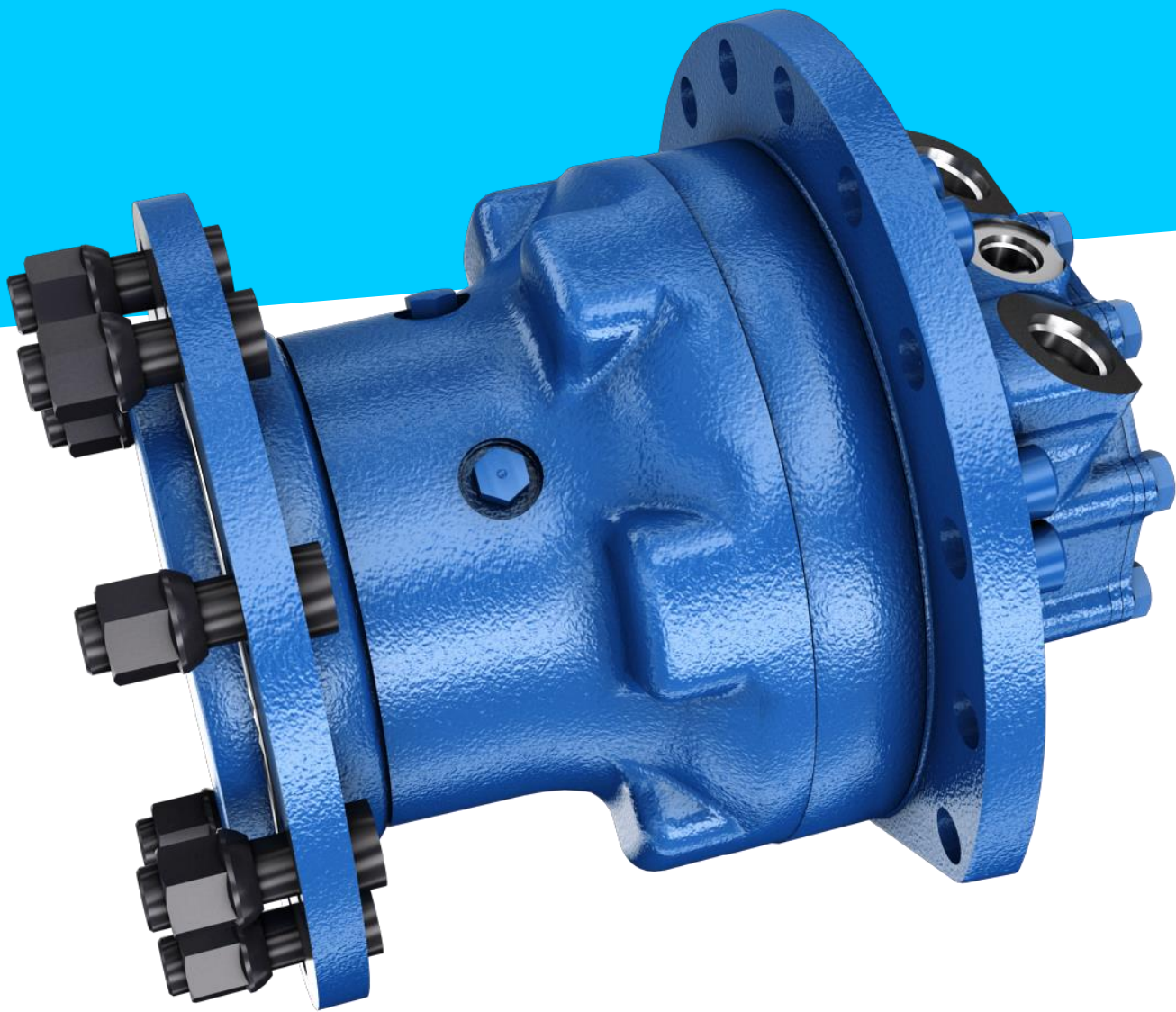


Radial piston motor MCR-W

for heavy duty wheel drives

High radial load capacity and high efficiency



The Rexroth MCR-W radial piston motor is designed to withstand the most demanding conditions in different applications such as fork lift trucks, construction, agricultural and forestry machines. Fitted with stronger shaft and bearings, the Rexroth MCR-W provides up to 60 percent increase in radial load capacity compared to standard MCR-F radial piston motors. The motor is designed with rear case mount for ease of installation. Rexroth MCR-W motors are developed for wheel, roller and drum drives and can be used in both open and closed circuits. The integrated shaft flange, with optional wheel studs and nuts, is available in a range of options to suit standard wheel rims.

CUSTOMER BENEFITS

- Up to 60% increase in radial load capacity compared with standard radial piston motors
- High volumetric and mechanical efficiency
- Increased starting efficiency and smooth rotation
- High temperature range capability
- Wide range of optional features

FUNCTION AND BENEFITS

Up to 60% increase in radial load capacity

The Rexroth MCR-W design utilizes the shaft and bearings of the next largest motor frame size. This hybrid design ensures the most compact and cost efficient package, whilst providing an extremely robust solution for the most demanding operating conditions.

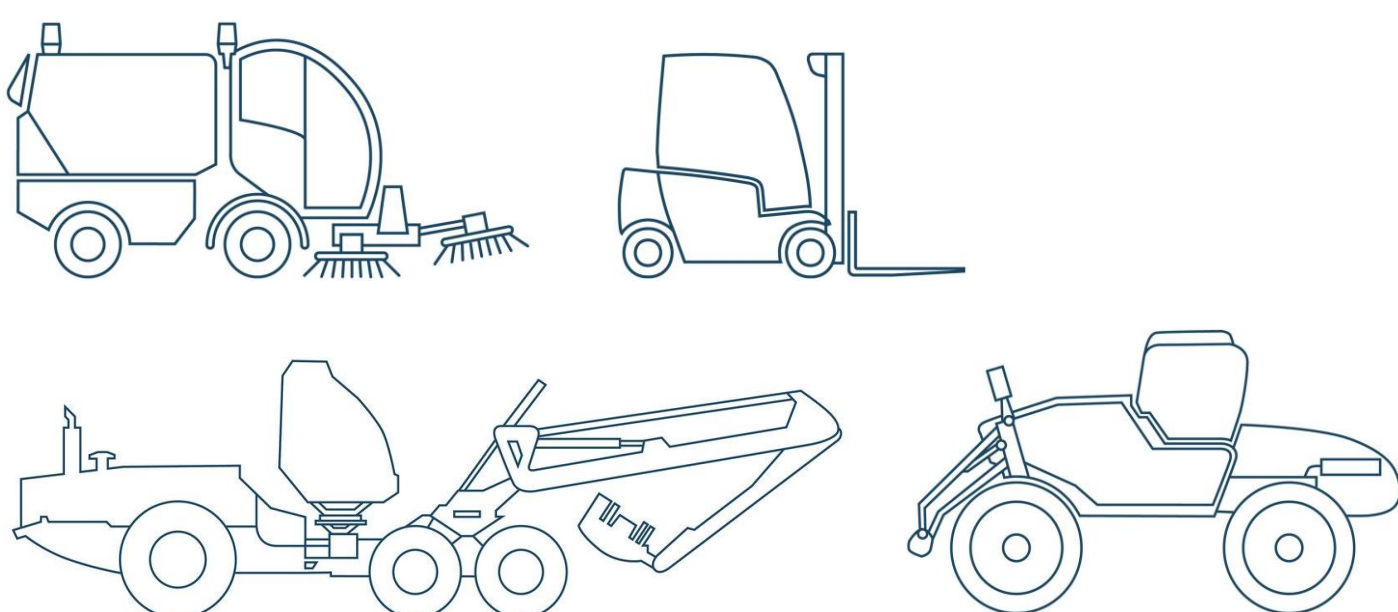
High volumetric and mechanical efficiency

High levels of volumetric and mechanical efficiency are required in order to ensure that fuel economy is maximized and total costs of ownership are kept to a minimum. Rexroth MCR-W radial piston motors have an optimized design of sealing and low friction properties within the flow passages and rotating elements of the motor, which result in exceptional levels of efficiency.

Increased starting efficiency and smooth rotation

The direct drive characteristics of the Rexroth MCR-W ensure very precise controllability, with smooth operation and high torque, even with shaft speeds as low as 0.5 rpm. The low speed capability is realized through an enhanced rotary group design, which has also been optimized for high temperature applications, and ensures maximum efficiency without compromising on durability. Increased starting efficiency of the motor delivers high torque at zero rpm, allowing downsizing of components, reducing overall cost of ownership and increasing productivity.

APPLICATIONS



Radial piston motor MCR-W
for heavy duty wheel drives. Up to 60% increase in radial load capacity

TECHNICAL DATA

Radial piston motor MCR-W	
Frame sizes:	3, 5, 6, 10
Speed:	up to 875 rpm
Maximum pressure:	up to 470 bar
Torque output:	up to 8530 Nm
Displacement options:	160 cc to 1340 cc
Optional features:	Bi-directional two speed Parking brake Integrated case flushing Integrated speed and direction sensor
Data sheet:	15200

EXPLORE MORE



MCR-W

High temperature range capability

A patented breakthrough tribological development in rotary group design of the Rexroth MCR-W delivers an increase in starting efficiency, with industry leading durability and resistance to high temperatures, in the most demanding applications. This means that system cooling requirements can be kept to a minimum, reducing overall system costs. Furthermore, high levels of MCR-W motor durability prevent unplanned maintenance and increase the productivity of mobile working machines.

Wide range of optional features

Bosch Rexroth has many years of experience in developing and producing high quality radial piston motors. This expertise has been incorporated into the development of the range of optional features, thus allowing the customer to easily tailor the Rexroth MCR-W to meet their specific application requirements.

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