

Press Release

New variable motor from Rexroth cools and cleans without additional valve

Integrated reversing function and up to 16 % less installation length

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- ▶ Reversing operation without additional components
- ▶ Up to 16 % shorter than customary products
- ▶ Efficiency of the hydrostatic fan drive increased



The axial piston variable motor A10VER was especially developed for fan drives in mobile working machines.

With the new axial piston variable motor A10VER manufacturers of construction, agricultural and forestry machinery can achieve compliance with exhaust emission values with low system costs and less installation space for the hydrostatic fan drive. For applications with high dirt and dust loads, it offers a cleaning function for coolers via reversing operation without additional components.

In order to comply with the exhaust emission limits of TIER 4 final or Stage IIIb and IV, the manufacturers of mobile working machines must also adapt the engine management of diesel engines in addition to exhaust gas after-treatment. However, this means increased cooling capacity requirements, since the temperature window for optimum engine operation is strongly reduced. At the same time, the cooling capacity must be available independent of the diesel engine speed. Hydrostatic fan drives from Rexroth provide an energy efficient solution which also has the necessary robustness.

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The new axial piston variable motor A10VER reduces the system costs, since it offers a reversing function without the necessity of an additional valve to be piped. The motor changes the direction of rotation of the fan during running operation. By reversing the air flow, dirt, dust or plant parts are removed from the cooling fins. Even under the harsh everyday conditions of construction, agricultural and forestry machinery the full cooling capacity is maintained. Since there is no additional reversing valve, the efficiency of the hydrostatic fan drive is also increased. This leads to fuel savings in the mobile working machine.

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Due to the components for exhaust cleaning, the manufacturers of mobile working machines have less installation space to work with. While developing the new axial piston variable motor A10VER, Rexroth met the need for even more compact dimensions. The axial piston variable motor A10VER in the sizes 30 ccm, 37 ccm and 45 ccm is up to 16 % shorter than customary products. Rexroth is already developing further sizes. The motor can be seamlessly integrated into the system solutions for hydrostatic fan drives from Rexroth such as the axial piston variable pump A1VO and A10VO, the BODAS RC control units from the series 30 and the Software Automatic Fan Control AFC30.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, Factory Automation, and Renewable Energies to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 33,700 associates generated sales revenue of approximately 5.6 billion euros in 2014.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 360,000 associates worldwide (as per April 1, 2015). The company generated sales of 49 billion euros in 2014. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including its sales and service partners, Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2014, Bosch applied for some 4,600 patents worldwide. The Bosch Group's strategic objective is to create solutions 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."*

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**The sales figure disclosed for 2014 does not include the former joint ventures BSH Bosch und Siemens Hausgeräte GmbH (now BSH Hausgeräte GmbH) and ZF Lenksysteme GmbH (now Robert Bosch Automotive Steering GmbH), which have since been taken over completely.*

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