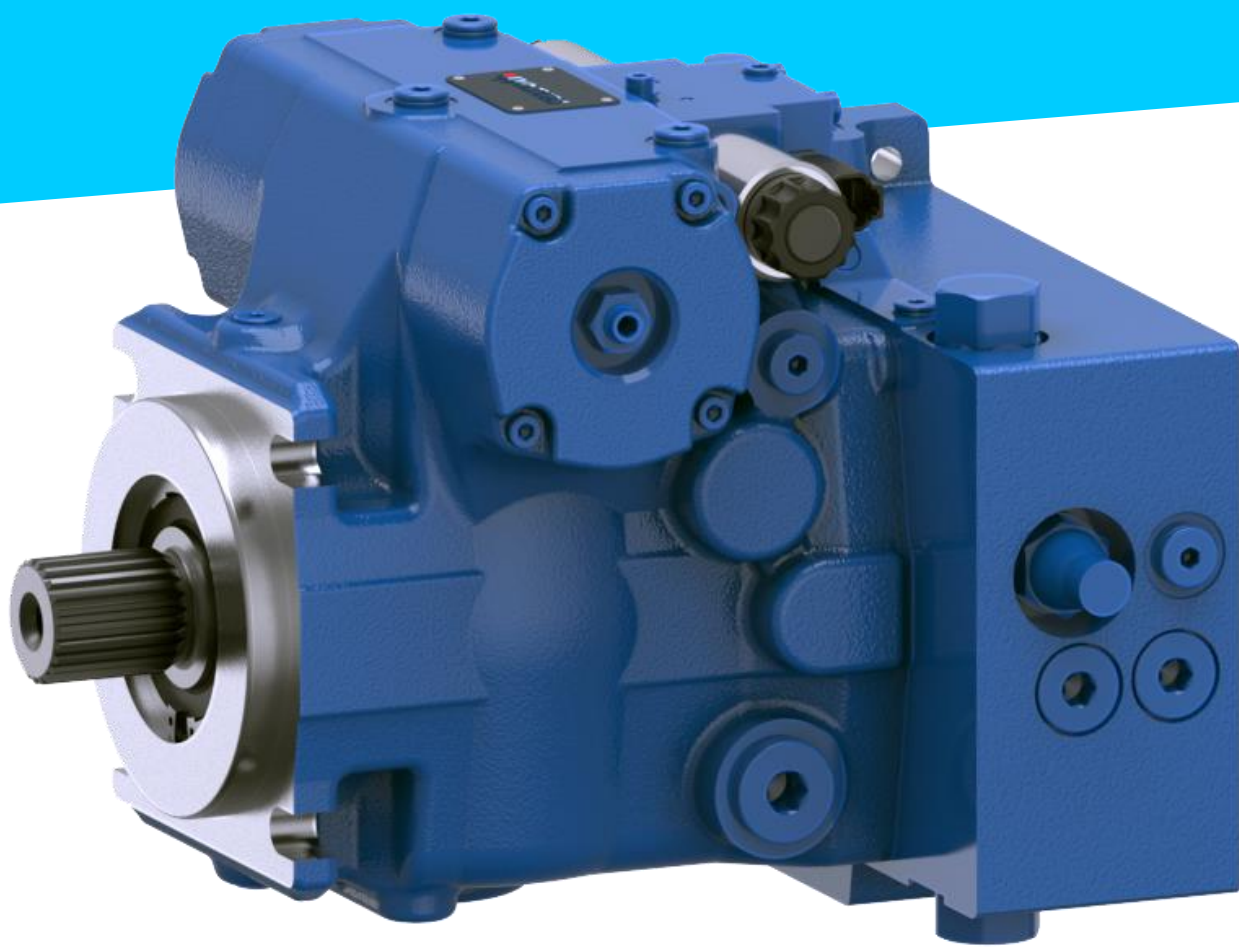


Axial piston variable pump A4VGM series 32

Modular high-pressure pump with high power density



In the field of agricultural, forestry and construction machines, flexibility and modularity of pump concepts are steadily gaining in importance. Manufacturers want to react quickly to the various requirements and ask for both reliable and versatile axial piston variable pumps to be able to meet the demands. With its modular design and proven swash plate technology, the new Rexroth axial piston variable pump A4VGM series 32 meets the requirements of future traction drives. OEM's can quickly and flexibly implement different customer requirements with tailor-made solutions.

CUSTOMER BENEFITS

- Modular design with same dimensions
- Compact design
- High power density
- Covering speed peaks
- High compatibility and flexibility
- Proven technology and harmonized all-in-one solutions

FUNCTION AND BENEFITS

Modular design with same dimensions

The Rexroth axial piston variable pump A4VGM series 32 is available in three sizes: 71 cm³, 90 cm³ and 105 cm³. All sizes have an identical housing with same dimensions. This allows the A4VGM to be used in different performance and vehicle classes.

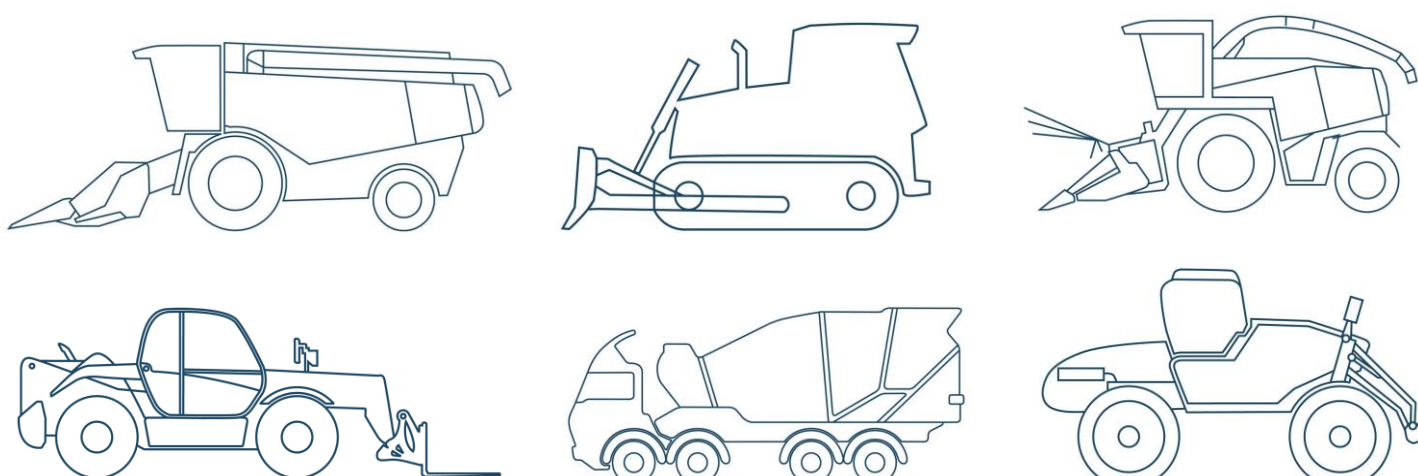
Compact design

Various components were optimized during the development of the new Rexroth A4VGM series 32. As a result, the size 105 cm³ fits into the housing of the significantly smaller size with 71 cm³. This means that especially the size 105 cm³, is very compact with high performance compared to other axial piston variable pumps available on the market. The Rexroth A4VGM series 32 has a full drive through capability to realize solutions with multiple pumps.

High power density

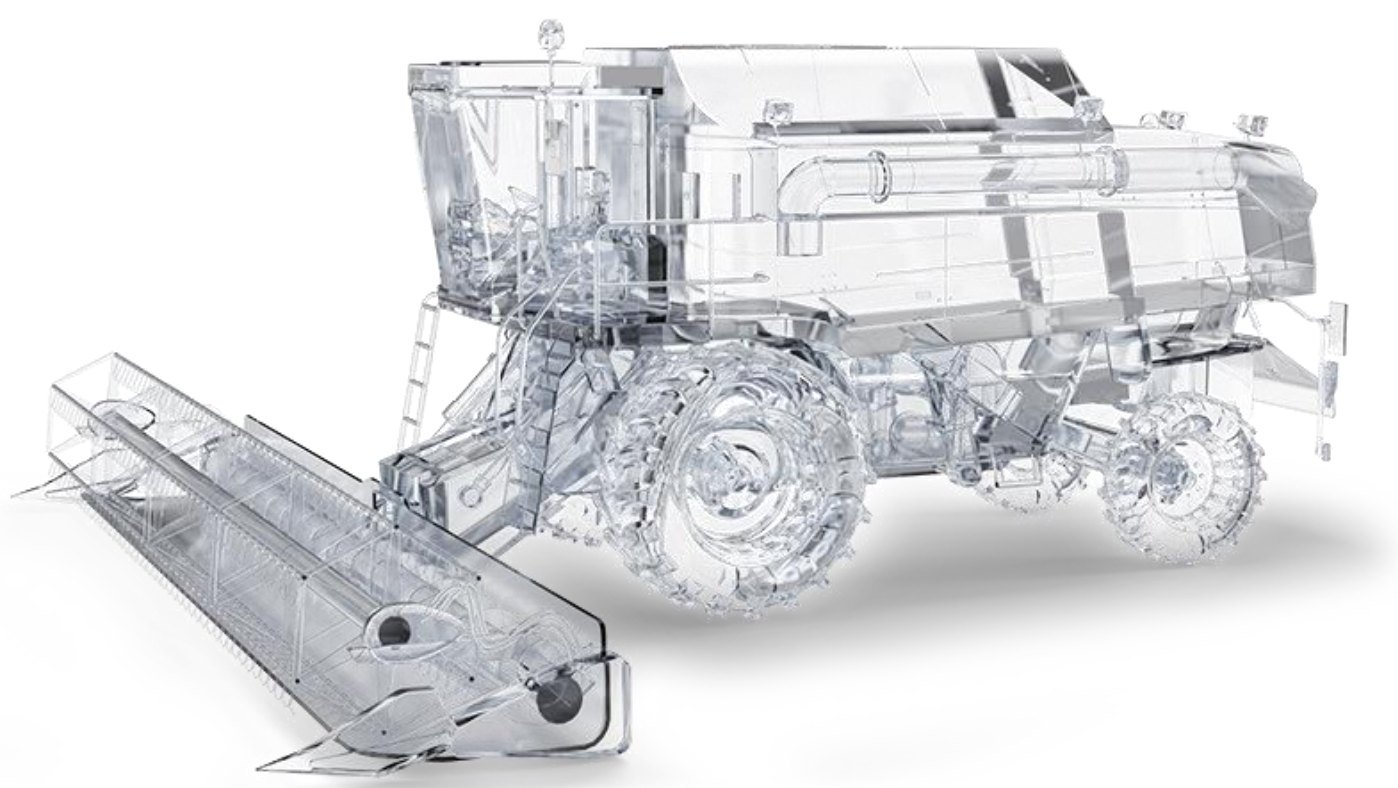
Optimized design of the components, such as the drive unit and port plate, further increased the power density of the proven Rexroth pump A4VG series 32. As a result, pressure levels of up to 530 bar can be achieved with the new axial piston variable pump A4VGM series 32.

APPLICATIONS



TECHNICAL DATA

Axial piston variable pump A4VGM series 32			
Sizes:	71 cm³	90 cm³	105 cm³
Maximum rotational speed (at V _{g max})	3350 rpm	3050 rpm	2900 rpm
Maximum pressure:	450/530 bar	450/530 bar	450/500 bar
Nominal pressure:	400 bar		
Port plate:	180° rotatable		
Control devices:	- HW – Proportional control, hydraulic, mechanical servo - EP – Proportional control, electric		
Mounting flange:	SAE J744 (SAE-C 4-holes)		
Optional features:	- Attachment filter 100% through drive capability - High-speed version (3350 rpm) available on request for nominal size 90		
Data sheet:	92016		



Rexroth A4VGM series 32 for efficient travel drives.

Covering speed peaks

Size 90 cm³ is also available as a high-speed version with 3350 rpm on request. This pump version can cover speed peaks occurring at the pump for short periods and meets these demanding requirements. Speed peaks can occur when operating agricultural machines at higher speed gear ratios.

High compatibility and flexibility

Standardized positions and interfaces for ports, mounting flange and drive shaft splines reduce the engineering effort for vehicle manufacturers. The high-pressure port as well as the suction port can be positioned on one side for simplified accessibility. This is also possible in combination with an attachment filter. The flexible arrangement of the suction port and the 180° rotatable port plate allow installation of the Rexroth A4VGM variable pump even in the most difficult installation spaces.

Proven technology and harmonized all-in-one solutions

The Rexroth axial piston variable pump A4VGM series 32 is based on the proven swash plate design. In combination with the highly efficient Rexroth A6VM and A2FM hydraulic motors and corresponding BODAS software, Bosch Rexroth offers complete travel drives. All components are harmonized with each other and enable the OEMs an efficient overall design of the mobile working machines.