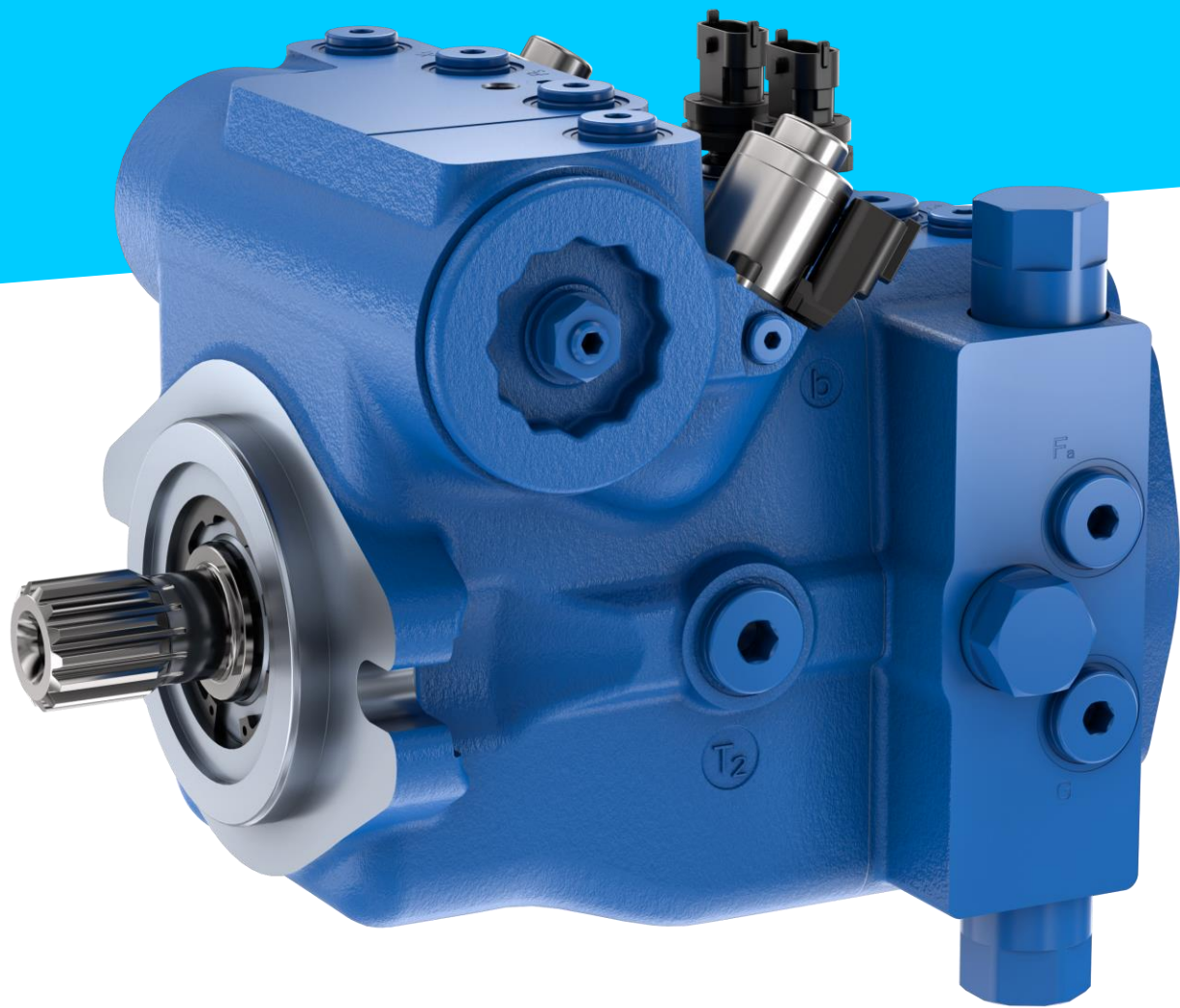


Axial piston variable pump A4VG series 60

Electronified high-pressure unit for mobile machines

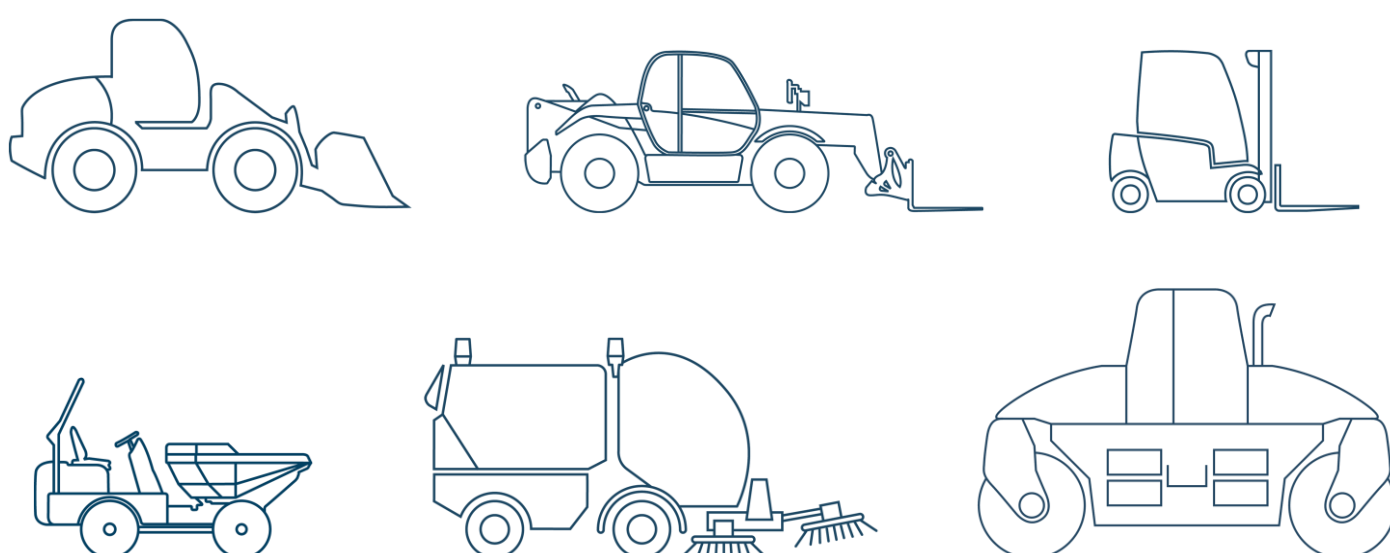


Almost all manufacturers of compact construction machines, agricultural and forestry machines and materials handling vehicles are increasingly developing new travel drive concepts with higher operating pressures and electronic control. The aim is to reduce fuel consumption and emissions while at the same time extending the functionality of mobile machines. The new Rexroth axial piston variable pump A4VG series 60 fulfils these demanding requirements. It specifically combines the control valves with integrated sensors.

CUSTOMER BENEFITS

- Compact design thanks to high power density
- Numerous functionalities
- Higher productivity due to adjustable pump dynamics
- Integrated sensors for electronic drives
- Reduced development effort for vehicle manufacturers

APPLICATIONS



FUNCTION AND BENEFITS

Compact design thanks to high power density

The Rexroth axial piston variable pump A4VG series 60 is characterized by its compact design and high power density. The design and pump characteristics have been optimized on the basis of load collectives. With a nominal pressure of 400 bar and a maximum pressure of 530 bar, it meets the requirements of machine manufacturers for higher pressure levels.

Numerous functionalities

The focus of the Rexroth A4VG series 60 is an innovative and modular control concept. The combination of control valves, sensors and customized software enables a wide range of functionalities to meet specific requirements. These include pressure control, pressure cut-off, precise swivel angle control and regulation as well as exact calibration.

Higher productivity due to adjustable pump dynamics

The adjustable pump dynamics in the BODAS software enable the hydraulic power to be continuously and dynamically adapted to the available performance. This enables very precise work functions which increase the overall productivity of the mobile machine.

TECHNICAL DATA

Axial piston variable pump A4VG series 60	
Sizes:	45 cm ³
Nominal pressure:	400 bar
Maximum pressure:	530 bar
Working ports:	SAE flange ports arranged laterally
Control devices:	Electric control, direct operated, optionally with integrated pressure reducing or switching valves
Optional features:	Pressure and swivel angle sensor Sequence valve Large boost pump 100% drive-through capability Flushing valve (flange version)
BODAS software:	BODAS-drive eDA eCC BODAS pump control
Data sheet:	92038 (in preparation)



Integrated sensors for electronic drives

The integrated sensors and the optional sequence valve simplify the electronification of closed-circuit travel drives. The Rexroth A4VG series 60 supports the ever closer networking of motor and machine control with the travel drive. In addition, it is based on the proven control concept of the series 35.

Reduced development effort for vehicle manufacturers

The A4VG axial piston variable pump is optionally available as a single component with or without eCC BODAS pump control for integration into the travel drive by the customer. The A4VG series 60 can be optimally combined with Rexroth axial piston motors.
The A4VG is optimized for interaction with the BODAS-drive eDA software. In addition to the predefined basic functions, further comprehensive functions can be unlocked. This minimizes the engineering and programming effort for vehicle manufacturers. Usually only vehicle-specific parameters need to be defined in the software.