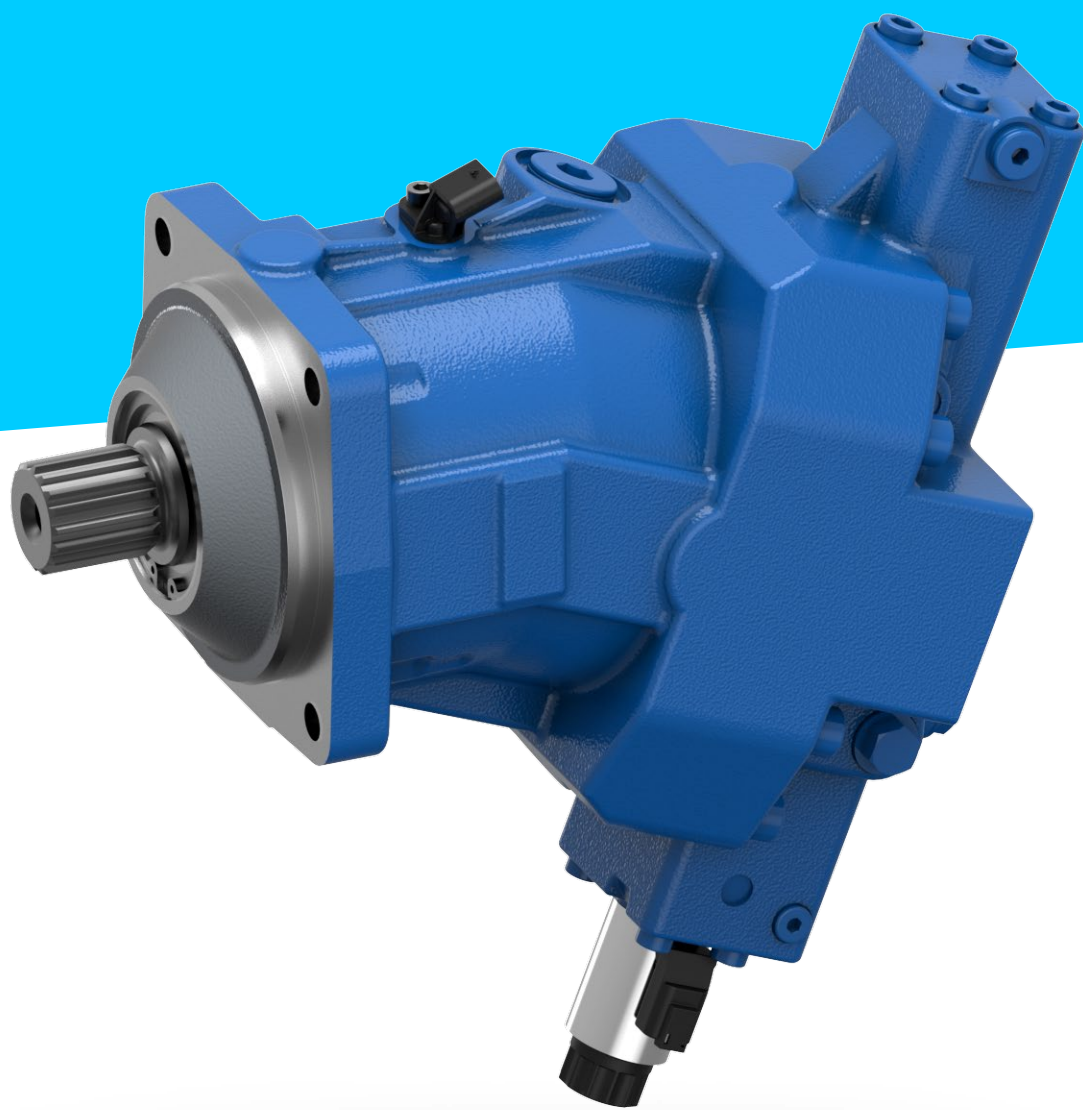


# Axial piston variable motor A36VM

High tractive force and travel speed



The requirements in regard to speed, tractive force and efficiency of mobile working machines are increasing - both when driving on the road and at the work site. The Rexroth A36VM axial piston variable displacement motor is an excellent solution for mobile working machines with electronically controlled, hydrostatic travel drive. It combines the advantages of the proven Rexroth A6VM motor and offers higher tractive force and travel speed thanks to a larger conversion range. The Rexroth axial piston variable motor A36VM is suitable for a wide range of different applications.

## CUSTOMER BENEFITS

- Higher tractive force and speed
- Optimized swivel range for different vehicle classes
- High reliability based on proven A6VM quality
- Adjusted geometry for limited installation space
- Wide range of additional functions thanks to BODAS eDA travel drive software

## FUNCTION AND BENEFITS

### Higher tractive force and speed

The maximum pressure of the Rexroth axial piston variable motor A36VM has been increased to 530 bar and the swivel range extended to up to 38°. The increased conversion range enables the electronically controlled hydrostatic travel drive to convert the diesel power into significantly increased tractive force and speed with high efficiency.

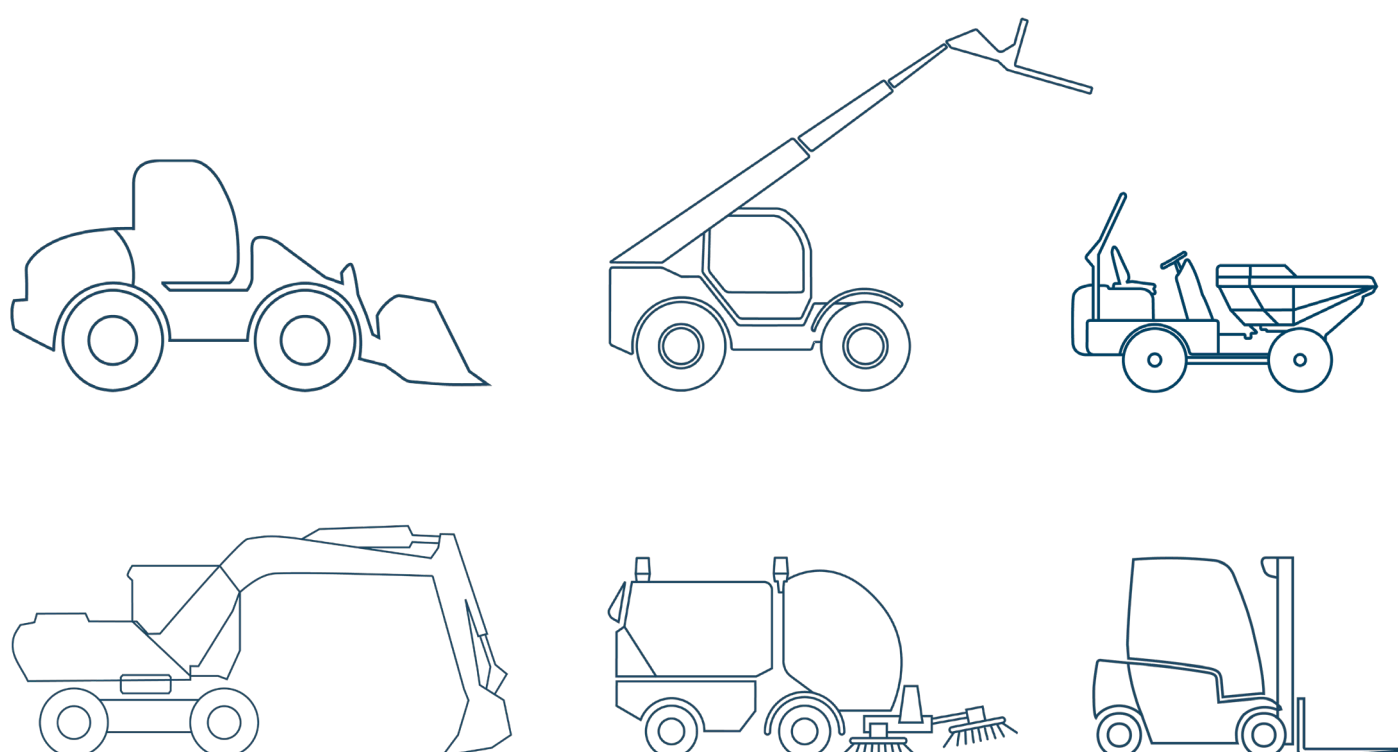
### Optimized swivel range for different vehicle classes

The different vehicle sizes of construction machines, agricultural machines and municipal vehicles place different requirements on the characteristics of the drive hydraulics. The new Rexroth axial piston variable displacement motor A36VM meets these requirements with a wide conversion range and a swivel range optimized for the specific application. For the size 125 cm<sup>3</sup> this is 5°-38° and for the size 255 cm<sup>3</sup> the range of 5°-36° is possible.

### High reliability based on proven A6VM quality

The Rexroth axial piston variable motor A36VM is based on the Rexroth A6VM motor, which has been used in many applications for over 30 years. This is shown, among other things, in the proven and robust bent axis technology as well as in the continuation of the electric proportional control for electronic travel drives.

## APPLICATIONS



Axial piston variable motor A36VM  
High tractive force and travel speed

TECHNICAL DATA

Axial piston variable motor A36VM		
Sizes:	125	255
Displacement $V_{g\ max}$ [cm³]:	126,4	253,2
Displacement $V_{g\ min}$ [cm³]:	17,8	37,5
Max. rotational speed $n_{nom}$ [rpm]: at $V_{g\ max}$	2560	2050
Max. rotational speed $n_{max}$ [rpm]: at $V_g < 0,3 \times V_{g\ max}$	5000	4000
Nominal pressure $p_{nom}$ [bar]:	450	450
Maximum pressure $p_{max}$ [bar]:	530	530
Working ports:	SAE at the rear	
Control device:	Proportional electric control (EP)	
Data sheet	91650	



The Rexroth A36VM is suitable for a wide range of different applications.

EXPLORE MORE



A36VM

Adjusted geometry for limited installation space

The installation space available for hydraulic components in mobile working machines is becoming increasingly small. For this reason, the external dimensions, contour design, valve mounting and position of the sensor system of the Rexroth axial piston variable displacement motor A36VM have been optimized for limited installation space. As a result, the variable motor can be integrated into the installation space between the cardan shaft, vehicle frame and axle despite the extended swivel range. The Rexroth A36VM is also available as a plug-in version.

Wide range of additional functions thanks to BODAS eDA travel drive software

The combination of the A36VM variable motor with the BODAS eDA travel drive software from Bosch Rexroth offers additional advantages. The hydrostatic travel drive and the combustion engine of the mobile working machine can be optimally adapted to each other with regard to performance and fuel consumption. The BODAS travel drive software offers integrated diesel overspeed protection, overheating protection and diesel load limiting control to extend the service life of the machine. Comfort functions, comprehensive diagnostic options and defined emergency operation strategies are also available. Drive modes adapted to the specific application allow load-sensing or proportional driving, aggressive acceleration and sensitive positioning.