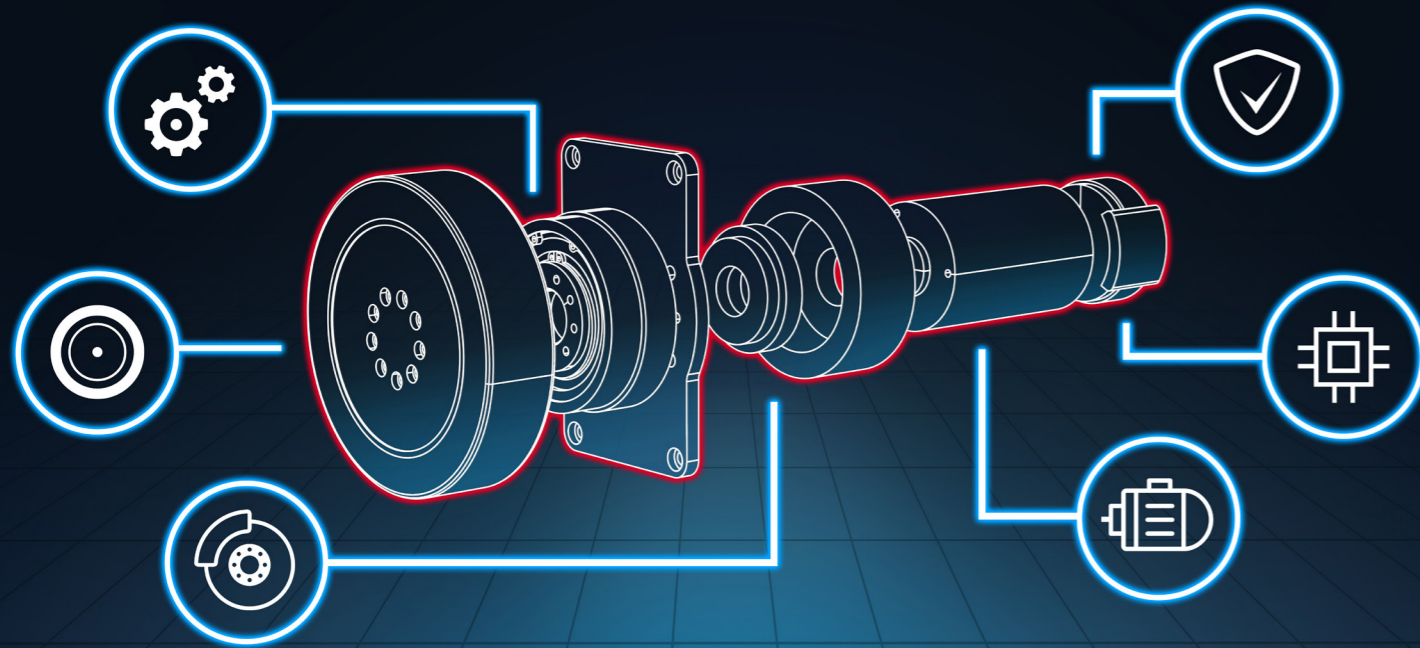


Rexroth ROKIT Motor

Your 6-in-1 Wheel Drive Module



REDUCE YOUR DEVELOPMENT EFFORT

- ▶ Reduces the workload of development, production and maintenance
- ▶ Small installation space
- ▶ Integrated functional safety
- ▶ Single-source solution
- ▶ Reduced complexity saves time

The ROKIT Motor by Bosch Rexroth is a complete, highly integrated and ready-to-use wheel drive module for mobile robots, like differential-driven vehicles for payloads of up to one ton. The module, consisting of wheel, planetary gear box, safety and parking brake, motor, safety encoder and motion controller, significantly reduces the workload in procurement processes as well as in development, production and maintenance – thus ensuring efficient operation and a focus on the features that differentiate you from others.

Highly integrated into your vehicle

The high-quality individual components are coordinated with each other and proven in many application areas. Integrated functional safety is ensured.

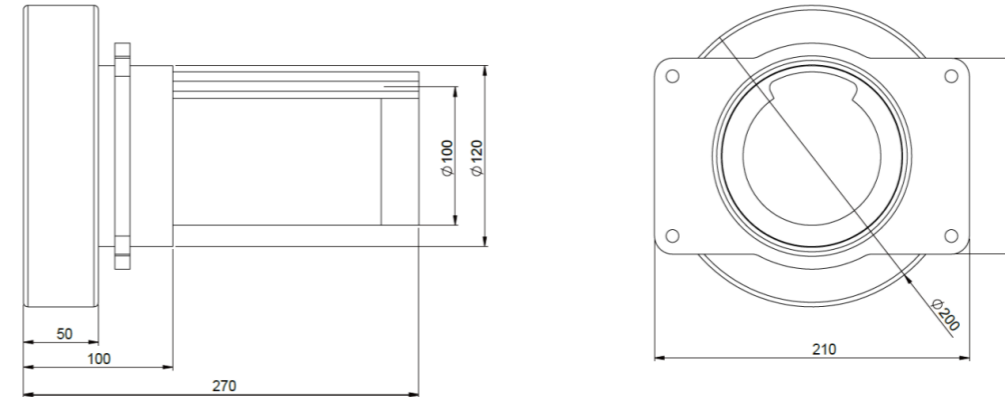
Specifically designed for mobile robots

The ROKIT Motor is tailored to the performance profile of AGVs and AMRs and comes with proven Bosch Rexroth quality and technology. All components offer optimum robustness for your mobile robots.

FOR YOUR MOBILE ROBOTS

- ▶ High quality: Rexroth – Drive & Control proven
- ▶ Specially designed for mobile applications
- ▶ Easy applicability
- ▶ ROS2 driver supplied

ROKIT Motor Technical Data



General	Specification
IP protection class	IP64
Lifetime	95,000 km
Safety standard	ISO 13849 PL d
Power supply voltage	Nominal 48 VDC (range 18 ... 60 VDC)
Temperature range	-20 to 70°C
Vibration resistant	According to DIN EN 60068
Shock resistant	According to DIN EN 60068
Wheel	Specification
Wheel diameter	200 mm
Nominal drive speed	2 m/s
Nominal torque	30 Nm
Peak torque	100 Nm
Nominal power	800 W
Peak power	1,000 W
Material	Vulkollan 92 Shore A
Gear box	Specification
Type	Planetary
Safety and parking brake	Specification
Wheel holding torque	100 Nm
Active at STO (safe torque off)	Yes
Motor	Specification
Type	PMSM, brushless
Encoder	Specification
Integrated safety	Yes
Positioning accuracy wheel	50 arcmin
Motion controller	Specification
Safe torque off	SIL3 and PLd
CANopen	DS301 with DS402 device profile
ROS2 interface	Yes



Have we sparked your interest?

Please contact us at robotics@boschrexroth.de and discover the ROKIT Motor.