

E-Mobility Solutions for Heavy Duty Unmanned Ground Vehicles - UGVs

*Your gateway to zero emission*



Among the key components of an EV, the electric motor plays a critical role in determining its performance and efficiency. In recent years, Permanent Magnet Synchronous Motors (PMSM) and their controllers have emerged as the preferred choice for e-mobility applications.

Radial and axial flux PMSM motors are the ideal choice for e-mobility applications because of their high efficiency, power density, variable speed capability, and low maintenance requirements. They are also compatible with a wide range of battery technologies, which makes them flexible and adaptable to different types of EVs.

Maximum Values of 5 X XXX XXX			
Max. Supply Voltage	XX V. DC	Maximum Torque	190 Nm.
Max. Speed	XXXX rpm	Maximum Current	XXX A.

Motor Specs		
Nominal Speed	5600	rpm
Nominal Torque	55	Nm.
Nominal Current	130	A.
Nominal Power	32	kW.
Peak Power		kW.
Supply Voltage		V. DC
Efficiency		%
Number of Phase		
Voltage Constant		V / krpm
Torque Constant		Nm./A.
Resistance		ohm
Inductance		mH.
Number of Poles		

Gear Box Specs		
Number of Stage	2	
Reduction Ratio	23,88	
Efficiency	93	%
Nominal Torque	1.600	Nm.
Max. Torque	4.000	Nm.
Axial Load	9.000	Nm.
Radial Load	45.000	Nm.

- **Liquid Cooling**
- **IPXX Protection**
- **Interface for Brake**
- **XXX Thermal Protection**
- **Encoder or Resolver Feedback**

Motor Controllers are available on request