



TC4WheE1

The wheel motor system

The wheel motor system is based on the brushless servo motor technology of the TC4 series, offered in the "Single Cable" version, which integrates an advanced encoder system and provides various feedback options, including Safety DSL and Safety Endat 3. This technology ensures reliable and secure communication while simplifying cabling. Alternatively, a Resolver option is also available for more demanding environments. The servo motor comes in the "eXtreme" version, designed and built to operate in extreme temperatures from -40°C, ensuring stable performance even in challenging environmental conditions.

Wheel diameter	160mm	200mm	250mm
Motor Nominal Power	200-400W	400-750W	1kW-2kW
Motor Nominal voltage	48Vdc	48Vdc	48/96Vdc
Motor speed (gearbox input)	4500Rpm	4000Rpm	3500Rpm
Nominal torque gearbox	44 Nm	130Nm	260Nm
Payload (cont. Duty)	350 kg	675 kg	1075 kg
Gearbox ratio	9 - 64	9 - 64	9 - 64
Motor nominal torque	0.64-1.27Nm	1.27-3.18Nm	3.18-6.37Nm
Motor flange	60x60mm	80x80mm	100x100mm
Feedback	Hiperface safety DSL multi-turn EnDat 3 Safety multi-turn Resolver		



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