

Safety Wheel Drive



√ ez-Wheel[®] ezSWD150IH.25x/C-x - SWD[®] 150 √ world's first Safety Wheel Drive for AGVs / AMRs √ suitable for:

- industrial transfer
- low-speed transfer
- AGV / AMR

Component specifications

Motor

Technology	BLDC PM
Gearbox	2-stages planetary ratio 25:1
Indicative lifespan*	5 000 h / 8 000 km 1 500 000 starts/stops
Nominal speed	56 rpm
Nominal power	185 W (S1)
Peak torque	63 Nm

Battery (option)

Electrochemistry	Li-ion high power
Energy	100 Wh
Indicative lifespan*	2-3 years
Recharge mode	Charger External power
Minimum charging time*	0.7 hour (to 80%)



Technical characteristics

Diameter	150 mm
Type of Tyre	PU 92 sh.A - Flat profile
Speed range (traction)	0 to 2.1 km/h
Peak pushing effort	84 daN Moves 2 100 kg
Nominal performance	42 daN at 1.6 km/h
Maximum vertical load	700 kg
Battery capacity	100 Wh
Nominal voltage	24 VDC
Option(s)	Internal battery Parking brake /B

Safety features

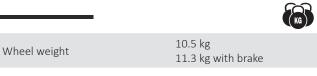
	CANopen OOC safety OCC
Motor disconnection	STO SIL3/PLe
Motion control	SLS, SDI, SMS, SIL2/PLd
Braking	SBC SIL2/PLd
Encoder	750 ppr SIL2/PLd
Interface	CANopen Safety®

Conditions of use

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Temperatures	0 to +40 °C
IP index	IP66 (electronic housing)
Maintenance period*	5 years / 2-3 years for battery

The wheel can be used inside or outside, over a wide range of temperatures. The components - including the battery - do not need any inspection or maintenance over the product's whole lifespan.

Weight



Thanks to the reinforced cast iron housing and wheel hub, the wheel can withstand knocks and severe vibration and enables the wheel to carry some load.

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All values are subject to changes without prior notice.

*: Values for reference, based on standard condition testing, may vary with different application cases. *: Internal battery life time may vary with cycling conditions

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