

ezSWD150IH.14/C



- ✓ ez-Wheel® ezSWD150IH.14/C - Series SWD®
- ✓ world's first Safety Wheel Drive for AGVs / AMRs
- ✓ suitable for:
 - mobile robotics
 - AGVs
 - AMRs



Technical characteristics

Diameter	150 mm
Type of Tyre	PU 92 sh.A - Flat profile
Speed range (traction)	0 to 3 km/h
Peak pushing effort	60 daN Moves 1 500 kg
Nominal performance	22 daN at 3 km/h
Maximum rolling speed	4 km/h
Maximum vertical load	700 kg up to 3 km/h
Battery capacity	100 Wh
Nominal voltage	24 VDC
Option(s)	Internal battery Parking brake /B

Component specifications

Motor



Technology	BLDC PM
Gearbox	2-stage planetary ratio 14:1 exact value (63/17) ²
Indicative lifespan*	5 000 h / 15 000 km 1 500 000 starts/stops
Nominal speed	107 rpm (3 km/h)
Nominal power	185 W (S1)
Peak torque	45 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%)

Safety features



Motor disconnection	STO SIL3/PLc
Motion control	SLS, SDI SIL2/PLd
Braking	SBC SIL2/PLd
Encoder	412 ppr SIL2/PLd
Interface	CANopen Safety®

Conditions of use



Temperatures	0 to +40 °C
IP index	IP66
Maintenance period*	2 years

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



Wheel weight	12 kg
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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.

All values are subject to changes without prior notice.

*: Values for reference, based on standard condition testing, may vary with different application cases.

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