



✓ ez-Wheel<sup>®</sup> ezSWD150IH.14x/C-x - SWD<sup>®</sup> 150
✓ world's first Safety Wheel Drive for AGVs / AMRs
✓ suitable for:

- mobile robotics - AGVs - AMRs

## **Component specifications**

#### Motor

Technology	BLDC PM
Gearbox	2-stages planetary ratio 14:1
Indicative lifespan*	5 000 h / 15 000 km 1 500 000 starts/stops
Nominal speed	100 rpm (2.9 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%)



# **Technical characteristics**

Diameter	150 mm
Type of Tyre	PU 92 sh.A - Flat profile
Speed range (traction)	0 to 3.7 km/h
Peak pushing effort	60 daN Moves 1 500 kg
Nominal performance	23 daN at 2.9 km/h
Maximum vertical load	700 kg
Battery capacity	100 Wh
Nominal voltage	24 VDC
Option(s)	Internal battery Parking brake <b>/B</b>

# **Safety features**

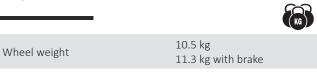
	CRNOPER COC
Motor disconnection	STO SIL3/PLe
Motion control	SLS, SDI, SMS, SIL2/PLd
Braking	SBC SIL2/PLd
Encoder	412 ppr SIL2/PLd
Interface	CANopen Safety®

# **Conditions of use**

Temperatures	0 to +40 °C
IP index	IP66 (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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