



✓ ez-Wheel[®] ezSWD150IH.14x/C-x - SWD[®] 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 |

Safety features

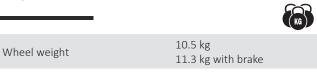
| | CRNOPER COC |
|---------------------|-------------------------|
| Motor disconnection | STO SIL3/PLe |
| Motion control | SLS, SDI, SMS, SIL2/PLd |
| Braking | SBC SIL2/PLd |
| Encoder | 412 ppr SIL2/PLd |
| Interface | CANopen Safety® |

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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