

# DATA SHEET

## EZ-Wheel Medical Type

### ezW300 Medical Kit

The ezW300 medical kit allows you to get started with the ez-Wheel ezW300M autonomous wheel. It provides an electric assistance to all kind of medical equipment or rolling material used in hospital complex.

#### Immediate fitting

This kit can be fitted immediately on any vehicle chassis or mobile equipment. No electrical connection is needed.

#### Inclusion

- 1 wheel ezW300M
- 1 wireless tiller head
- 1 suspension bracket
- 1 anti-rotate ring
- 1 charger 1.8 ampere



#### Main specifications

Format/diameter 300 mm  
Nominal power/peak 200 W (S1)

#### Motor specifications

Technology Brushless (BLDC PM)  
Speed 0 to 12 km/h  
Peak torque 55 Nm

#### Battery

Electrochemistry Ni-MH  
Energy 240 Wh  
Recharging time 5 hours (for 90%)

#### Interface

Technology Wireless (LR WPAN)  
Frequency 2.4 GHz  
Protocol Based on IEEE 802.15.4

#### Conditions

Température -20 to + 60°C  
IP Index IP IP65

#### Weight

Total weight wheel 17 Kg  
Max Load 260 Kg to 4 km/h  
130 Kg to 12 km/h

#### Wireless tiller head ezRTH

The multifunction tiller head ezRTH/W ensures a proper handling of equipment thanks to ergonomic shapes and well organised commands. The integrated wireless interface allows a simple and quick integration on rolling material. For a safe action, the command includes a stop button in case of dangerous manoeuvre. The interface remotely displays the battery level of the wheel and the system status.

#### Suspension bracket ezMCS

The ezMCS is a mounting bracket featuring a suspension for height compensation. The ground contact is optimal and the charge on the wheel stays stable, ensuring a good grip for the torque transmission.

#### Charger 1.8 amperes MASCOT1A8

The Mascot1A8 charger can recharge one wheel in 5 hours. It is a high-efficiency 60W power supply, compliant with medical standards.

#### Anti-rotate ring ezMAR

The ezMAR ring is used to block the rotation of the wheel's axis, ensuring the transmission of the motor torque to the chassis. The ezMAR is maintained on the chassis by two M6 bolts, and is tightened on the wheel's axis by one M3 bolt.



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### Configuration

Forward	3 km/h
Backward	3 km/h
Peak torque	55 Nm
Acceleration curve	Medium (1/3)

### Multi-purpose

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 of more than 5 years.

The aluminium casing enables the wheel to bear a load of up to 300 kg. The robust assembly can withstand the stresses of knocks and severe vibration.

### Standard

The standardized dimensions and mechanical interface make it simple and quick to fit the product. The bored axle of the wheel is mounted on a 16 mm shaft just like a free wheel and the rotation stop consists of a locking collar at the end of the axle.

The wheel hub is fitted with a solid, 25 mm thick poly-urethane tyre 80 shore A for drive wheels. The solid tyre does not require any maintenance or servicing and does not need to be replaced.

### Warranty

ez-Wheel products are guaranteed 1 year from the date of purchase. Consult the general conditions of sale for more information.

### Environmentally responsible

The approach to ez-Wheel product design is to minimize environmental impact. Collection and recycling are organized for products reaching the end of their lifecycle. Contact your dealer for more information.



Tiller Head



Suspension bracket



1.8 amperes charger



Anti-rotate ring



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