

DATA SHEET

EZ- Wheel Road Type Kit

ezW10 Road Type Kit

The ezW10 road tyre kit allows you to get started with the ez-Wheel ezW10R autonomous wheel. It provides an electric traction to any type of light vehicle or rolling material for outdoor use.

Immediate fitting

This kit can be fitted immediately on any vehicle chassis or mobile equipment. No electrical connection is needed, since the wheel is self-powered by the built-in battery and driven by wireless communication.

Kit Composition

- 1 ezW10R wheel
- 1 Joystick forward/backward
- 1 Wireless interface
- 1 charger 1.8 amperes
- 1 anti-rotate ring



Main specifications

Format/diameter 10"/ 400 mm
Nominal power/Peak 250 W / 1kW

Motor specifications

Technology Brushless (BLDC PM)
Speed 0 to 18 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 of use

Temperature -20 to + 60°C
IP index IP65

Weight

Total weight wheel 14.5 Kg
Maximum load 150 Kg per wheel

Wireless interface ezR44IN

The wireless interface ezR44IN/W is used to remotely control one or two wheels. It can be mounted on a chassis with fixing collars, or on a drilled panel with bolts. The motor control is ensured by a command connected to the wireless interface.

Joystick ezAAR

The ezAAR is a finger size 1-axis joystick control. It can control the speed in both directions, forward and backward. It can be mounted on the end of a tube, or on a panel.

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	6 km/h
Backward	2\ km/h
Peak torque	55 Nm
Acceleration curve	Strong (2/3)

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 (150 kg per tyre). 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 hub forms a standardized rim, taking a 100-80-10 tyre fitted with a 3.5-10 inner tube. The wheel is delivered with a “road” tyre.

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.



Wireless interface



Joystick



Charger 1.8 amperes



Anti-rotate ring



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