

ez-Wheel **ezW160I** provides electric assistance to :

Industrial hand trucks  
 Roll carts  
 Mobile equipment on concrete surface  
 ...

#### Immediate fitting

The self-propelled ez-Wheel can be fitted immediately on any vehicle chassis or mobile equipment. The wheel is self-powered by the built-in battery and driven by wired or wireless communication.

#### Reduced space requirement

The series 160 integrates motor and batteries in an extremely compact format. The wheel is designed with reduced height to fit any low chassis. The robust hub fairing protects all components from knocks and splashing.

#### Reduced pushing effort

The peak torque of the electric motor develops a pushing force of 20 daN. It provides a reduced effort and a safe action of any rolling material equipped with the wheel.

#### Extended compatibility

The series 160 are available with wire connections or with external batteries to allow junctions to other electrical peripherals. The motor can also be powered by an external battery, if already available on the material.

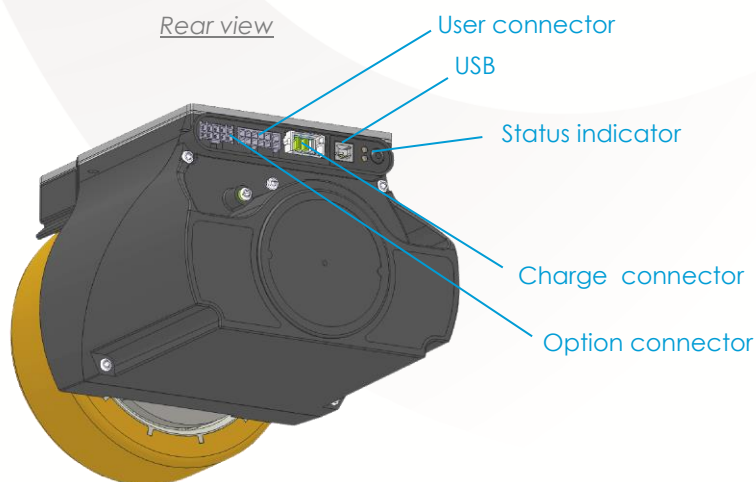
#### Environmentally responsible

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.



#### Main specifications

|                  |                                           |
|------------------|-------------------------------------------|
| Diameter         | 158 mm                                    |
| Type of tyre     | 70 sh. A solid tyre<br>Flat profile       |
| Speed            | 0 to 5 km/h                               |
| Nominal Power    | 70 W (\$1 at 4 km/h)                      |
| Battery capacity | 70 Wh (1 battery)<br>140 Wh (2 batteries) |
| Torque peak      | 17 Nm<br>20 daN of pushing force          |
| Options          | 0/1/2 batteries - Brake -<br>Encoder      |



## High-Tech built-in solution

All the components necessary for traction are built into the wheel: the electric motor, high energy, very long life batteries, a power controller ensuring optimum motor control and battery management and a wired or wireless interface.

### Motor specification

|               |                      |
|---------------|----------------------|
| Technology    | DC PM                |
| Maximum speed | 160 rpm              |
| Nominal power | 70 W (S1 at 130 rpm) |
| Peak torque   | 17 Nm                |

### Battery

|                  |                               |
|------------------|-------------------------------|
| Electrochemistry | Ni-MH                         |
| Energy           | 0 / 70 / 140 Wh               |
| Lifespan         | 2 years                       |
| Recharge         | Charger                       |
| Recharging time  | 1 hour (for 90% with 1 batt.) |

### Interface

|       |                   |
|-------|-------------------|
| Wired | Analogue / Serial |
|-------|-------------------|

## 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.

The casing enables the wheel to bear a load of up to 100 kg. The robust assembly can withstand the stresses of knocks and severe vibration.

### Conditions of use

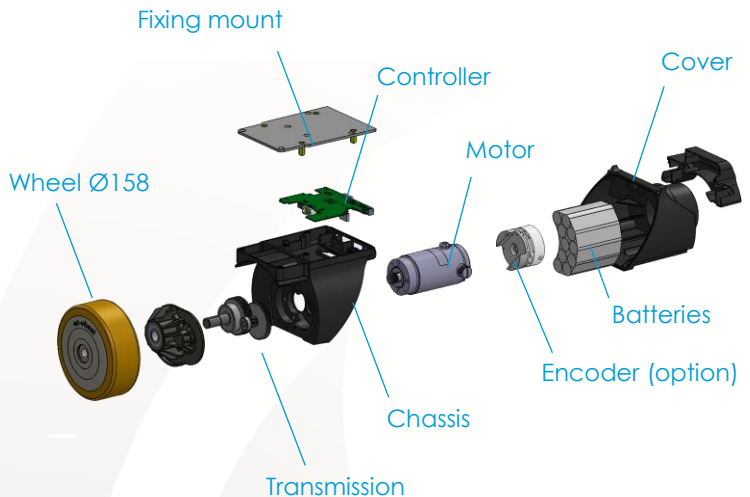
|             |              |
|-------------|--------------|
| Temperature | -10 to +40°C |
| IP index    | IP54         |

### Weight

|                    |                       |
|--------------------|-----------------------|
| Total weight wheel | 6 kg (with 1 battery) |
| Maximum load       | 100 kg                |

## Warranty

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



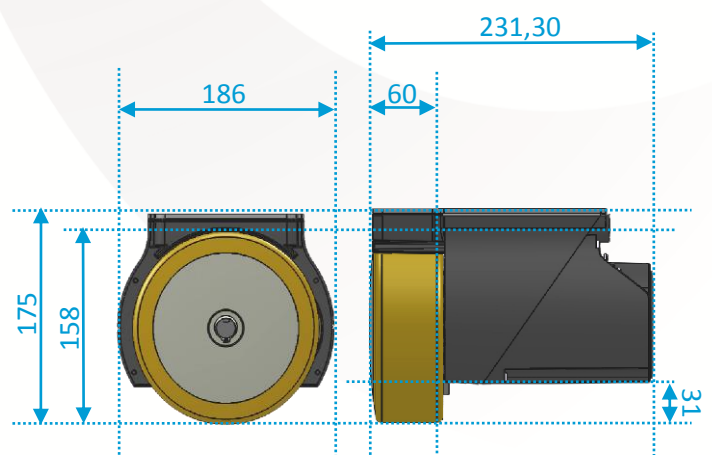
## Standard

The standardized dimensions and mechanical interface make it simple and quick to fit the product. The integrated mount is fixed to the chassis with 4 bolts, just like a simple caster.

The wheel hub is fitted with a solid, 15 mm thick polyurethane tyre 70 shore A for drive wheels. The solid tyre does not require any maintenance or servicing and does not need to be replaced.

### Functional dimensions

|                         |           |
|-------------------------|-----------|
| Wheel diameter          | 158 mm    |
| Thickness of solid tyre | 15 mm     |
| Width of solid tyre     | 60 mm     |
| Total height            | 175 mm    |
| Total width             | 186 mm    |
| Total length            | 231,30 mm |
| Ground clearance        | 31 mm     |



2D and 3D drawings available at [www.ez-wheel.com](http://www.ez-wheel.com)