



by Phoenix Mecano

## USER MANUAL

### Electric Repair Stand



**EZORD Standard Battery**

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## 01. Introduction

### 01.1 About this manual

This manual contains important safety instructions that must be followed when operating the Ezord Repair Stand.

See the web version: [www.ezord.com](http://www.ezord.com)



**WARNING! Read the instruction manual carefully before using the Repair Stand.**

### 01.2 CE Declaración of Conformuty

The company

PHOENIX SYSTEMS MECANO ESPAÑA, S.A.  
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Declares under its sole responsibility that the machine  
Type: Standard Repair  
Model: STANDARD BATTERY  
Serial No .:  
Year of manufacture:

It complies with all applicable provisions of the directives:

- 2006/42/EC on Machinery
- 2014/30/EU on Electromagnetic Compatibility










Harmonized standard consulted:

- UNE-EN ISO 12100 Machine Safety - General principles for design - Risk assessment and risk reduction.

### 01.3 Warning Symbols Used in the Instruction Manual

Correct identification and interpretation of the instructions and recommendations are critical for avoiding accidents that could cause personal injury and material damage. Therefore, special attention should be paid to this section.

#### Symbols Used in the Instruccion Manual

	It generally indicates that the instruction it accompanies poses some danger to the working personnel.
	It generally indicates that the instruction it accompanies contains some risk of material damage.
	It generally indicates that the instruction it accompanies is of an informative nature.
	It generally indicates that the instruction it accompanies contains some danger of entrapment between moving parts.
	It generally indicates that the instruction it accompanies contains some danger of electric shock or electrocution.
	It generally indicates that the instruction it accompanies involves some risk of tipping over.
	It generally indicates that the instruction it accompanies contains some danger of sharp cutting.
	It generally indicates that the instruction it accompanies involves some danger of tripping over a step.
	It generally indicates that the instruction it accompanies contains some danger of falling objects.

## 02. Safety notices



**WARNING!** Read the safety recommendations carefully before using the repair stand. It is very important to understand and follow the safety guidelines. Failure to comply with them may endanger people's health and cause material damage.

### 02.1 Personnel

People who use the repair stand are responsible for their own safety, avoiding dangerous situations.













**INFORMATION !** The repair stand can be used by authorized and qualified persons of legal age.

Authorised, competent and qualified persons must be accustomed to following and applying safety regulations in the workplace. They must have read, understood and have the physical and mental abilities to use the bicycle lift safely.

### 02.2 General Safety Recommendations

The following safety instructions must be observed in all activities carried out on the bicycle lift:

## Recommendations

	<p>Danger! Electrocution due to poor electrical installation.</p> <ul style="list-style-type: none"> <li>Do not carry out any activity if the electrical installation is damaged.</li> </ul>
	<p>Danger! Electrocution due to water infiltration into the device.</p> <ul style="list-style-type: none"> <li>Avoid using liquids that may enter the interior of the elevator.</li> </ul>
	<p>Danger! Electrocution due to water entering the device.</p> <ul style="list-style-type: none"> <li>Do not wash bicycles on the bicycle lift.</li> </ul>
	<p>Danger! Sharp-edged cuts.</p> <ul style="list-style-type: none"> <li>Wear gloves when working with the bike lift.</li> </ul>
	<p>Danger! Overturning.</p> <ul style="list-style-type: none"> <li>Do not use the bicycle lift on uneven or uneven floors, floors with obstacles, or when moving the bicycle lift while it is elevated.</li> </ul>
	<p>Danger! Risk of tripping over the base.</p> <ul style="list-style-type: none"> <li>Pay attention to the base of the bike lift when moving around it.</li> </ul>
	<p>Danger! The bike may fall if it is not properly secured with the clamp.</p> <ul style="list-style-type: none"> <li>Pay attention to the use of the tweezers.</li> </ul>
	<p>Danger! Falling objects.</p> <ul style="list-style-type: none"> <li>Do not leave loose objects on the bike lift.</li> </ul>
	<p>Danger! Entrapment between moving and fixed parts.</p> <ul style="list-style-type: none"> <li>Make sure that there are no people or objects around the bicycle lift while it is in use. Do not leave the work area during the lowering or raising movement.</li> </ul>
	<p>Danger! Use the bicycle lift for purposes other than its intended purpose.</p> <ul style="list-style-type: none"> <li>Do not climb, hang or lift people or any object for which this product is not designed.</li> </ul>



Applying the necessary safety measures and protective equipment, according to the applicable occupational risk prevention legislation, to protect and guarantee the health and safety of the workers, considering the operations carried out, tools used and the work environment.



It is not permitted to override the safety functions of the bicycle lift.

## 02.3 Residual Hazards

Despite integrating all possible safety measures into the design, providing additional safety devices and instructions, residual risks cannot be completely eliminated. The user can ensure safety in use by paying attention and applying the necessary measures to prevent accidents.



The risk zone is marked on the equipment with the following warning:



## 02.4 Safety Measures

Safety measures provided for the bicycle lift:

- ISP function, Intelligent System Protection ( anti-entrapment system ).
- Heavy base provides stability, reducing the risk of tipping over when working at height.
- Warning sign in the risk zone.
- Clamp design facilitates optimal clamping with the load centered.
- In addition to the measures provided, we recommend the following personal protective equipment:

	Gloves for protection against possible scratches and cuts
	Safety footwear

## 03. Product Information

### 03.1 Description of the Ezoord Repair Stand

Ezoord Repair Stand has been designed as a versatile, strong and ergonomic workstation for maintenance, assembly and repair tasks for heavy bikes such as e-bikes, cargo bikes, but can be used for all types of bikes and scooters. It features an electric column capable of easily raising bicycles or scooters to a comfortable working height. Its rotating clamp allows controlled adjustments, facilitating access to the most difficult parts. Supplied fully assembled and ready to work.

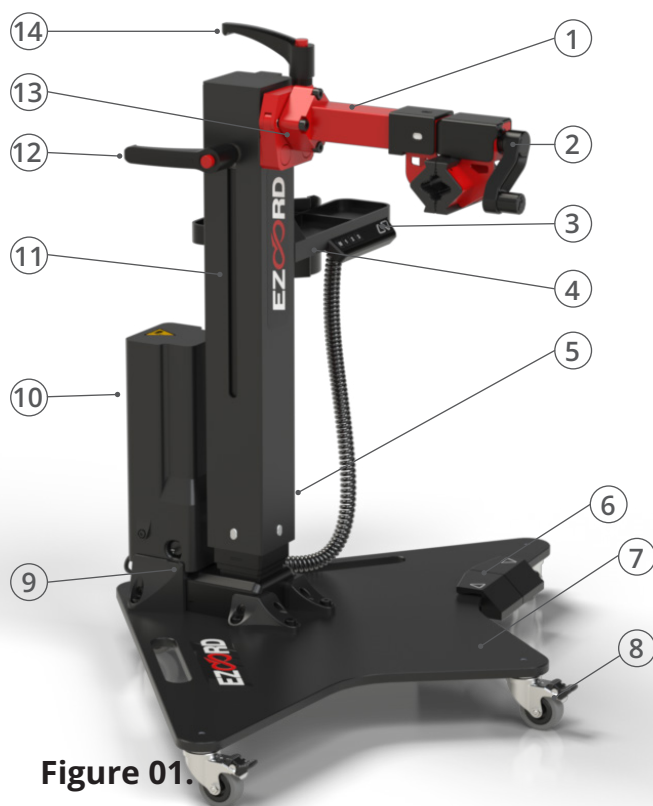


**Attention!** It is prohibited to use the lift for purposes other than those for which it was designed.





**Attention! Any modification to the equipment voids the warranty and CE marking.**



**Figure 01.**

#### Description

1	Gripper
2	Crank
3	Handset with display
4	Tray
5	Lifting column
6	Foot control
7	Base
8	Wheel
9	Handle
10	Control box
11	Housing
12	Adjustable lever
13	Clamp
14	Clamp handle

### 03.2 Technical Features

#### Technical features

Dimensions (Width/Depth/Height)	860 x 633 x 760 mm
Weight	42 Kg
Maximum Lift (Electric Column)	650 mm
Minimum mooring height	666 mm
Manual lifting	300 mm
Maximum working height (Column lift + manual lift)	1611 mm
Lifting speed	35 mm/s
Power supply	100-240V50/60Hz 3.5A-1.6A
Installation power	0.88 kW
Telescopic column strength	800 N
Temperature range	10°C - 40°C
Relative humidity	30-70% RH
Work cycles	2 min On /18 min Off
Battery	Li-ion 1800mAh

### 03.3 Dimensions

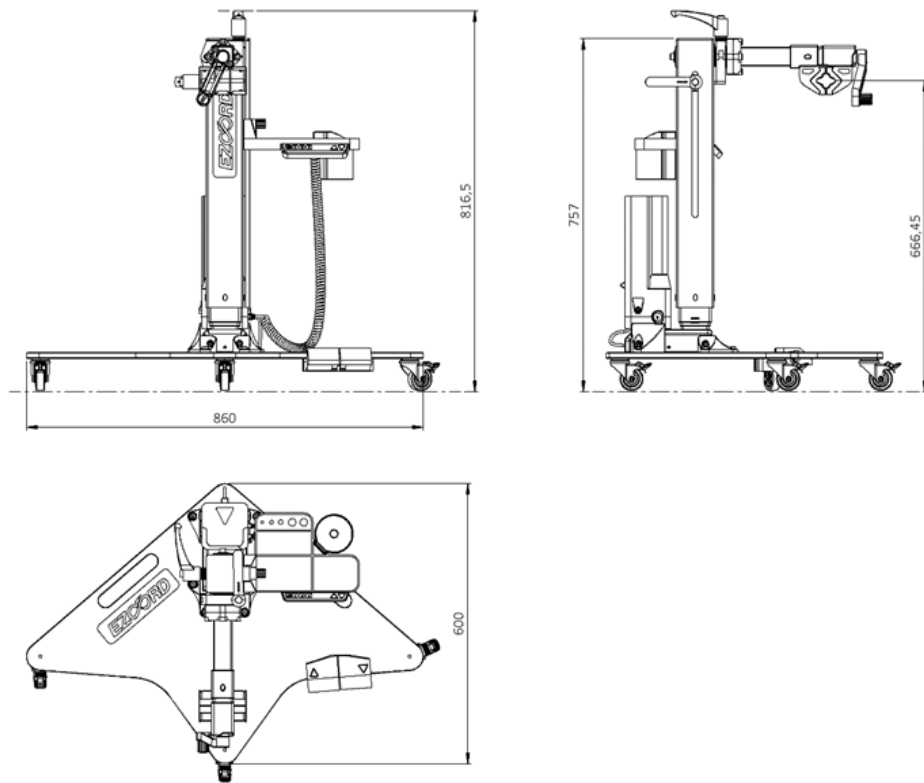


Figure 02.

### 03.4 Workstation

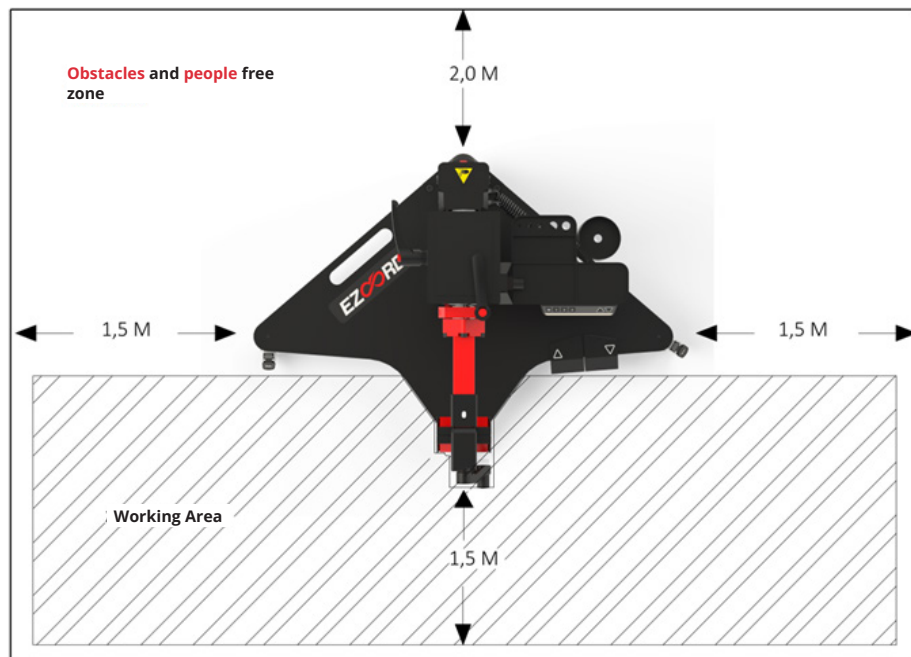


Figure 03.

It is recommended to leave a free space of 2 meters at the back and 1.5 meters on both sides, as well as in front of the bicycle lift.



**Caution!** The rear area must remain free of obstacles and people. Risk of entrapment accidents.



**Attention!** It is prohibited to use the elevator's up and down functions in the presence of people in the spaces indicated in figure 4.  
Danger of entrapment.



**Attention!** It is prohibited to use the automatic up and down function and to leave the work station.



**Caution!** When moving around the bicycle lift. Base raised from the ground, tripping hazard.

## 04. Transport and Unpacking

Ezoord bicycle lift is supplied packed on a recyclable plastic pallet. It is recommended to handle it with suitable mechanical means.

During transport, shocks, heat and excessive humidity should be avoided.

### 04.1 Unpacking

The Ezoord bicycle lift must be placed on a level floor free of obstacles.



**Attention!** During handling, no sudden movements or maneuvers that may be dangerous for the operators must be carried out.



**Attention!** Two people are required to unpack the lift. Use the PPE required for work operations.

Due to the weight of the bicycle lift, it is mandatory to handle it between two people. It is recommended to use the handles (9) on the base to lower it from the pallet.

## 05. Assembly

The bicycle lift is supplied fully assembled.

### 05.1 Disassembly and Recycling

It is recommended to recycle all components that cannot be reused, taking special care with electrical and electronic components, following local regulations.

## 06. Instructions for use

Before using the bicycle lift, make sure that it is in good condition, without any bumps, damage, injured cables, etc.

### 06.1 Connection to the mains

Before connecting the Bicycle lift:

- Place the bike lift on a level surface, free of damage and obstacles.
- Near a properly installed, grounded outlet protected by a differential.

#### Connection requirements:

Power supply	100-240VAC
Installation power	0.88 kW



**Attention!** Two people are required to unpack the lift. Use the PPE required for work operations.

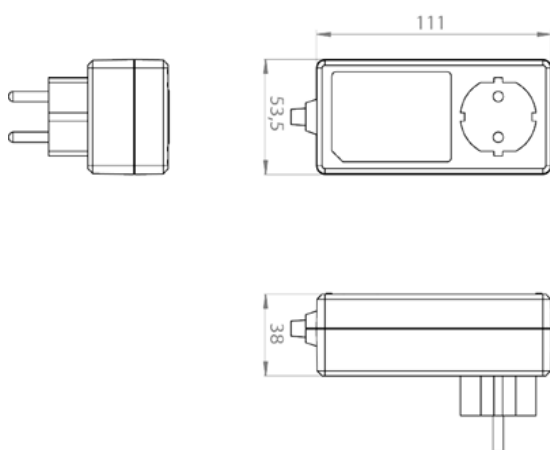


**Caution!** Risk of electrocution due to faulty installation. Contact a licensed electrician to install the sockets.



**Attention!** The power cable must always be retracted when the bicycle lift is moved on its wheels.

## 06.2 PD15 Power Supply



<b>ELECTRICAL POWER SUPPLY</b>	<b>100-240V50/60Hz 3.5A-1.6A</b>
<b>OUTPUT VOLTAGE</b>	<b>28V</b>
<b>WIRE</b>	<b>2 POLES</b>
<b>TRANSPORT/STORAGE TEMP.</b>	<b>-20 °C to +50 °C</b>
<b>IP</b>	<b>X4</b>

The PD15 power supply will connect to the charger connector to charge the battery.

06 .3 Using the Controls











Handset with display



Foot control

Control symbols

Symbol	Type of Control	Key
	With Display	"M" Memory
	With Display	"1" Memory 1
	With Display	"2" Memory 2
	With Display	"3" Memory 3
	With Display	"UP"
	With Display	"DOWN"
	Pedal	"UP"
	Pedal	"DOWN"



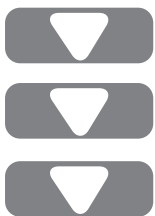
**Note:** During initial start-up and after disconnecting the power, a manual reset is required to be able to use the product.

## Reset Using the handset with display



- Press and hold the "DOWN" key until the lift reaches the lowest position. If the lift is already in the lowest position, skip this step.
- Press and hold the "DOWN" key. The display will alternate between "E-1" and "rEs ". Release the key.
- Press and hold the "DOWN" key again, the lift will slowly move down and then rise again briefly until the display shows the height. Release the key.
- The bicycle lift can now be used normally.

## Reset Using the Foot Pedal



- Press and hold the "DOWN" key until the lift reaches the lowest position. If the lift is already in the lowest position, skip this step.
- Press and hold the "DOWN" key for 5 seconds. Release the key.
- Press and hold the "DOWN" key again, the elevator will slowly move down and then rise again briefly. Release the key.
- The bicycle lift can now be used normally.



**Attention!** During the reset process, ISP ( Intelligent System Protection ) is inactive, so it is mandatory that the work area is free of people and any obstacles, including the bicycle, as this can cause damage. This should always be done with the stand empty and never with the bicycle mounted.

## Memorizing Positions Using the Handset with Display



- Use the "UP" and "DOWN" keys to adjust the desired height.
- Press the "M" key until "S---" appears on the display .
- Press the "1" key, the display will alternate between "S-1" and the height indicator.
- Press "M" key, memory "1" will be set.
- Repeat steps for positions "2" and "3".

By default, these positions are memorized: key "1" at minimum height and key "3" at maximum height. It is recommended not to modify them.

## Adjust the height using the foot pedal



- Press and hold the “UP” key and the elevator will rise until it reaches the desired position. Release the key to stop the movement.
- Press and hold the “DOWN” key and the elevator will lower to the desired position. Release the key to stop the movement.

## Adjust the height using the display control



- Press and hold the “UP” key and the elevator will rise until it reaches the desired position. Release the key to stop the movement.
- Press and hold the “DOWN” key and the elevator will lower to the desired position. Release the key to stop the movement.

## Automatic movement



- Press key “1”. The lift will reach the programmed height.
- Press key “2”. The lift will reach the programmed height.
- Press key “3”. The lift will reach the programmed height.



**Attention!** Risk of entrapment with the repair stand is descending between the column and the control box.





## ISP Function



- If, despite the safety measures taken, a collision occurs while moving at nominal speed, the Ezoord bicycle lift detects this: it stops immediately and moves back approximately 20 mm in the opposite direction to its initial travel.
- The message "E-2" will appear on the display .
- After removing the obstacle, the bicycle lift can be used normally.



**Note:** The ISP function is a security measure, it should not be used as a normal way of working.

## Factory reset

To reset to factory settings, consult the manufacturer.

### 06.4 Meaning of Messages on the Display

Code	Information	Operation
rES	Manual reset	Complete the Manual reset
ovr	Weight overload	Remove the overload
E-2	ISP Funtion	Remove the obstacle
dut	Continous operation for more than 2 min.	Take a break for 18 min *

\* When you press any key during **dut** , the remaining pause time is displayed on the screen.

## 06.5 Manual Adjustment of Grip Height

It is possible to adjust the clamping height manually, in a range of 300mm with the help of the adjustable handle (11):

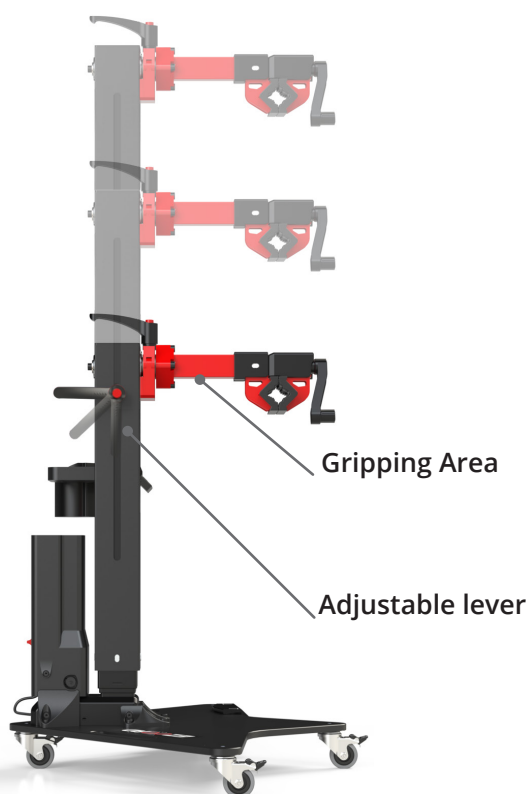


To adjust the lever to a comfortable position for use: lift the lever to release the teeth of the locking device by placing your thumb on the red button and turn. In the desired position, release the lever. The return spring automatically engages the teeth.

To tighten: turn the handle clockwise.

To loosen: turn the handle counterclockwise.

### Manual height adjustment instructions:



Manual height adjustment must be carried out without any load on the clamp and in a controlled manner. Releasing the adjustable handle without holding the weight of the sleeve+clamp with your hand can cause damage to people, objects and the lift itself.

- 1) Hold the clamp firmly with one hand in the gripping area. **Attention! Weight to be supported: 10Kg.**
- 2) Loosen the adjustable lever (11). **Caution! The lever must be loosened after gripping the clamp and not before.**
- 3) Keeping the clamp gripped, raise or lower the sleeve-clamp assembly until the desired height is reached.
- 4) Firmly tighten the adjustable lever.



**Attention!** When manually adjusting the clamping height, make sure that the area under the clamp is free of people or any obstacles, including the bicycle, as this may cause damage. This should always be done with the clamp empty and never with the bicycle mounted. When the handle is released, the entire body load is free, approximately 13 kg, which must be held by the user.

## 06.6 The Gripper



## 06.7 How to fit a bicycle

1. Unlock the clamp rotation using the adjustable handle (13) on the clamp. Rotate the clamp to the desired position and lock the clamp rotation.
2. Place the bike in front of the lift, aligning the frame attachment point with the clamp.
3. Without releasing the bike, raise the lift, using the controls, until it is above the bike.
4. Move the lift onto the wheels, bringing it closer to the bike until the clamp is above the frame.
5. Open the jaws by turning the crank (2) without exceeding the maximum range of 100mm.
6. Lower the lift, using the controls, until the bike frame is positioned within the clamps.
7. Close the jaws by turning the crank (2). The clamping pressure is fully adjustable and must be determined by the user for proper operation and to prevent any damage to thin walled tubes.
8. Raise the bike to working height.
9. Unlock the clamp rotation using the adjustable lever (13) on the clamp. Rotate the bike to the desired position and lock the clamp rotation.



**Attention!** The closing pressure of the clamp will be determined by the user, who is the sole responsible party. Phoenix Systems Mecano España, SA is not responsible for damage caused by excessive or insufficient tightening.



**Attention!** Do not hold the bicycle frame by the ends, this can cause accidents and material damage.



**Note:** It is advisable to secure the frame as centrally as possible. This will help turn the bike without additional effort.

## 06.8 Working with a Bicycle in an Elevated Position

Ezord bicycle lift allows you to perform all necessary tasks on your bike, raising it to a comfortable height for working. Even if the centre of mass is within the inner area of the support points, you can avoid stresses that could cause the bike to tip over.



**Caution!** Never move the lift with the bike raised. Risk of tipping over.



**Caution!** Never use the bicycle lift on uneven or uneven floors or on obstacles. Risk of tipping over.



**Caution!** Do not perform work that requires sudden movements or apply forces that could unbalance the bicycle lift. Risk of tipping over.

## 06.9 Moving the Repair Stand on its wheels

Ezord bicycle lift has wheels on the base to make it easy to move around the workshop. This activity should always be carried out with caution.



**Caution!** Lower the lift to the lowest possible position to move on its wheels and never do so with the bike raised. Risk of tipping over.



**Caution!** Retract the power cord before moving the lift on its wheels.

## 07. Battery



**Attention!** Leaking batteries are a health hazard. They can damage the skin and eyes. In case of contact with the liquid, wash with plenty of water and seek medical attention immediately.



**Attention!** In case of damage to the battery cable or casing, it must be disposed of immediately, following recycling recommendations. The battery must not be opened or destroyed. Do not solder to the battery or solder in its vicinity. Avoid contact of the battery with water.



**Attention!** Always use the charger supplied by the manufacturer.

### The battery must not be used:

- In an environment where combustible or explosive gases or vapors may be present (e.g., anesthesiology).
- Near open fires or other heat sources (such as stoves, ovens or direct sunlight).
- In any application that will be cleaned with an automated washing system.
- In a humid environment.
- Outdoors.
- As a power source for toys or games.



**Caution!** The battery must be stored in such a way that the terminals cannot short-circuit each other.



**Note:** Improper storage may reduce battery performance or destroy the battery.



**Note:** The battery should be charged immediately after delivery and then after six months of storage. If it is discharged and not used for a long period of time, it may be damaged.



**Note:** The battery should be disconnected from the control unit as well as from the mains if you do not plan to use the system for an extended period. It should then be reconnected before you plan to use the system. This will prevent the battery from losing its charge.



**Note:** Do not store the battery in direct sunlight.

#### Important features:

- Very low self-discharge rate
- Short circuit proof
- Over current shutdown
- Full discharge protection
- Acoustic warning signal for low remaining charge.
- Optical charge level indicator.
- LED charging indicator: Lights up red: The battery is charging
- The LED lights up green: The battery is fully charged

**Technical data:**

- Lithium-ion battery ( Li -Ion)
- Capacity: 1800 mAh
- Energy: 45 Wh
- max. voltage 30 V DC
- Output voltage: 25.2V DC
- max. output current 5 A
- Acoustic signal:  $\leq 23$  V
- Operating temperature range 0°C to +40°C
- Charging time approx. 5 - 8 h (depending on charging status)
- Reduced weight: approx. 550 grams
- approx. 300 charge cycles (depending on usage and operating conditions)
- Transport/storage temperature 0 °C to +55 °C
- Relative humidity 20% to 85%
- Charging temperature from +10 °C to +40 °C

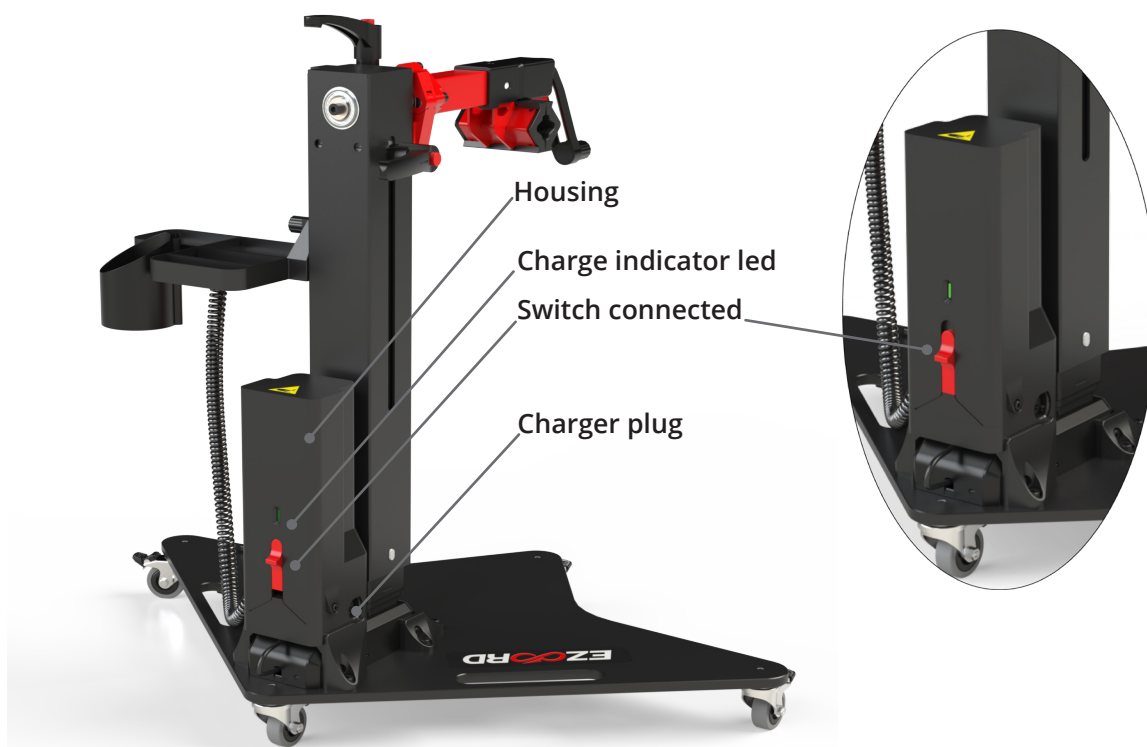
**07.1 Connecting and Disconnecting the Battery**

Quick disconnection of the battery is possible using the red actuator located on the back of the charging dock.

Disconnecting the battery significantly reduces standby consumption.

To connect the battery, press the actuator firmly downwards until it stops.

To disconnect the battery, lift the actuator upwards until it reaches the stop.



## 07.2 Battery charging



**Note:** The battery must be connected to the Dock and the PD15 Power Supply for charging.



**Note:** Due to chemical reactions, the battery becomes hot during charging. If it becomes very hot, the protection circuit is defective. In this case remove all connecting cables from the drive/control unit and have the unit (Battery and PD15 power supply) checked by an authorized technician.

Recharge the battery only in the indicated temperatures.

The battery provides its full capacity after 5 to 10 charge and discharge cycles.

Use only the PD15 POWER SUPPLY to charge the battery and familiarize your self with the operation of the device.

Charging time may take approx. 5 - 8 h.

The red LED flashes during the charging process. When the battery is fully charged, the electronics switches to standby mode and the LED lights up green. The green LED goes out after the PD15 POWER SUPPLY is disconnected.

A green LED on the PD15 POWER SUPPLY indicates that it is connected to power.

The system can be operated/moved while charging.





**Note:** Charge the battery fully before first use. This is necessary to achieve the maximum capacity. When the green LED turns off, the battery is fully charged. The maximum battery capacity is now available.



**Note:** The integrated low battery acoustic warning is only active when the lift is in motion!

The battery will work optimally when used in ambient temperatures of 18°C to 25°C. The operating temperature should never exceed 40°C.

After long periods of storage, several charge and recharge cycles may be required to restore maximum battery performance.

Connect the battery to the PD15 POWER SUPPLY making sure to use the correct connection port. The plug should snap firmly into place.

Connect the PD15 POWER SUPPLY to the power socket. During charging the LED lights up red. If the charging cycle is complete and the PD15 POWER SUPPLY is disconnected from the socket the LED turns off.

### Acoustic warning signal

An acoustic warning signal indicates that the battery charge status is very low. The battery needs to be charged.

### Full discharge protection

The battery disconnect voltage is  $\leq 22$  V. If the actual voltage falls below this level, the battery is disconnected from the system. If the battery voltage rises above the shutdown level again, it will be switched on again.

### Optical charge level indicator

#### Red LED

If the charger is connected correctly, the red LED will flash and the battery will be charged. If the LED does not light up, check the connections. There may be a disconnection or malfunction.

#### Green LED

The green LED lights up when the battery is charged. It turns off when the battery is discharged. The charging circuit switches to standby mode and the LED turns off. If the battery voltage drops below a certain level, the charging process resumes and the green LED turns on.

### 07.3 Battery Recycling

The battery consists of electronic components, wires, and metal and plastic parts. Please refer to the relevant national and regional environmental standards.

Disposal of the final product is regulated internationally by EU Directive 2012/19/EC (WEEE) or any applicable national laws and regulations.

The battery must not be disposed of with household waste.

## 08. Maintenance

Ezord bike lift is maintenance-free, some of the parts wear out with use. The lifespan of these parts will depend on the intensity of use.

It is recommended to clean the equipment after each use and to ensure that it is in good general condition and that the warning signs are intact.

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