

R2

user manual



elebia®

smart lifting solutions

Obtaining your user certificate

01

Download the user manual from Elebia's website or by scanning the QR code.



PDF MANUAL

02

Read the user manual carefully and ensure you understand all safety instructions.

03

Complete the certification after reading this manual.

04

Repeat this process once a year to keep your certificate valid.

Table of Contents

4	Safety Guidelines
6	Product overview
10	Remote controls
12	Battery and charger
17	Installation
18	Operation
22	Working Modes and Smart Features
27	Conformity Declaration
28	End of Life
29	Warranty
30	Inspection and maintenance
37	Quick links

Safety Guidelines

Improper operation of the R2 automatic lifting hook can lead to hazardous scenarios. To prevent serious injury or death, please adhere to the following safety instructions:

Operator Responsibility

- The operator is solely responsible for ensuring that all loads are handled safely and correctly when using Elebia products.
- While Elebia's automated lifting systems are designed to enhance safety and efficiency, they do not replace the need for careful, responsible operation.
- All automated actions — including attaching, lifting, and releasing — must be supervised and visually confirmed by the operator at all times.

Before Use

- Always read and understand the user manual completely before operating the device.
- Ensure all operators are familiar with the device's controls, procedures, and warnings.
- Do not operate the device if it is not functioning correctly or is performing abnormally.
- Report any device malfunction or abnormal performance after disconnecting it for repair.
- Do not operate or attempt to repair the device if it is damaged or missing components.
- Do not modify the device (e.g., welding, grinding) without the manufacturer's approval, as this can compromise its operation and safety.

Operational Safety

- Ensure the device is properly secured before operation.
- Do not operate outside the R2 WLL range.
- Loads under 20 kg should not be lifted or transported. If instructed, the R2 unit will release such loads mid-air.
- Do not use the R2 beyond its designated service life.
- Never use the device to lift, sustain, or transport people.
- Avoid lifting loads over people and maintain a safe distance from the load.
- Do not operate the device unless all individuals are outside the area of the suspended load.
- Do not operate the device if anyone is touching or manipulating it.
- When using the R2, ensure it is always aligned with the pulling forces. Do not attempt to lift the load if R2 movement is obstructed.
- Do not use the R2 to drag loads.
- Use only load slings, chain slings, or other lifting accessories of the correct size and properly fastened to the device.
- Insert only one sling or one ring into the hook (unless the Rigid Latch Option is installed — see p. 24).

- Do not place or lift the load on the tip of the hook
- The safety latch should not bear any load (unless the Rigid Latch Option is installed — see p. 24).
- Do not operate the device with twisted, tangled, damaged, or worn load slings, chain slings, or other lifting accessories.
- Ensure loads are balanced, secured, and suitably fastened before lifting. Carefully tighten any slackness.
- Do not leave suspended loads unattended without taking specific precautions.
- Do not attempt to open the device while a load is suspended.
- During welding operations, prevent the device from making electrical or earth contact.
- Do not allow a live welding electrode to touch the device or lifting chains.

Warning Signs

- Do not remove or cover any warning signs on the device.
- Do not operate the device if safety signs are missing or illegible.

Care and Storage

- Store the device clean and in a non-humid environment to prevent corrosion.
- Do not store the device for extended periods with the battery inserted.

Restrictions

- Temperature: The device is designed for use within a temperature range of -20 °C to 60 °C (-4 °F to 140 °F). Operation outside of these temperature limits is prohibited.
- Chemical Exposure: Exposure to acids, alkalines, or their vapors is not permitted. Certain manufacturing processes can release these substances and/or their fumes, which can damage the device.

Product Overview

Intended use

The R2 is a lifting hook designed to remotely detach loads, improving safety and automating lifting workflows.

WLL: 20 to 2,000 kg



Description

Load & Control

- **Radio-controlled:** Wireless operation via eMINI, eMAX, eLINK or Crane integration (eINST).
- **Open/Close button:** Manual override when needed.
- **On/Off switch:** Quick and convenient startup and shutdown.

Sensors

- **Altimeter:** Enables altitude-based auto locking for safe automation.
- **Double Encoder:** Redundant position verification for fail-safe performance.
- **Safe Release Sensor:** Confirms ground contact before allowing release.
- **LED status:** Real-time feedback.

■ Green - Release/Unlocked

■ Red - Transition

■ Blue - Lift/Locked

□ White - Low battery

Power & Operation

- **Tool-Free Battery Swap:** Long runtime for non-stop operations.
- **Rugged High-Strength Steel Frame:** Engineered to withstand impact, corrosion, and wear in the most demanding industrial environments.
- **Electric Motor:** Controls lock mechanism.

Smart features

- **Smart power management:** Operational Eco Modes extend battery performance by dynamically regulating sleep cycles and LED activity.

Safety Features

Elebia, the inventor and pioneer of automatic hooks, prioritizes safety. The R2 incorporates the following safety features:

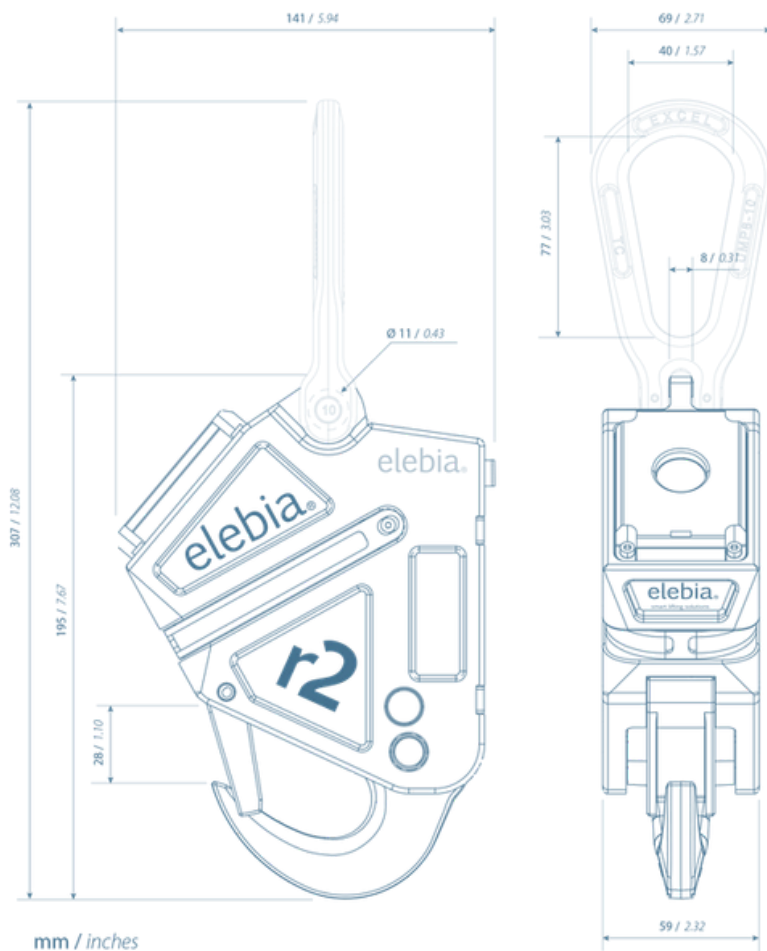
- **Safety Factor:** All load-bearing components meet or exceed a 4:1 safety factor according to EN1677 standards.
- **Fail-Safe Design:** Cannot release while the load is suspended. A low-power, low-torque motor prevents unlocking under loads exceeding 20 kg.
- **Disconnection:** Electronics enter a dormant state when a load is suspended.
- **Remote Release:** Operated from a safe distance via Elebia remote controls.
- **Remote control:** The 2-button remote control can be configured to include a press sequence, making it more difficult to accidentally send an order.
- **Radio Communication:** Employs encrypted communication and error code correction.
- **LED Status Indicators:** High-brightness, multi-color LEDs show hook status, battery level, and safety conditions. Easy to see even from a distance in bright daylight.
- **Mechanism Status:** An encoder senses the locking mechanism status, detecting if the locking pin is missing or not in the correct position.
- **Double Encoder:** A redundant encoder verifies the primary encoder's position. Discrepancies trigger a red LED, indicating a failure.
- **Full risk assessment:** available upon request.

Power & Operation

- **Battery Type:** Rechargeable and removable Li-ion.
- **Battery Life:** Capable of several days of operation (depends on cycle duty and configured parameters).
- **Portable spare battery:** The R2's removable battery is designed for field practicality, operators can carry spare batteries with them and swap them instantly when needed. Each battery includes a built-in LED charge indicator, so you can check its charge status at any time—even when it's not installed in the hook or the charger.
- **Power Management (eco mode):** Low consumption with intelligent sleep mode
- **Smart Locking System (autolock modes):** Hook closes and secures automatically after each release without manual or remote closure
- **Control Compatibility:** Operates with all Elebia remote control models
- **Smart/Automation:** Compatible with eLINK for parameter setup, logging, and diagnostics
- **Spring Functions:** Two spring-loaded configurations are available to achieve load-specific behavior: 'Normally Open' and 'Normally Closed'.

Mechanical Design

- **Weight:** 4 kg
- **IP:** 65
- **Construction:** High-strength materials, impact, corrosion and wear-resistant
- **Form Factor:** Compact and lightweight for space-constrained applications



Simplified Maintenance

- Easy Maintenance: Modular components for quick servicing and support.
- Remote Diagnostics: eLINK enables efficient diagnostics, maintenance and updates.

Regulatory Standards

EN 10204 3.1.B	UNE-EN 602041:2007	D89/391/EEC
UNE-EN 1050	UNE-EN 61000-6-4:2007	D89/654/EEC
UNE-EN 1677 1:2001+A1:2009	UNE-EN 61000-6-2:2006	D89/655/EEC
UNE-EN 1677-2:2001+A1:2008	UNE-EN ISO12100:2012	D89/656/EEC
	UN - 38.3	D92/58/EEC 9a

- Directive on Machine Safety (D2006/42/EC).
- EMC Directive (2014/30/EU).
- Low Voltage Directive (2014/35/EU).
- Radio Equipment Directive (2014/53/EU).
- Assurance of Production Quality in accordance with ISO9001.
- ARIB Construction Design Certification Number 203-JN0689.
- FCC Identifier 2ACLHEVO for Equipment Class: Digital Transmission System.
- Each mechanism is delivered with the CE stamp and a declaration of CE conformity.
- elebia is a member of F.E.M. (European Federation of Materials Handling).

Remote Controls

eMINI (not included)



The eMINI is a small and compact remote control. With the eMINI, the operator can open and close the R2 hook and control its battery level.

The eMINI also displays sensor information and maintenance messages.

Display Information

Code	Meaning
0-9	Battery level of the R2.
A	Low battery level of the eMINI remote control.
C	Hook maintenance is needed.
b	The eMINI remote control does not detect the hook.

eINST (not included)

The R2 automatic lifting hook can also be controlled using a free channel of the crane’s master control. The eINST remote control has to be placed in the crane relay cabinet, where only simple wiring is needed. It may be used by pairing to a free channel of the crane’s master control. It is compatible with all cranes. The eINST remote control can block the upward movement of the crane when the R2 hook is in intermediate position.



eMAX (not included)



The eMAX is our most advanced remote control. It displays all the info in a big high-resolution screen and a high-profile keypad, yet remains handy and lightweight.

eLINK (not included)



The eLink is Elebia's advanced control unit, transforming any crane into a smart, connected system. It serves as the definitive bridge between automatic hooks and the crane, offering:

- **Seamless Control:** Direct hook operation via the crane's existing remote control or PLC, eliminating extra devices.
- **Enhanced Safety:** Active safety protocols prevent high-risk maneuvers like uneven load lifting, side pulling, or restricted-zone operation.
- **Increased Productivity:** Intelligent features, including automatic re-hooking and semi-autonomous movement assistance, boost efficiency.
- **Predictive Maintenance:** Real-time monitoring and Service Working Period (SWP) calculation based on usage ensure timely service anticipation.

*For more information on the remote control devices, please visit www.elebia.com/downloads and download the corresponding remote control user manual.

Battery and charger

Battery (not included)

The R2 is powered by a removable Li-ion battery, designed for continuous operation in demanding environments.

Encased in a rugged IP65-rated housing, the battery is protected against dust, water, and impact - making it ideal for outdoor and industrial use.

For uninterrupted workflow, operators can carry spare batteries and swap them on the spot without tools or delays.

Each battery features a built-in LED indicator that displays its charge level—even when it's not connected to the hook or the charger—allowing quick visual checks before use.

Battery specifications

Cell Model	INR18650 MJ1
Pack configuration	1S1P
Nominal voltage	3.7 V
Nominal capacity	3,500 mAh
Energy	13 Wh
Charge voltage	4.2 V CC/CV
Max charge current	2 A (limited by BMS)
Max continuous discharge current	3 A (limited by BMS)
Overcharge protection voltage	4.25 V
Overdischarge protection voltage	2.80 V
BMS protections	Overcharge / Overdischarge / Overcurrent / Short circuit
Charging temperature	0 °C to 45 °C / 32 °F to 113 °F
Discharging temperature	-20 °C to 60 °C / -4 °F to 140 °F
Storage temperature	-20 °C to 45 °C (up to 3 months) / -20 °C to 20 °C (up to 1 year)
Cycle life	≥ 400 cycles
IP rating	IP65
Dimensions	71 × 19 × 19 mm / 2.80 × 0.75 × 0.75 in
Weight	0.05 kg / 1.76 oz

Battery charge status

	green	> 75 %
	orange	25 - 75%
	red	< 25%



*Note: Avoid carrying batteries in pockets or close to the body.
Dispose of batteries that are bloated, deformed, hot, or cracked.*

Battery Charger (not included)

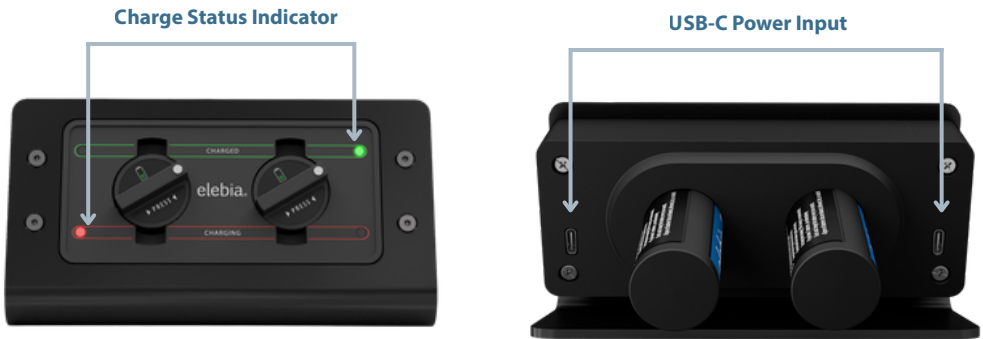
It is imperative to only use the battery charger specifically supplied by elebia for your R2 device. Using an unauthorized or incompatible charger can lead to serious consequences, including damage to the battery, reduced battery life, and even potential safety hazards such as overheating or fire.

Description

Model: R2 Power Station

Type-C Input: 5Vdc 4.2A

Output: 4.2Vdc 2A (per battery unit)



Note: This charger is designed to apply only with R2 Batteries. Do not attempt to use this charger with any other battery types, even if they appear physically similar, as this could result in damage to the non-R2 battery and potentially the charger itself.

Always ensure the charger and batteries are in good condition before use. If you notice any damage to the charger cable, plug, or the battery itself, discontinue use immediately and contact elebia support for assistance. Proper charging practices are crucial for maintaining the longevity and optimal performance of your R2 device.

Operation

1 Connect the power supply

Connect the USB Type-C power supply.



USB-C CONNECTION

2 Insert the battery

Align the battery correctly with the slot. Push it in, then turn clockwise until securely seated.



"PUSH"



"TURN"

3 Check charge status

Once the battery is inserted, the LED indicator on the charger shows the current charging state. Three possible states:



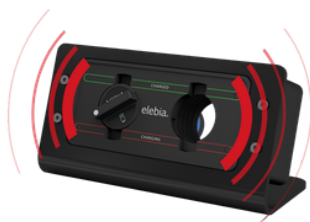
■ Charging

If correctly inserted, the red LED will illuminate, indicating that charging is in progress.



■ Charge complete

The LED turns green when the battery is fully charged and ready for use. Remove the battery and insert it into the R2.



Error — incorrect insertion

If the battery is incorrectly inserted, the LEDs remain off and the charger emits a beeping sound.

→ Remove the battery and reinsert it correctly.

Installation

 Operators must handle the R2 in compliance with local EHS regulations and use appropriate PPE.

- Secure Attachment:** Attach the R2 to the crane or spreader beam. Use rigging elements with an appropriate Working Load Limit (WLL) and geometry that do not restrict the rotational degrees of freedom. Ensure the connecting link hangs freely at the throat and can rotate without restriction in all directions

Correct use:

The connecting link rests at the throat of the hook and rotates freely in all directions.



Incorrect use:

Do not use an oversized hook. If the hook opening is too large, the connecting link of the R2 may become trapped inside the hook instead of resting correctly at the throat. This restricts the rotational degrees of freedom of the device, preventing proper load alignment and correct system operation.

- Battery Insertion:** Insert the battery, ensuring it is correctly oriented.
- Securing the battery:** Press and turn the battery clockwise to securely lock it in the working position.
- LED status:** The R2 will power on. Confirm the LEDs illuminate blue, indicating the hook is locked and ready for operation.



1



2



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Operation

LED Status Indicator

The R2 uses LEDs to communicate its status. Understanding these indicators is crucial for safe and efficient operation.

LED color code:

-  **Green:** Unlocked, release the load.
-  **Red:** Transition. DO NOT LIFT.
-  **Blue:** Locked, lift the load.
-  **White:** Indicates a low battery level (below 20%).
 - White and silent: The battery should be replaced soon but still can be operated.
 - White + Beep: Indicates a critically low battery level (below 10%). To prevent unsafe situations, the R2 will not accept any lock or unlock commands at this level. The battery must be replaced immediately.
-  **Off:** Indicates that the battery is depleted or the R2 unit is in a low power consumption state. To conserve battery life, the LEDs will illuminate steadily for 10 seconds following a state change, then transition to a flashing pattern. In 'eco' mode, when the R2 is idle, the LEDs will deactivate.

Note: If the R2 unit is locked (indicated by blue LEDs) and its battery depletes, the load will remain securely held.

Lift

- 1 Verify Hook Status:** Ensure the hook is closed and secured. The LEDs are blue. Lifting operations can be initiated.
- 2 Securing the battery:** Press and turn the battery clockwise to securely lock it in the working position.
- 3 Lift the Load:** Carefully lift the load. Only initiate the lift when it is correctly settled on the base of the hook and LEDs are blue.
- 4 Once the load is suspended:** the LEDs will turn off to indicate that the load is lifted. This also signifies that no further orders will be accepted for safety and battery conservation.



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4

PROHIBITED PRACTICES:



Do not place load on the tip of the hook.



Only one sling or masterlink into the hook (unless the Rigid Latch Option is installed - see p. 24).



Latch should not bear any load.

Release

1 > 2 > 3 > 4 > 5 > 6 > 7

Before proceeding, ensure the area is clear and it is safe to lower the load, it is stable and will not shift or topple after release.

- 1 When lowering a load,** the LEDs will remain off, signifying that the load is suspended.
- 2 Load Placement and Verification:** Carefully place the load on the ground. Once the load is fully supported on the ground and no longer suspended by the hook, the blue LEDs will illuminate. This indicates that it is safe to send the release command.
- 3 Release Command:** Send the release command.
- 4 Lock Transition:** The LEDs will turn red while the locking mechanism is transitioning. Do not move the crane during this time. The unlocking process should be instantaneous (less than one second). If the LEDs stay red, the locking pin is likely stuck because of tension. In this case, NEVER TRY TO LIFT! Lower the R2 unit and send the release command again.



1 > 2 > 3 > 4 > 5 > 6 > 7

- 5 Hook Unlocked:** Green LEDs will illuminate, indicating the hook is no longer locked, and the load can be released.
- 6 Release:** Raise the crane hook to disengage the sling.
- 7 Auto-Close:** The spring brings the hook back to its “closed” position.



5



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7

Lock

- 1 Once the sling is clear of the hook, the hook will automatically close and lock if the 'autolock' function is active. You can also lock it using the remote control or the hook button. The LEDs will turn solid blue, indicating the hook is closed, secured, and ready for the next lift.



Working modes and Smart features

Spring function modes

The R2 offers two spring-assisted modes of operation: 'Normally Closed' and 'Normally Open'. The R2's operating mode is configured at the time of order but can be changed subsequently. Mode changes require spring replacement and recalibration process. Contact your Elebia service representative or authorized distributor for assistance.

The following sections detail each mode:

1. Normally Closed (Default)

Operation: Upon receiving the open command, the R2 unlocks (indicated by a green light). The spring maintains the hook in the closed position, and the sling remains engaged. As the crane lifts, the sling pulls downward on the hook, opening it.

Once the sling is released, the spring closes the hook automatically. If Autolock is active, the LEDs will change from green to red to blue, signaling that the R2 is closed and lock secured, ready for the next lift.

+ ADVANTAGES

This feature removes the necessity for manual hook closure, thereby decreasing handling procedures and improving overall efficiency and safety.

- DRAWBACKS

The sling does not release until the crane moves upwards. Those customers who wish to see the sling falling free, might prefer the 'Normally Open' setup.

2. Normally Open

Operation: Upon receiving the open command, the R2 unlocks (indicated by a green light). The spring opens the hook, allowing the sling to fall.



1



2



Important: The hook will not open if the sling exceeds 3 kg. Always ensure the load is within the specified limit. This feature is designed for sling release, not for releasing loads while suspended, as this poses a significant safety risk.

Closing and Securing the Hook: Manually close the hook. The mechanism will engage, and the LEDs will change from green to red to blue, indicating the hook is closed and secured.

**1****2****3****+ ADVANTAGES**

The sling releases immediately upon sending the release command.

- DRAWBACKS

Requires manual closing of the hook.

Rigid Latch Option (optional configuration)

The R2 can be supplied with a rigid, load-bearing latch instead of the standard spring-loaded safety latch. This is the only configuration that allows more than one sling to be inserted into the hook, provided that:

- The total load does not exceed the R2 Working Load Limit (WLL).
- The load applied on the latch does not exceed 50% of the WLL.
- Working angles of the slings are respected according to standard rigging practice.

This option must be specified at the time of order.

Contact your Elebia service representative or authorized distributor for assistance.

eco mode (low consumption)

The R2 is delivered with the default 'eco' mode configuration, which conserves battery life when the device is idle.

Normally Closed (NC) Configuration:

- LEDs will turn off when a load is suspended from the hook.
- The R2 unit will become active again once the load is placed on the ground.

Normally Open (NO) Configuration:

- After the load is released, the hook will enter an idle state.
- The R2 unit will become active again once the hook is manually closed.

This mode is configurable by Elebia Service or authorized Elebia distributors by adjusting the "eco mode" parameter using an eMax or eLink device (Elebia's proprietary configuration tools).

- eco mode = 0: Low consumption mode is disabled.
- eco mode = 1: Low consumption mode is enabled.

Autolock mode:

(Only for 'Normally Closed' configuration)

The Autolock function automates the process of locking (securing) the R2 in the closed position after load release, preparing it for the next lift.

This mode is configurable by Elebia Service or authorized Elebia distributors by adjusting the 'Autolock' parameter using an eMax or eLink device (Elebia's proprietary configuration tools).

Two modes are available: Disabled and Enabled by Altimeter.

- **Disabled (Position 0):** In this mode, the user must manually send a lock command (via radio control or the R2 button) to activate the locking mechanism and secure the hook.
- **Enabled by Altimeter (Positions 1-9):** The R2 uses altitude changes to trigger locking. After load release, the altimeter records the initial height. The green LEDs will blink faster, indicating the R2 then monitors for a vertical displacement, as defined by the parameter setting (see table below). Once the specified vertical movement is detected, the R2 locks itself in the closed position.

Value	Mode	Description
0	Off	You need to manually send the close command to lock the hook.
1	on by altimeter (0.5 m)	Locks after a vertical movement of 0.5 m.
2	on by altimeter (1.0 m)	Locks after a vertical movement of 1 m.
3	on by altimeter (1.5 m)	Locks after a vertical movement of 1.5 m.
4	on by altimeter (2.0 m)	Locks after a vertical movement of 2 m.
5	on by altimeter (2.5 m)	Locks after a vertical movement of 2.5 m.
6	on by altimeter (3.0 m)	Locks after a vertical movement of 3m.
7	on by altimeter (3.5 m)	Locks after a vertical movement of 3.5m.
8	on by altimeter (4.0 m)	Locks after a vertical movement of 4 m.
9	on by altimeter (4.5 m)	Locks after a vertical movement of 4.5 m.

Open Retry

This feature allows the hook to retry the opening sequence multiple times if the initial command is not completed successfully.

Control Compatibility	Parameter Name
eMAX	RE-OPEN

Values: From 0 to 9.

Functionality: This is the number of times the hook will reattempt to open in case an order was received but not completed2.

Conformity Declaration

ELEBIA AUTOHOOKS, S.L.U., with registered office at Plaça Pere Llauger Prim, naus 10-11, Polígon Industrial Can Misser, 08360, Canet de Mar, (Barcelona), Spain, Tax Identification Certificate B65770265, and ISO 9001 Certificate No. 9000041

DECLARES:

Under its sole responsibility, that the R2 (operating load: 2,000 kg) complies with Directive 2006/42/EC (Machinery Directive) and Directive 2014/30/EU (Electromagnetic Compatibility Directive), and has been designed and manufactured in accordance with the following harmonised standards:

EN 10204 3.1.B; UNE-EN 1050; UNE-EN 1677-1:2001 + A1:2009; UNE-EN 1677-2:2001 + A1:2008; UNE-EN 60204-1:2007; UNE-EN 61000-6-4:2007; UNE-EN 61000-6-2:2006; UNE-EN ISO 12100:2012; D89/391/EEC; D89/654/EEC; D89/655/EEC; D89/656/EEC; D92/58/EEC 9a

The R2 hooks have been designed integrating the essential safety requirements of international lifting standards; however, due to their nature as an automatic device, certain provisions — particularly those relating to geometry — are met in a limited manner.

As stipulated by Directive on Machine Safety D2006/42/EC
CE symbol fixed to the R2.
Technical documentation filed on the manufacturer's site.

Authorised signatory:

Oscar Fillol Vidal

Person authorised to compile the technical file.

CEO of ELEBIA AUTOHOOKS



Barcelona, May 2026

End of Life

The life of the R2 is 20,000 load and unload cycles. Using the R2 beyond its designated service life can lead to serious safety risks, including potential failure during use, risk of breakage, and safety hazards for personnel.

Warranty

The warranty of the R2 hook is for 2 years and covers parts and labour for the use envisaged and recommended in the user manual. Batteries have a limited warranty of one year. Maintenance operations, and the materials and labour involved therein, are exempt from the warranty. Non-performance of checks and maintenance may lead to cancellation of the warranty.

This warranty is limited to the original end user of the lifting equipment and is subject to the equipment being inspected, controlled and maintained according to the manufacturer and dealer instructions throughout the warranty period. The warranty period is for 2 years from the purchase date and is subject to the conditions and measures given here.

Warranty will not be valid when any of the following measures are met:

- Overload.
- Wrong and/or carelessly use.
- Damages by not following procedures and measures.
- Damages by hoisting differing material other than indicated on the R2 hook or stated in the user manual.
- Adapting and/or modifying the R2.
- The injudicious use of the R2 hook, and not following all instructions which are stated in the user manual.
- When maintenance inspections have not been carried out by the authorised Elebia Autohooks SLU Technical Service.
- The manufacturer is not responsible for incidental damage, or damage due to wrong use of the lifting tools as well as from violation of this manual.

Inspection & Maintenance

This section defines the roles involved in the inspection and maintenance of the R2, and the responsibilities assigned to each. When receiving the R2, the client should designate a person for each role within their organization.

Operator

every lift

Person who uses the hook to carry out lifting operations. Does not require specific technical training.

Responsibilities: Visually supervise the hook before and during every lift. Report any anomaly immediately and stop the operation if needed.

Certified user

pre-shift & frequent

Person who has completed the R2 online product training. Ideally every operator should complete this training, although in practice not all will.

Responsibilities: Pre-shift inspection before each shift begins. Frequent inspection according to service level. If in doubt, contact Elebia helpdesk before proceeding.

Personnel designated by Elebia

periodic & repair

Person trained by Elebia to inspect and maintain the R2. Only role authorized to perform interventions on the hook mechanism, carry out repairs, and conduct periodic inspections.

Responsibilities: Periodic inspection (records required). Repair and servicing. Any intervention requiring hook disassembly or recalibration

Need help? For any questions or issues, please contact Elebia's Helpdesk by opening a ticket.
You can find the direct link in the Quick Links section on page 37.

Service definitions

Normal	Operation within rated load limit, averaging less than 65% of rated load.
Heavy	Operation within rated load limit exceeding normal service limits.
Severe	Normal or heavy service with abnormal operating conditions.

Inspection Intervals

Type	Who	Normal	Heavy	Severe
Frequent	Certified User	Monthly	Weekly/ Monthly	Daily/ Weekly
Periodic	Elebia	Yearly	Semi- annual	Quarterly

Need help? For any questions or issues, please contact Elebia's Helpdesk by opening a ticket.
 You can find the direct link in the Quick Links section on page 37.

Pre-shift Inspection

Who: Certified user — before each shift. No records required.

A certified user must verify that the R2 is in proper working condition before any lifting operations begin. The following checks must be performed at the start of each shift.

- The hook has sufficient degrees of freedom to align itself with the load
- CE plate is not missing.
- All structural parts show no visible signs of damage, deformation or modification.
- The hook range of motion is correct.
- The latch range of motion is correct.
- The hook is paired with the remote.
- LEDs are working properly.
- Rigger button works properly.
- Hook parameters are set according to the lifting procedure.
- Battery holds sufficient charge for the whole operation.

*Need help? For any questions or issues, please contact Elebia's Helpdesk by opening a ticket.
You can find the direct link in the Quick Links section on page 37.*

Every Lift Inspection

Who: Operator — before and during every lift

The operator must visually supervise the R2 before initiating each lift and continuously monitor its behaviour during the operation. Any anomaly must be reported immediately and the operation must be stopped.

- All structural parts show no visible signs of damage or deformation.
- Load is correctly settled on the base of the hook.
- Load is balanced, secured, and suitably fastened before lifting.
- The hook is able to align with the load.
- Battery holds sufficient charge for the operation (Do not start if battery is low).
- No individuals are within the area of the suspended load.
- During operation: monitor LED status and hook behaviour continuously. Stop immediately if any
- anomaly is detected.

*Need help? For any questions or issues, please contact Elebia's Helpdesk by opening a ticket.
You can find the direct link in the Quick Links section on page 37.*

Frequent Inspection

Who: Certified user — no records required

Frequent inspection shall be performed by a certified user. If any indication of damage is found, the unit must be removed from service and Elebia's helpdesk must be contacted.

Normal service	Heavy service	Severe service
Monthly	Weekly- monthly	Daily- weekly

- A visual inspection shall be carried out to check for the items listed in the Annex.
- Conditions such as the listed or any other condition that may result in a hazard, shall cause the R2 to be removed from service.
- The R2 shall not be returned to service until approved by a qualified person.
- Any indications of electrical contact or known instances of electric contact which could affect electrical function and/or dependability of indicators shall be a condition requiring removal from service until the hook can be checked.

Need help? For any questions or issues, please contact Elebia's Helpdesk by opening a ticket.
You can find the direct link in the Quick Links section on page 37.

Periodic Inspection

Who: Personnel designated by Elebia — records required

Periodic inspection shall be performed by Elebia-designated personnel. Records are required. The inspection points are the same as for the frequent inspection. The difference is that this role has the technical background to assess whether any indication of damage constitutes a hazard and determine if more frequent inspection is needed.

Normal service	Heavy service	Severe service
Yearly	Semi- annually	Quarterly

- A visual inspection shall be carried out to check for the items listed in the Annex.
- Conditions such as the listed or any other condition that may result in a hazard, shall cause the R2 to be removed from service.
- The R2 shall not be returned to service until approved by a qualified person.
- Any indications of electrical contact or known instances of electric contact which could affect electrical function and/or dependability of indicators shall be a condition requiring removal from service until the hook can be checked.

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Periodic Inspection Records

Date	Performed by	Equipment SN	Location	Service Type

Inspection Checklist

Check Item	Pass	Fail
Legible CE plate (WLL, serial number, SF, ...).		
LEDs fully operational.		
Complete hook range of motion.		
Proper safety latch movement (not applicable if rigid latch installed).		
Stretched, bent, twisted, distorted, elongated, cracked or broken load-bearing components.		
Excessive wear (more than 5%).		
Cracks, nicks or gouges.		
Excessive pitting or corrosion.		
Heat damage.		
Evidence of welding or modification.		
Total cycles are below the Service Life (20,000 cycles).		
Other conditions:		

Signature and/or Stamp

Quick Links



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