

eTrack Rail Lifting Clamp



elebia®
smart lifting solutions

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This user's manual covers the Application, Operation, Use and Maintenance of the elebia eTrack rail lifting clamp.



NOTE: disconnect power sources prior to handling.

Warning

Prior to operation and/or maintenance of elebia products, read and understand the information provided in this user's manual.

Failure to review and utilize recommended applications, operation and maintenance instructions may result in serious injury to operator and others.

It is the sole responsibility of the operator to ensure the correct manipulation and handling of any load while using any of the elebia products. Automated processes in any lifting operation, whether attaching and/or releasing any load, or other, must always be submitted to visual inspection of the operator. elebia designs and produces automated lifting solutions which enhance safety and productivity but can never replace the responsible and provident handling of all lifting processes.

General Information regarding the eTrack rail lifting clamp

Users must be aware of all operating conditions. Please contact our technical service in case of doubts and/or questions.

- The eTrack rail lifting clamp has specifically been designed for the lifting, transporting/moving and dragging of singular rail sections.
- The Working Load Limit of 2,000 kg. / 4,409 lb. indicated is per rail lifting clamp.
- Safety factor of 4:1.
- The eTrack rail lifting clamp has been tested on the following rails: 56E1, 60E2 rail profiles and 75 conductor rails.

General Precautions

Inappropriate use of the eTrack rail lifting clamp may give place to potentially dangerous situations and, if not prevented, these could lead to death or serious injury. To avoid such situations we encourage to meet the following instructions:

1. Always read the user's manual instructions before using the eTrack rail lifting clamp.
2. Any operator must be familiarised with the eTrack rail lifting clamp's operation controls, procedures and warnings.
3. DO NOT operate the eTrack rail lifting clamp before having completely read and understood the manufacturer's user manual and instructions.
4. DO NOT operate the eTrack rail lifting clamp if it has been altered without the manufacturer's approval.
5. DO NOT operate the eTrack rail lifting clamp if it is not working properly or if working unusually.
6. DO NOT operate the eTrack rail lifting clamp nor repair it if it is damaged or lacks components.

7. DO NOT lift more than the Working Load Limit of 2,000 kg. / 4,409 lb. indicated per eTrack rail lifting clamp and included in the CE stamp.
8. DO NOT use the eTrack rail lifting clamp to lift, sustain or transport people.
9. DO NOT lift loads over people and ensure that people remain at a distance from the load.
10. DO NOT operate the eTrack rail lifting clamp unless all people are, and remain outside, the area of the sustained load.
11. DO NOT operate the eTrack rail lifting clamp if there are people touching or manipulating it.
12. DO NOT lift the load until the closure system of the eTrack rail lifting clamp is confirmed locked.
13. DO NOT operate the eTrack rail lifting clamp if it does not meet the lifting procedure specified in sections 11 & 12 of the user manual.
14. DO NOT leave the weight sustained on the eTrack rail lifting clamp unattended unless specific precautions have been taken.
15. DO NOT allow the use of the eTrack rail lifting clamp to make electrical or earth contact in welding operations.
16. DO NOT withdraw nor cover the warning signs of the eTrack rail lifting clamp.
17. DO NOT operate the eTrack rail lifting clamp if it lacks the safety signs or if they are illegible.
18. DO NOT modify the eTrack rail lifting clamp (by welding, grinding, etc.), as this can adversely affect its operation and safety.
19. Provide notification of any malfunction or abnormal performance of the eTrack rail lifting clamp after it has been disconnected for its repair.
20. The eTrack rail lifting clamp must be stored clean and in a non-humid area to protect against corrosion.
21. DO NOT store the eTrack rail lifting clamp with the battery inserted.
22. Remove all grit, dirt and mud before storing the eTrack rail lifting clamp.
23. Check fasteners for integrity and tightness before every use.

Restrictions

- Influences resulting from temperature

The eTrack rail lifting clamp has been designed to be used in normal atmospheric conditions and in a temperature range from $-20\text{ }^{\circ}\text{C}$ to $60\text{ }^{\circ}\text{C}$ / $-4\text{ }^{\circ}\text{F}$ to $140\text{ }^{\circ}\text{F}$. The eTrack rail lifting clamp must not be used if these conditions are not met.

- Influences from acids/alkalines and chemicals

The eTrack rail lifting clamp must not be exposed to acids/alkalines or their vapours, as certain production methods may release acids and/or vapours.

Main Features of the eTrack Lifting Clamp

High Brightness LED Status Indicator

Green: Rail Lifting Clamp is Unlocked / Release Load

Red: Intermediate: Do Not Lift!

Blue: Lifting Clamp is Locked / Lift & Manoeuvre Load.

White: Low battery.

High Capacity Battery

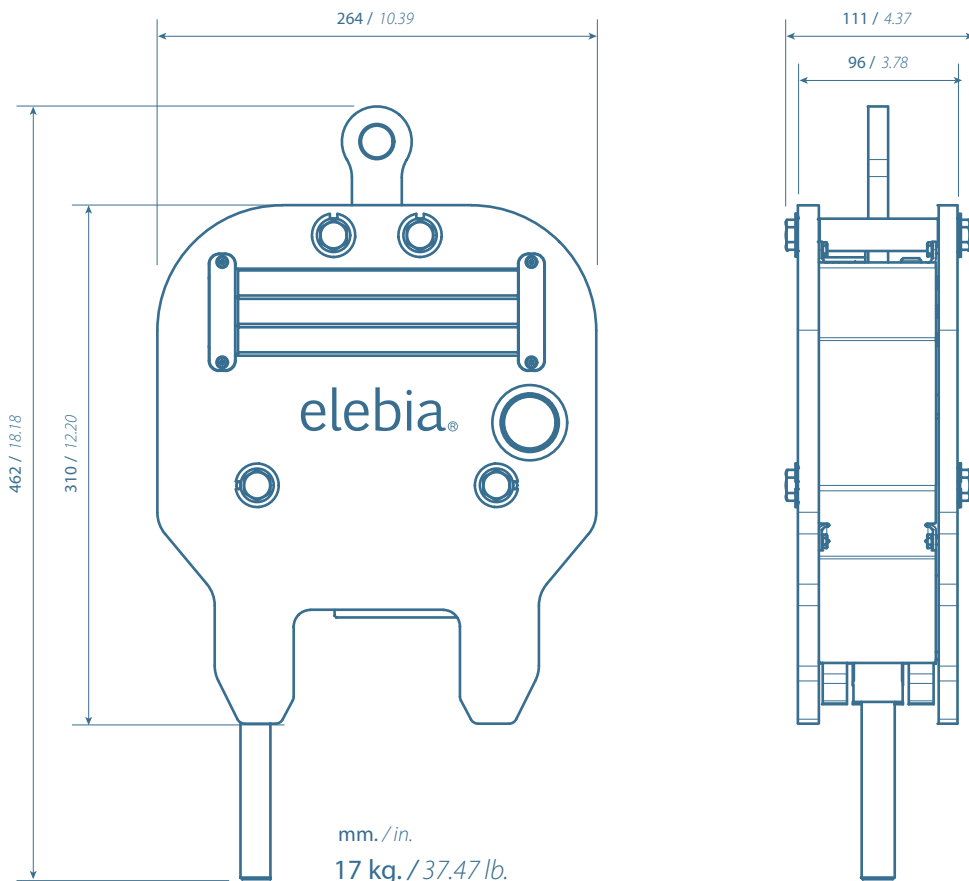
Manual Operation Button

Autoclose Sensor

Finger



Specifications



Regulatory Standards



Our Products certify with the following regulatory standards:

EN 10204 3.1.B
 ETSI EN 300 220-1 V3.1.1
 ETSI EN 300 220-2 V3.1.1
 ETSI EN 303 446-1 V1.1.0
 ETSI EN 303 446-2 V1.1.0
 UNE-EN 1050

UNE-EN 13135:2013
 UNE-EN 60204-1:2007
 UNE-EN 60730-1:2013
 UNE-EN 61000-6-4:2007
 UNE-EN 61000-6-2:2006
 UNE-EN ISO12100:2012

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

Each eTrack rail lifting clamp is delivered with the CE stamp and a declaration of CE conformity

Remote Control



IP65



The eTrack rail lifting clamp can be paired to the eMAX remote control, the eMINI remote control and/or the eINST installable remote control.

eMINI

The eMINI is a small and compact remote control. With the eMINI remote control, the operator can open and close the eTrack rail lifting clamp and control its battery level. The eMINI also displays sensor information and maintenance messages.

For more information on the eMINI remote control, please refer to the eMINI remote control user manual (downloadable from <https://elebia.com/downloads/>)



Working Modes

The remote can work in 2 different modes:

> 'One button' mode:

'elebia' button: locks and unlocks the eTrack rail lifting clamp

> 'Two buttons' mode:

'elebia' button locks the eTrack rail lifting clamp
'mode' button: unlocks the eTrack rail lifting clamp

To switch between modes, press and hold the 'elebia' button for 10 seconds.

Display Information

- 0 to 9: Battery level of the eTrack rail lifting clamp
- A: Low battery level of the eMINI remote control
- C: Maintenance review of the eTrack rail lifting clamp
- 1b: One button mode
- 2b: Two buttons mode
- b: The eMINI remote control does not detect the eTrack rail lifting clamp
 - battery is not inserted
 - battery is off
 - battery is discharged

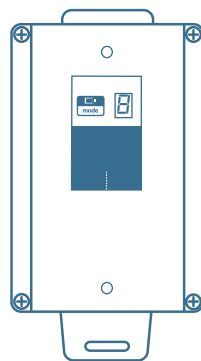
Power Supply	1 3V lithium battery (CR2032)
Available Code Combinations	65,536 different combinations
Detection of Errors in Transmission	2 CRC bytes + Forward Error Correction
Buttons	2
Frequency Selection	1
Frequencies	868 MHz / 924.1 MHz
Communication	Bi-directional return of receiver battery status
Radiated Power	under 5 dBm
Antenna	Printed circuit
Range	100 metres / 330 Feet
Working Temperature	-20 °C to 85 °C / -4 °F to 185 °F
Dimensions	Minitel box (68 x 52 x 17 mm. / 2.68 x 2.05 x 0.67 in.)

eINST

The eTrack rail lifting clamp 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.

Available as 24 V DC or 48 V DC

Dimensions: 80 x 140 x 45 mm. / 3.15 x 5.51 x 1.77 in.



eMAX

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.

For more information on the eMAX remote control, please refer to the eMAX remote control user manual (downloadable from <https://elebia.com/downloads/>)



FCC, IC, CE & ARIB

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

Any changes or modifications not expressly approved by the warranty of this device could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and receiver.

Battery

The battery status is indicated by a 14 segment E-ink display. The battery is fully charged when the 14 E-ink segments are black, and as the battery discharges the segments turn white. The battery is completely discharged when all 14 E-ink segments are white.

High capacity: 3 hour charge – 5,000 cycles / 250 hours in standby mode.

For more information about the battery, please refer to the evo2 battery user manual (downloadable from <https://elebia.com/downloads/>)



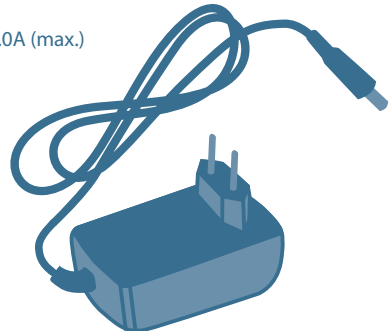
Technology	Rechargeable Li-Ion
Maximum Voltage	12.4 V DC
Nominal Voltage	10.95 V DC
Nominal Capacity	3.2 Ah DC
Protection Circuit	Charge, Discharge, Overvoltage
Maximum Discharge Current	6.4 A
Charge Indicator	E-ink 14 Segment Display
Temperature (Charge)	0 °C to 45 °C / 32 °F to 113 °F
Temperature (Discharge)	-20 °C to 50 °C / -4 °F to 122 °F
Temperature (Idle)	-20 °C to 60 °C / -4 °F to 140 °F
Weight	150 g. / 5.29 oz.

Charger

Technical Specifications:

Input Voltage	100-240 V AC / 50-60Hz. 1.0A (max.)
Output	12.6 V DC / 1.2A
Charge Indicator	No
Charge Complete Indicator	No

For more information about the charger, please refer to the evo2 battery user manual (downloadable from <https://elebia.com/downloads/>)



Lifting Procedure

Engage

01



The eTrack rail lifting clamp approaches...

02



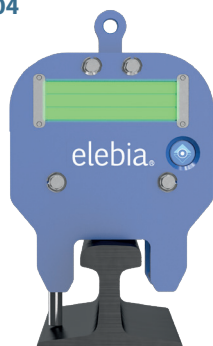
... orients and positions itself directly on the rail thanks to the finger.

03



Once in position, the crane descends.

04



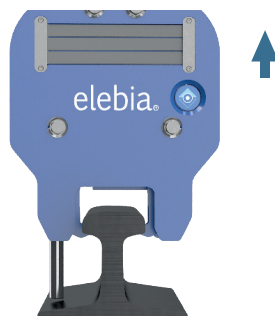
... the spring loaded finger retracts and allows the clamp to make contact with the rail.

05



The eTrack rail lifting clamp automatically unlocks the grabbing mechanism.

06



Rail(s) can be lifted.

Lifting Procedure

Release

01



Once the rails are safely
on the desired surface...

02



... and there is no tension on
the lifting accessory (Blue
colour in LED status indicator)

03



The release order can be
given via remote control.
(GREEN colour in LED
status indicator)

04



Load is safely released.

Conformity Declaration and Manufacturer's Certificate

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 following eTrack Rail Lifting Clamp, with serial number _____, with a maximum operating load of 2,000 kg., complies with the EC Machinery Directive 2006/42/EC of the European Parliament and of the Council, of 22 June 1998, on the approximation of the laws of the Member States relating to machinery, and 2004/108/EC, on the approximation of the laws of the Member States relating to electromagnetic compatibility, and has been manufactured in accordance with the following harmonised standards:

EN 10204 3.1.B, ETSI EN 300 220-1 V3.1.1, ETSI EN 300 220-2 V3.1.1, ETSI EN 303 446-1 V1.1.0, ETSI EN 303 446-2 V1.1.0, UNE-EN 1050, UNE-EN 13135:2013, UNE-EN 60204-1:2007, UNE-EN 60730-1:2013, UNE-EN 61000-6-4:2007, UNE-EN 61000-6-2:2006, UNE-EN ISO12100:2012

As stipulated by Directive on Machine Safety D2006/42/EC

- CE symbol fixed to the lifting hook.
- Technical documentation filed in manufacturer's site.

Authorised signatory:

Oscar Fillol Vidal

Person authorised to compile the technical file

CEO of ELEBIA AUTOHOOKS



Barcelona, 15 May 2019

Date: Observations:	Date: Observations:
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Date: Observations:

Warranty

The warranty of the eTrack rail lifting clamp is for 2 years and covers parts and labour for the use envisaged and recommended in the user manual. Batteries and 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.

Distributor / Service:

Date:

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 producer and dealer instructions throughout the warranty period. The warranty period is 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 eTrack rail lifting clamp or stated in the user manual.
- Adapting and/or modifying the eTrack rail lifting clamp.
- The injudicious use of the eTrack rail lifting clamp, and not succeeding all indications which are stated in the user manual.
- When maintenance inspections have not been carried out by the authorised elebia 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

At least once a year, or in case of any damage to the eTrack rail lifting clamp, the clamp should be inspected, tested and if necessary returned to Elebia Autohooks SLU Technical Service for review. The frequency of inspections and tests may vary according to the intensity and type of use.

Proper maintenance of the eTrack rail lifting clamp will lengthen its useful life. It is the user's responsibility to respect the General Precautions, Warnings and Restrictions included in this user's manual, to undertake the corresponding inspections, and to withdraw the product in the event of deterioration or malfunction.

Frequent visual inspection to detect cracks, deformations and wear and inspection of crucial parts is recommended. In the event of cracks or deformations of over 1%, the mechanism must be withdrawn.

Maintenance Check

Date: Observations:	Date: Observations:
Date: Observations:	Date: Observations:
Date: Observations:	Date: Observations:
Date: Observations:	Date: Observations:
Date: Observations:	Date: Observations:

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