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S40 Automatic Shackle USER MANUAL



elebia®

smart lifting solutions

How to obtain your certificate

01

Download the user manual
from Elebia's website
or through this QR code.



02

Read the user manual.

03

Take the certification exam

04

Once a year,
you'll be reminded
to update your certification



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Table of Contents

- 4** General Information
- 4** General Precautions
- 5** Restrictions
- 6** Main Features of the S40 Automatic Shackle
- 7** Specifications
- 8** Regulatory Standards
- 9** Remote Controls
- 10** FCC, IC, CE & ARIB
- 11** S40 Automatic Shackle Battery & Chargers
- 11** Installation
- 12** Lifting Procedure
- 14** Warning
- 15** Warranty
- 16** Conformity Declaration & Manufacturer's Certificate
- 18** Maintenance



This user's manual covers the Application, Operation, Use and Maintenance of the patented S40 Automatic Shackle.



It is mandatory to read and understand this manual and procedure before using the S40.

ONLY QUALIFIED PERSONNEL CAN OPERATE THE S40.

OBTAI YOUR CERTIFICATE SCANNING THE QR CODE.



The S40 Automatic Shackle features a powerful magnet. Do not approach it with metal items. Magnetic cards, credit cards, pacemakers, hard disk and other magnetic elements may be damaged if brought close to the magnet.

Bear in mind that the magnet is strong enough to transport relatively heavy metallic elements unintentionally. NOTE: Disconnect all 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 S40 Automatic Shackle

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

- The S40 Automatic Shackle has specifically been designed for the lifting and transporting/moving of loads.
- The Working Load Limit is indicated per lifting hook and included in the CE plate.
- Safety factor of 4:1.

General Precautions

Inappropriate use of the S40 Automatic Shackle may give place to potentially dangerous situations and, if not prevented, these could lead to serious injury or death. To avoid such situations, we encourage to meet the following instructions:

1. Always read the user's manual instructions before using the S40 Automatic Shackle.
2. Any operator must be familiarised with the S40 Automatic Shackle's operation controls, procedures and warnings.
3. DO NOT operate the S40 Automatic Shackle before having completely read and understood the manufacturer's user manual and instructions.



4. DO NOT operate the S40 Automatic Shackle if it has been altered without the manufacturer's approval.
5. DO NOT operate the S40 Automatic Shackle if it is not working properly or if working unusually.
6. DO NOT operate the S40 Automatic Shackle nor try to repair it if it may be damaged or lacks components.
7. DO NOT operate the S40 Automatic Shackle if it has not been properly secured.
8. DO NOT lift nor pull more than the working load limit that is indicated per S40 Automatic Shackle and which is included in the CE stamp.
9. DO NOT use the S40 Automatic Shackle to lift, sustain or transport people.
10. DO NOT lift loads over people and ensure that people remain at a safe distance from the load.
11. DO NOT operate the S40 Automatic Shackle unless all people are, and remain outside, the area of the sustained load.
12. DO NOT operate the S40 Automatic Shackle if there are people touching or manipulating it.
13. DO NOT lift loads unless lifting accessories are of the correct size and suitably fastened to the S40 Automatic Shackle.
14. DO NOT operate the S40 Automatic Shackle with worn or damaged lifting accessories.
15. DO NOT use the S40 Automatic Shackle's magnet to lift loads.
16. DO NOT lift loads that are unbalanced or not secured or if the load is not suitably fastened. Any slackness must be carefully tightened.
17. DO NOT leave the weight sustained on the S40 Automatic Shackle unattended unless specific precautions have been taken.
18. DO NOT attempt to open the S40 Automatic Shackle with a suspended load.
19. DO NOT allow the use of the S40 Automatic Shackle to make electrical or earth contact in welding operations.
20. DO NOT allow the S40 Automatic Shackle or lifting chains to be touched by a live welding electrode.
21. DO NOT withdraw nor cover the warning signs of the S40 Automatic Shackle.
22. DO NOT operate the S40 Automatic Shackle if it lacks its safety signs or if they are illegible.
23. DO NOT operate the S40 Automatic Shackle if it is not in a vertical position.
24. DO NOT modify the S40 Automatic Shackle (by welding, grinding, etc.), as this can adversely affect its operation and safety.
25. Provide notification of any malfunction or abnormal performance of the S40 Automatic Shackle after it has been disconnected for its repair.
26. The S40 Automatic Shackle must be stored clean and in a non-humid area to protect against corrosion.
27. DO NOT store the S40 Automatic Shackle with the battery inserted.
28. Do not use the magnet to transport loads. They might fall and cause harm.
29. Don't transport any load lighter than 30 kg/64,4lbs.

Restrictions

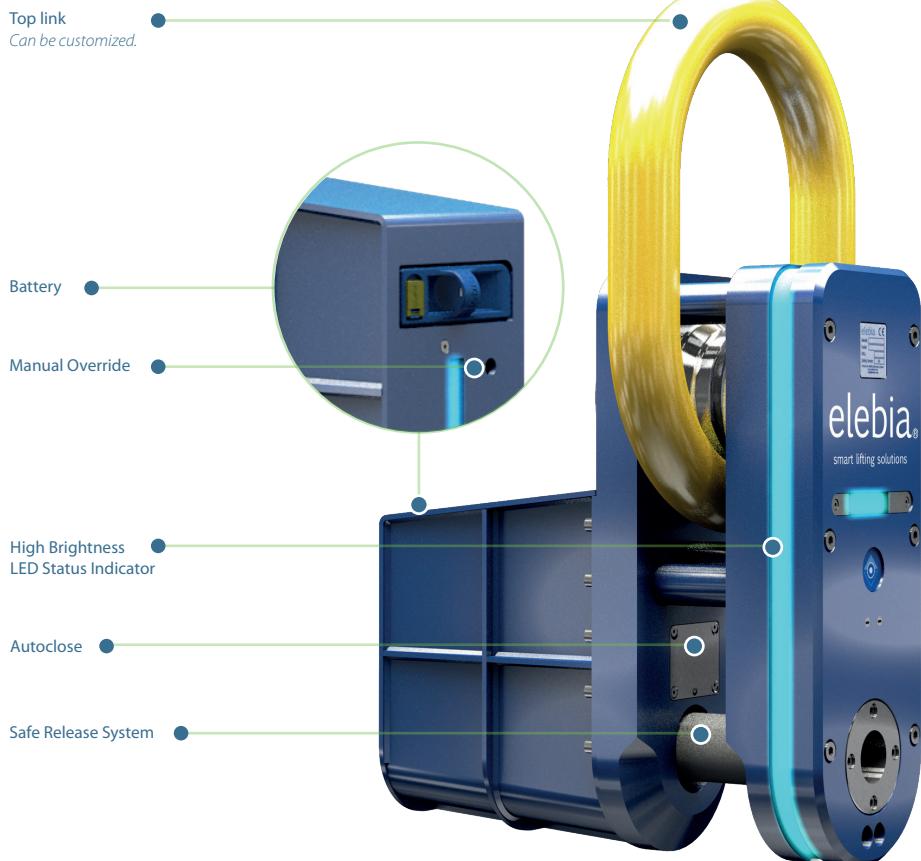
· Influences resulting from temperature

· The S40 Automatic Shackle has been designed to be used in a temperature range from -20 °C to 60 °C / -4 °F to 140 °F.

· Influences from acids/alkalines and chemicals:

The S40 Automatic Shackle must not be exposed to acids/alkalines or their vapours.

Main Features of the S40 Automatic Shackle



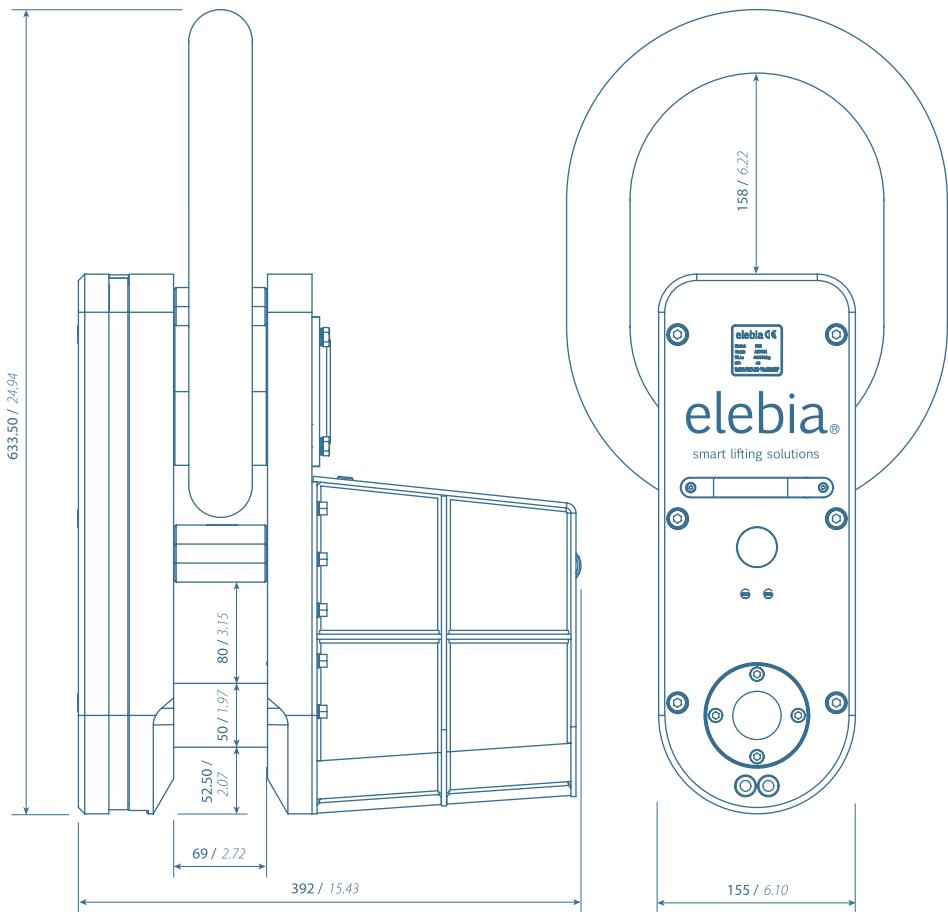
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Specifications

WEIGHT 81 Kg / 179 lbs



WORKING LOAD LIMIT 40,000 Kg / 88,184 lbs

MAXIMUM RELEASEABLE WEIGHT 30 Kg / 64.4 lbs



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Regulatory Standards



EN 10204 3.1.B
 UNE-EN 1050
 UNE-EN 602041:2007
 UNE-EN 61000-6-4:2007

UNE-EN 61000-6-2:2006
 UNE-EN ISO12100:2012
 UN 38.3
 D89/391/EEC

D89/654/EEC
 D89/655/EEC
 D89/656/EEC
 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



The patented S40 Automatic Shackle can be paired to the eMax, eMini, elnst and eLink remote controls. For the optimal and safe use of the S40 automatic shackle, we recommend using the eLink remote control device.

eMINI (Not included)

The eMINI is a small and compact remote control. With the eMINI remote control, the operator can open and close the the s40 lifting shackle and control its battery level. The eMINI also displays sensor information and maintenance messages.



Display Information

0 to 9: Battery level of the evo lifting hook
 A: Low battery level of the eMINI remote control
 C: Maintenance review of the the s40 lifting shackle
 b: The eMINI remote control does not detect the s40 lifting shackle

For more information on the eMINI remote control, please refer to the eMINI remote control user manual visiting www.elebia.com/downloads



| | |
|-------------------------------------|--|
| Power Supply | One 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 (Not included)

The S40 Automatic Shackle 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 S40 Automatic Shackle is in intermediate position.

Power supply 10VDC to 60V DC

Dimensions: 100 x 100 x 40 mm. / 3.94 x 3.94 x 1.57 in.

For more information on the eINST remote control, please refer to the eINST remote control user manual.

www.elebia.com/downloads



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.

For more information on the eMAX remote control, please refer to the eMAX remote control user manual.

www.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.

S40 Battery (not included)

| | |
|---------------------------|---------------------------------------|
| Technology | Rechargeable Li-Ion |
| Maximum Voltage | 25.2 V DC |
| Nominal Voltage | 22.2 V DC |
| Nominal Capacity | 2,6 Ah / 56,16 Wh |
| Protection Circuit | Charge, Discharge, Overvoltage |
| Maximum Discharge Current | 7.8 A for 1 second (idle time 5s) |
| Heat Protection | Thermal 70 °C / 158 °F |
| Charge Indicator | Display on 4 LED (25%- 5%- 75%- 100%) |
| 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 | 400 g / 14.10 oz. |

- Charging time: 3h (using elebia charger)

For more information on the S40 Automatic Shackle Battery, please refer to the S40 Automatic Shackle Battery control user manual. www.elebia.com/downloads





S40 Automatic Shackle 100-240V Battery Charger (Not included)

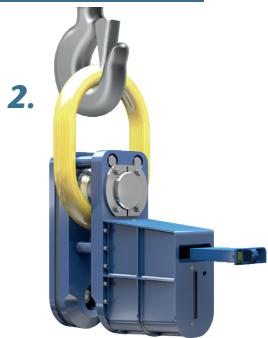
Technical Specifications:

| | |
|---------------------------|--------------------------------------|
| Input Voltage | 100-240 V AC / 50-60Hz. 0.15A (max.) |
| Output | 25.2 V DC / 1A |
| Charge Indicator | Yes, by red LED |
| Charge Complete Indicator | Yes, by green LED |

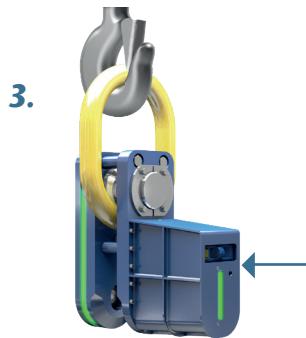
Installation



1.



2.



3.

Attach the S40 Automatic
Shackle to the crane...
(battery must not be installed).

...insert the battery...

...turn on the battery by
pressing the ON/OFF button.



Operators must handle the S40 in compliance with the local EHSR using PPE according to it.
Make sure that the S40 can move freely on its attachment point. This will allow the S40 to align itself with the load.

Color code



Steady Green: S40 is open and the autoclose function is disabled.



Flashing Green: S40 is open and the autoclose function is enabled.



Red: Warning! The S40 is in transition—caution required! The load is not secured, and the pin is moving. Lifting the load while LEDs are red may damage the device, potentially causing load loss and posing a serious hazard to workers.



Steady Blue: Load is not suspended, S40 is ready to retract the pin.



Flashing Blue: Load is suspended, pin is secured.



Steady White: Low Battery.



Automatic engage Procedure



WARNING!

The s40 contains a very powerful magnet and motor. Be very careful during the manual engagement process to avoid any hand and finger injuries.

Do not move the crane while the safety pin S40 is in motion (red LEDs). This may result in the destruction of the S40 and consequently the loss of the load.

1.



Approach the S40 to the lifting point.
(Flashing green LEDs)

2.



Carefully align the S40 with the lifting point hole.
(Flashing green LEDs)

3.



Gradually lower the S40 until it securely rests on the lifting point.
(Flashing green LEDs)

4.



Fine-tune the height by moving the S40 slowly up and down. The autoclose system will detect when the S40 pin aligns with the lifting point hole. At that moment, the LEDs turn red as the S40 inserts the pin into the hole.

(LEDs turn red)

4b.



At this point, the crane operator should stop immediately. Lifting while LEDs are red is unsafe, and will damage the S40. It is advised the use of the elink to automatically block or limit the speed of the crane's Z-axis while LEDs are red.

5.



When the LEDs turn blue, the pin is fully secured, and the load is ready to be lifted



Releasing Procedure



WARNING! Do not move the crane while the safety pin S40 is in motion (red LEDs). This may result in the destruction of the S40 and consequently the loss of the load.

1.



Load is suspended and secured.

(Flashing blue LEDs)

2.



Place the load on the ground.

Once the blue LEDs turn solid, the load is no longer on the pin, and the S40 is ready to release.

3.



Send the release command.

Red LEDs indicate that the locking pin is in the process of retracting. Do not move the crane during this time. Avoid lifting or moving the crane while the LEDs are red. This could result in dropping the load or damaging the S40 mechanism

4.



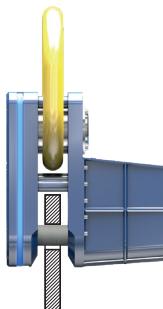
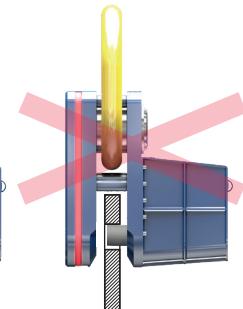
Once the pin is fully open (indicated by solid green LEDs), the autoclose function is temporarily disabled. This allows you to safely lift the S40 without the pin accidentally closing during the lifting process.

*After one minute, the autoclose function will reactivate automatically (LEDs will change from solid green to flashing green). The crane can then begin another lifting operation.

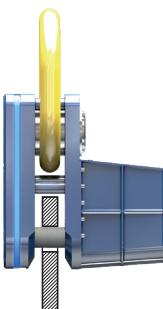
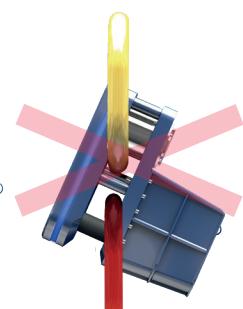


Warning

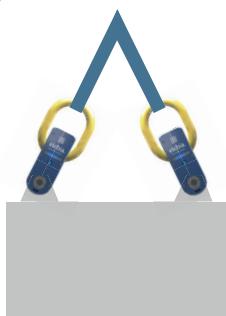
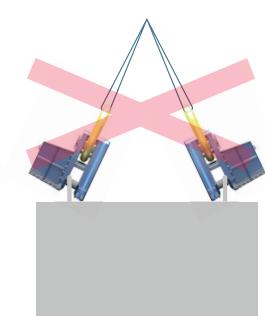
1. DO NOT lift the load until the S40 Automatic Shackle is completely closed!

DO

DON'T


2. To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin. To ensure optimal load distribution, the lifting accessory must have a thickness of at least 75% of the shackle's inside width. If the accessory's thickness falls below this limit, use [specify spacer type, e.g., "steel"] spacers to achieve the required thickness, ensuring the load remains centered along the pin.

DO

DON'T


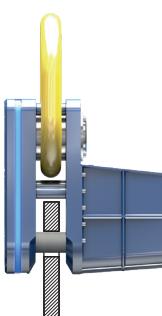
3. The rigging accessory must allow the load to align with the S40. Preventing the appearance of bending moments.

DO

DON'T


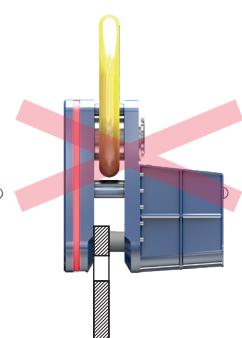


4. Ensure that the rigging attachment is securely attached to the S40 and not trapped by the S40 pin.

DO

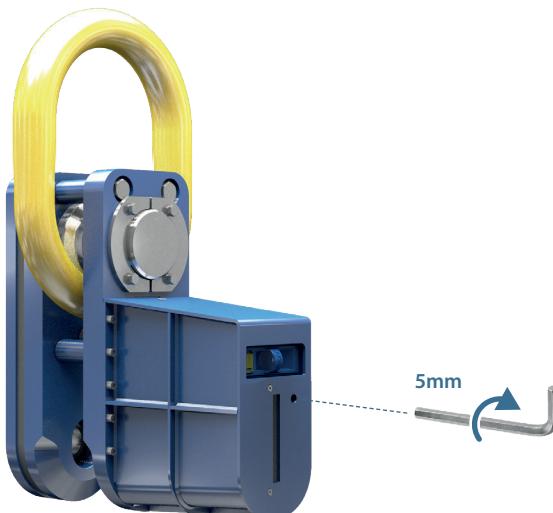


DON'T



Manual Override

In the event of electrical/electronic failure, the pin movement can be manually overridden. To do this, simply insert a 5mm Allen wrench into the hole provided. Turn the wrench according the direction you want the pin to move.



Warranty

The warranty of the S40 Automatic Shackle 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.

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 S40 Automatic Shackle or stated in the user manual.
- Adapting and/or modifying the S40 Automatic Shackle.
- The injudicious use of the S40 Automatic Shackle, and not succeeding all indications 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.

End of life

Service Life (SL)=20.000 cycles . The device must be removed from service once the SL is reached. Using the S40 beyond its designated service life, can lead to serious safety risks, including potential failure during use, breakage and safety hazards for personnel and equipment.

NOTE: Units with custom link: Service Life is reduced to 20.000 cycles.



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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 S40 Automatic Shackle, model _____, with serial number _____, with a maximum operating load of _____ 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; 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

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

- CE symbol fixed to the S40 Automatic Shackle
- Technical documentation filed in manufacturer's site

Authorised signatory:

Oscar Fillol Vidal

Person authorised to compile the technical file

CEO of ELEBIA AUTOHOOKS



Barcelona, February 2025



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Inspection and Maintenance

The purpose of this document is to set the guidelines for inspection and maintenance of S40.

Definitions

Normal service: service that involves operation with various weights within the rated load limit, averaging less than 65% of rated load limit.

Heavy service: service that involves operation within the rated load limit that exceeds the limits of normal service.

Severe service: service that involves normal or heavy service with abnormal operating conditions.

Inspection

New S40 shall be inspected by a designated person prior to initial use.

Repaired S40s shall be inspected by a designated person.

Inspection Intervals

S40 shall be inspected at different intervals. These are every, lift, frequent, periodic. The periodicity of these intervals depends on the service level.

Every lift and frequent inspections must be conducted by a certified user.

Periodic inspections must be carried out by personnel designated by Elebia.

Pre-shift and Every Lift Inspection

It is the responsibility of the operator to inspect the following items before every shift and every lift for any indication of damage or malfunctioning. This includes making observations during operation for any damage, misused or malfunctioning that might occur during the lift.:

- CE plate with the WLL is not missing
- LEDs are fully operational
- Any structural part shows any signs of deformation nor cracks.
- The pin range of motion is complete, with the LEDs displaying the following colours: blue when the pin is fully closed, green when it is fully open and red when it is in transition.
- The pin floating system is fully operational. The pin must move downwards when loaded. The LEDs going from steady blue to flashing blue.
- The S40 can freely align with the load forces. Check both, connection to the crane and to the load.

Frequent Inspection

Frequent inspection shall be performed by the operator or other designated person. No records are required. Inspection intervals depend on the service as follows:

Normal service: monthly

Heavy service: weekly to monthly

Severe service: daily to 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 S40 to be removed from service. The S40 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.

Periodic Inspection

Periodic inspection shall be performed by a qualified person. Records are required. Inspection intervals depend on the service as follows:

Normal service: yearly

Heavy service: semi-annually

Severe service: quarterly

A qualified person shall determine whether any indications of damage constitute a hazard or will require more frequent inspection.

A complete inspection shall be carried out to check for the items listed in the Annex.

Any unauthorized modifications shall be a condition requiring removal from service.

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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Annex. Periodic Inspection Record Document

Inspection Details

| Date | Performed by | Equipment SN | Location | Service Type |
|----------------|--------------|--------------|----------|--------------|
| | | | | |
| Partial Cycles | | Total Cycles | | |

Inspection Checklist

| Check Item | Pass | Fail |
|---|------|------|
| Legible CE plate (WLL, serial number, SF, ...) | | |
| LEDs fully operational | | |
| Complete pin range of motion | | |
| Pin floating system fully operational | | |
| Stretched, bent, twisted, distorted, elongated, cracked or broken load-bearing components | | |
| Excessive wear | | |
| Cracks, nicks or gouges | | |
| Excessive pitting or corrosion | | |
| Heat damage | | |
| Evidence of welding or modification | | |
| Total cycles are below the Service life | | |
| Other conditions: | | |

Signature and/or Stamp



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23

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smart lifting solutions



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