

HARKEN®

SNATCHET

INSN65R

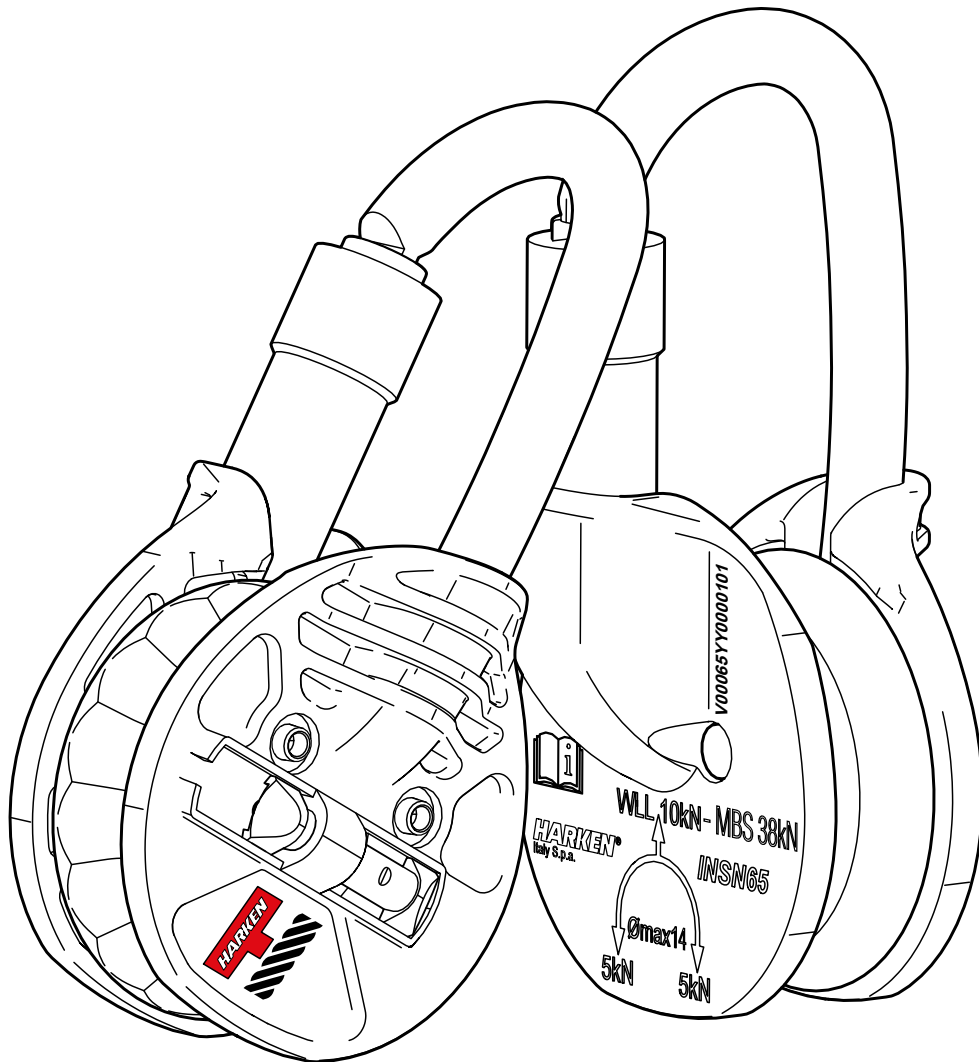
CE 2008 EN 362:2004/M

ANSI Z359.12-2019

INSN65

CE 2008 EN 362:2004/M
EN 12278:2007

ANSI Z359.12-2019



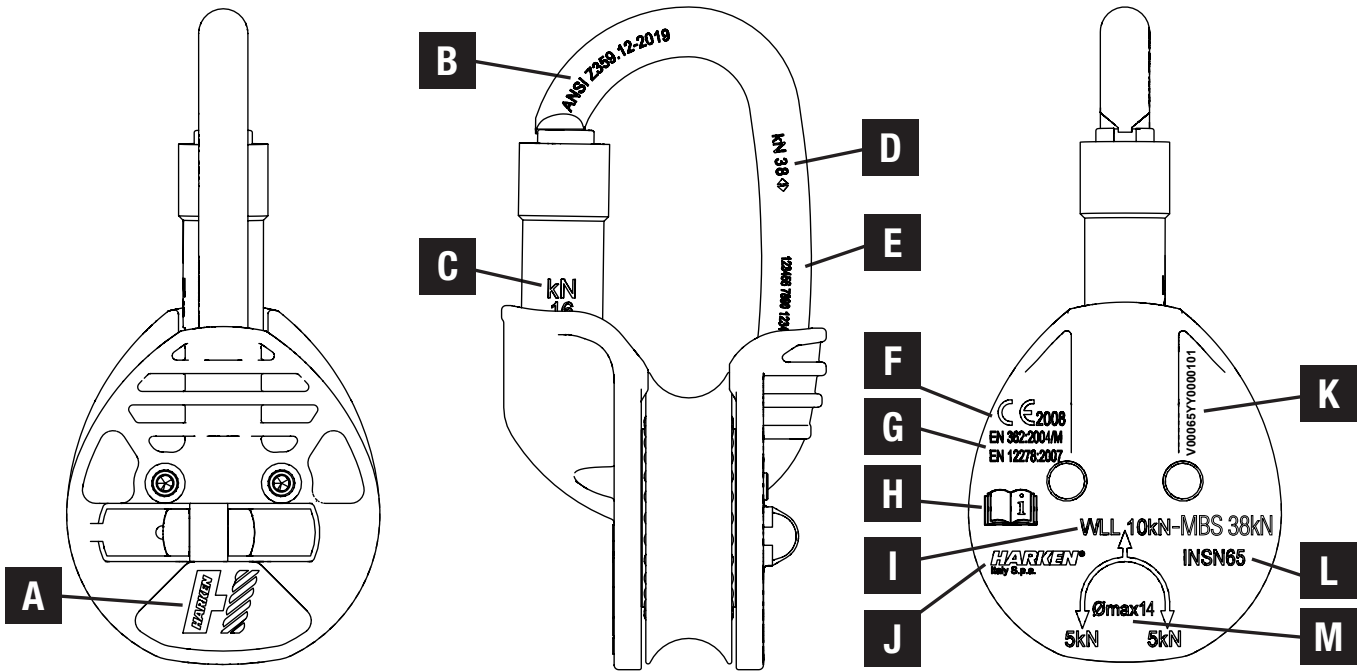
$\varnothing \leq 14$ mm (INSN65)

$9 \leq \varnothing \leq 14$ mm (INSN65R)

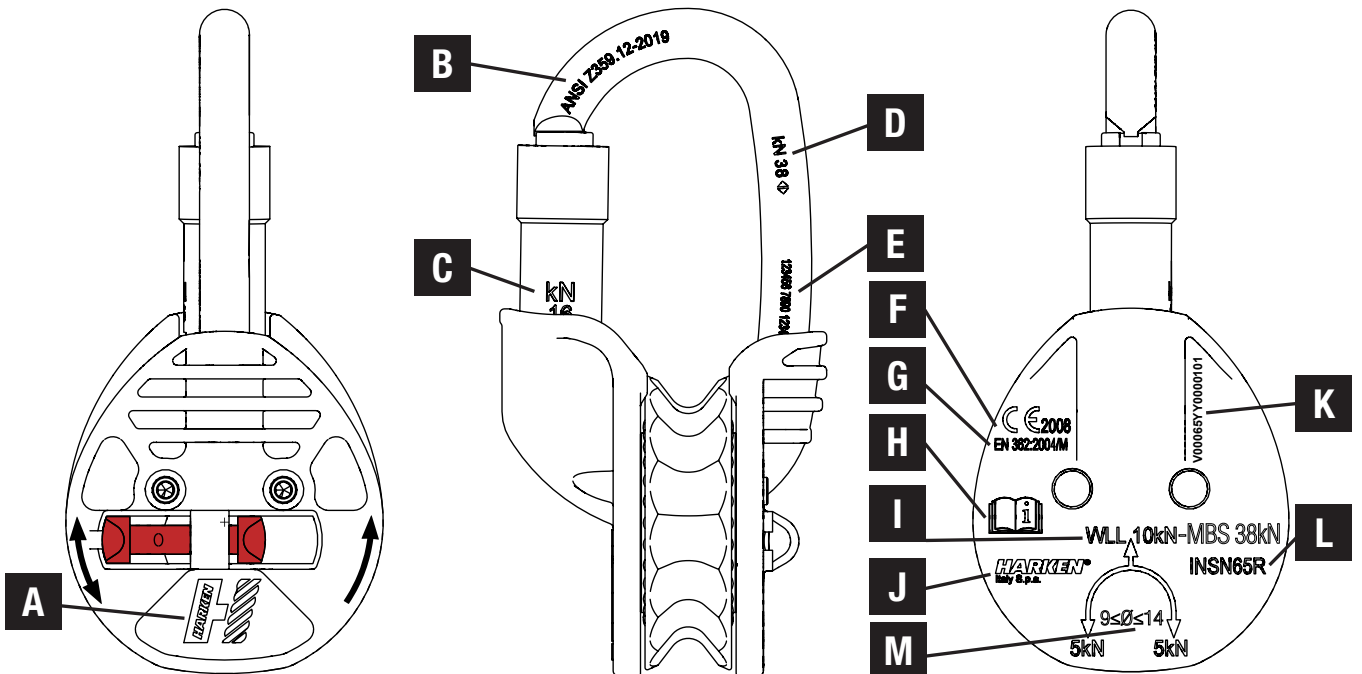


1. MARCATURA / MARKING

INSN65



INSN65R

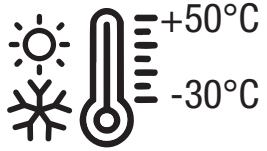


2. AVVERTENZE / WARNING

A. Precauzioni d'uso / Precautions for use



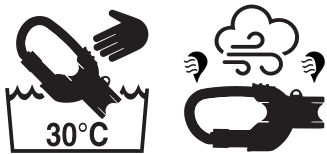
B. Temperature di esercizio / Working temperatures



C. Ispezione / Inspection



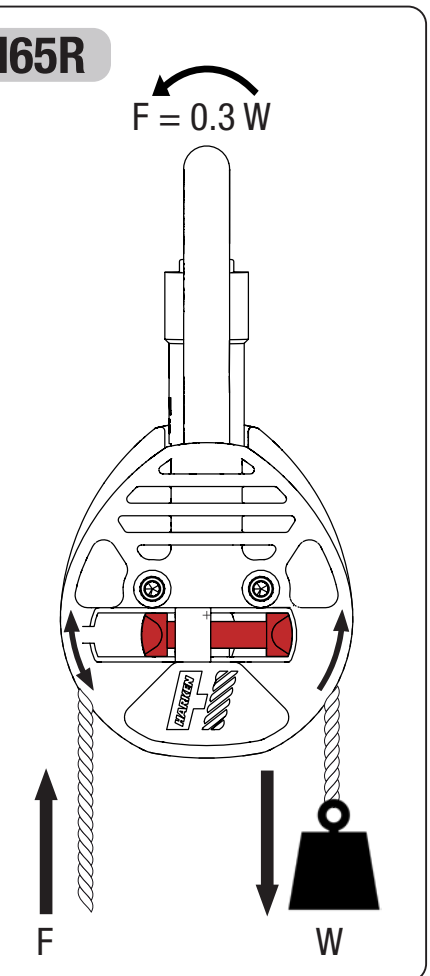
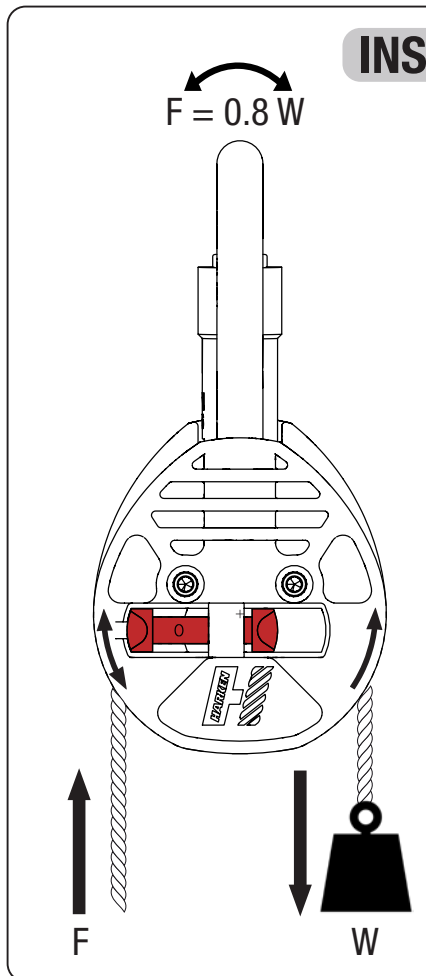
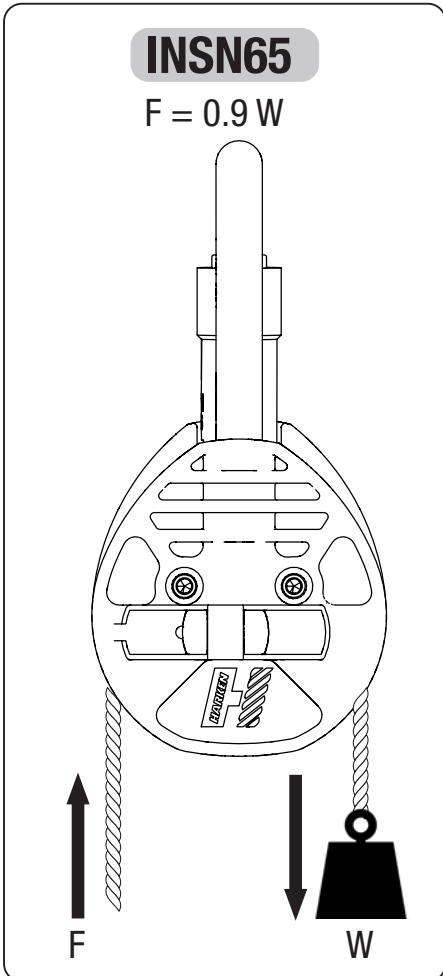
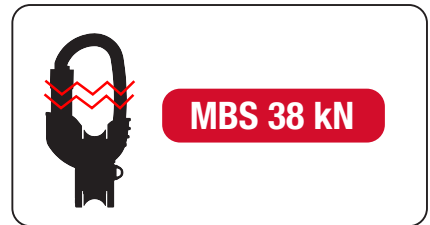
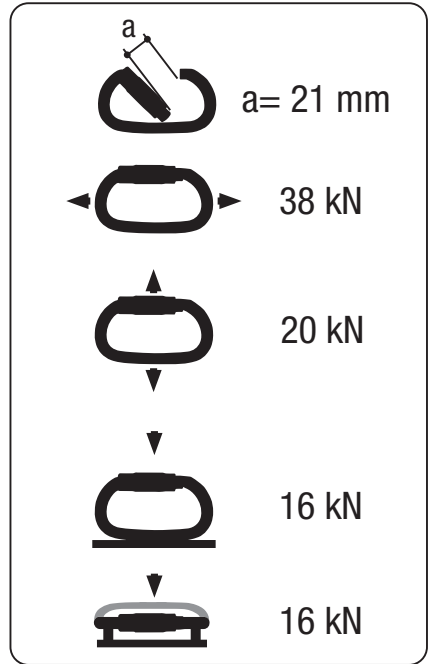
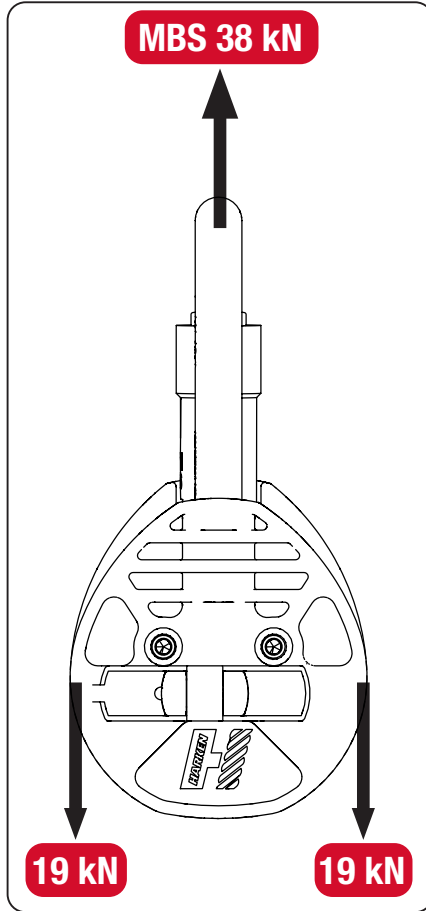
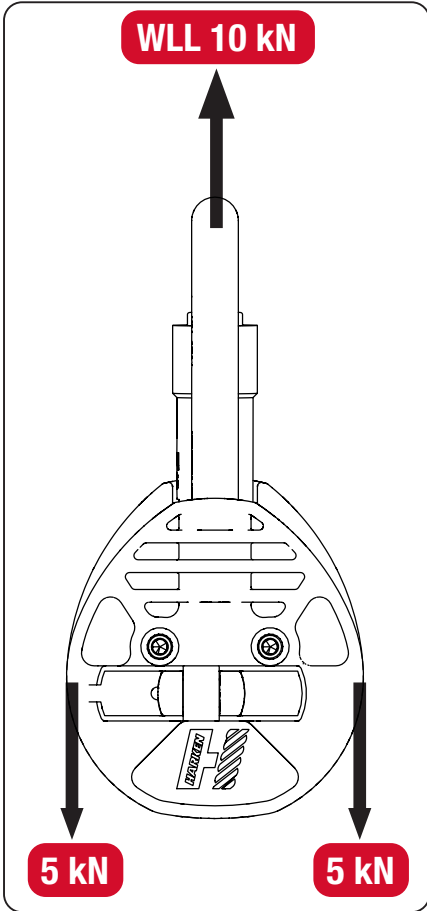
D. Manutenzione / Maintenance



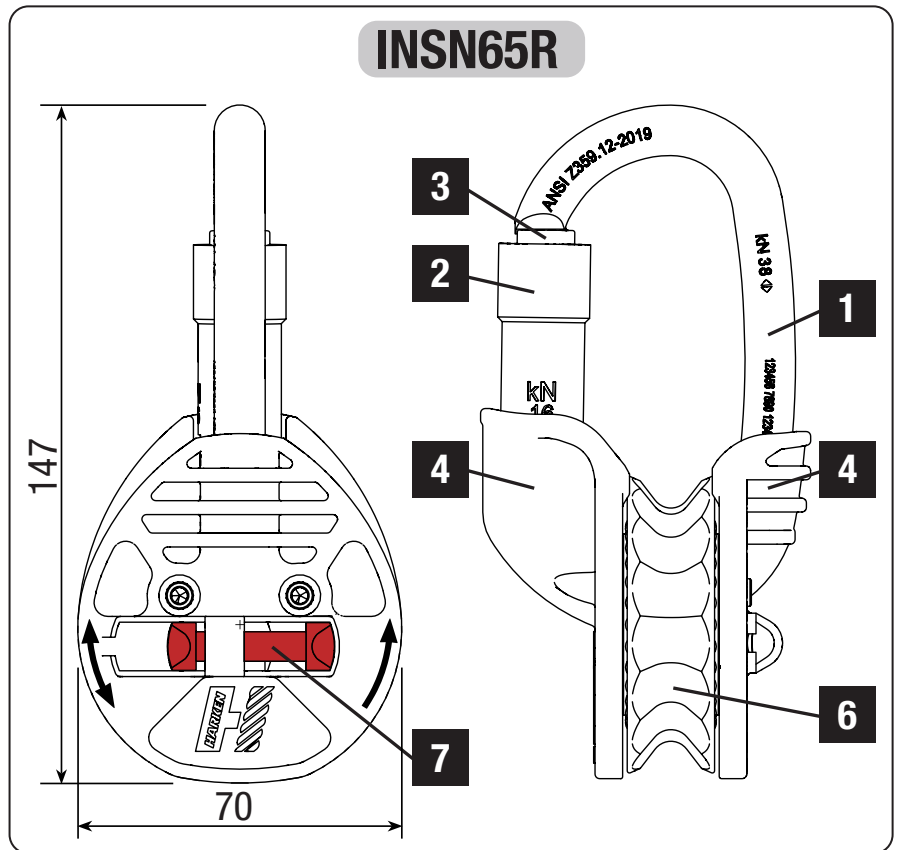
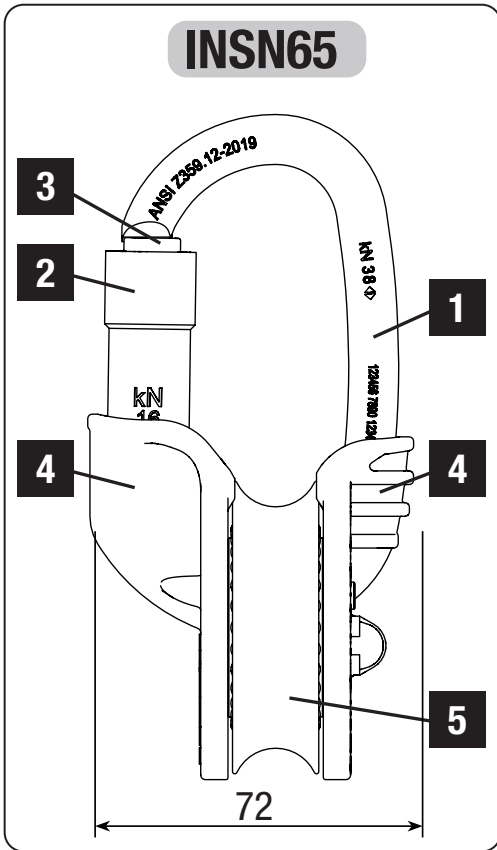
E. Immagazzinamento / Storage



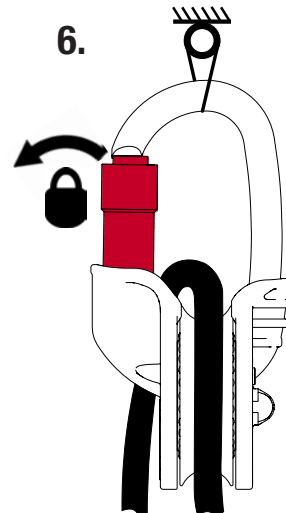
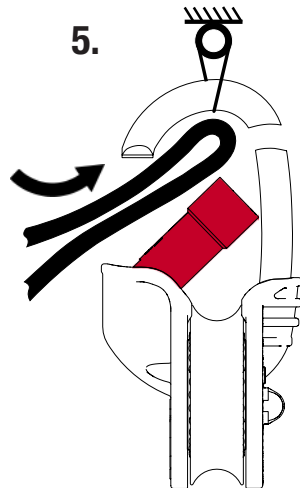
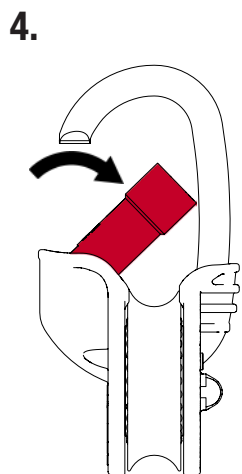
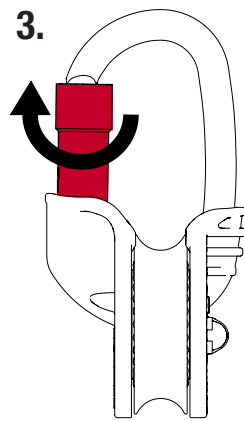
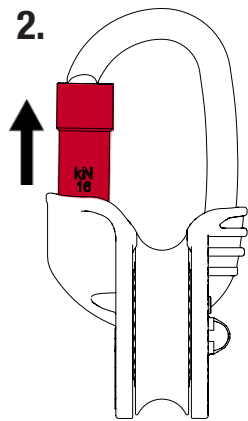
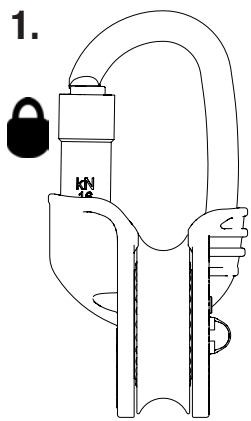
3. CARICHI / LOADS

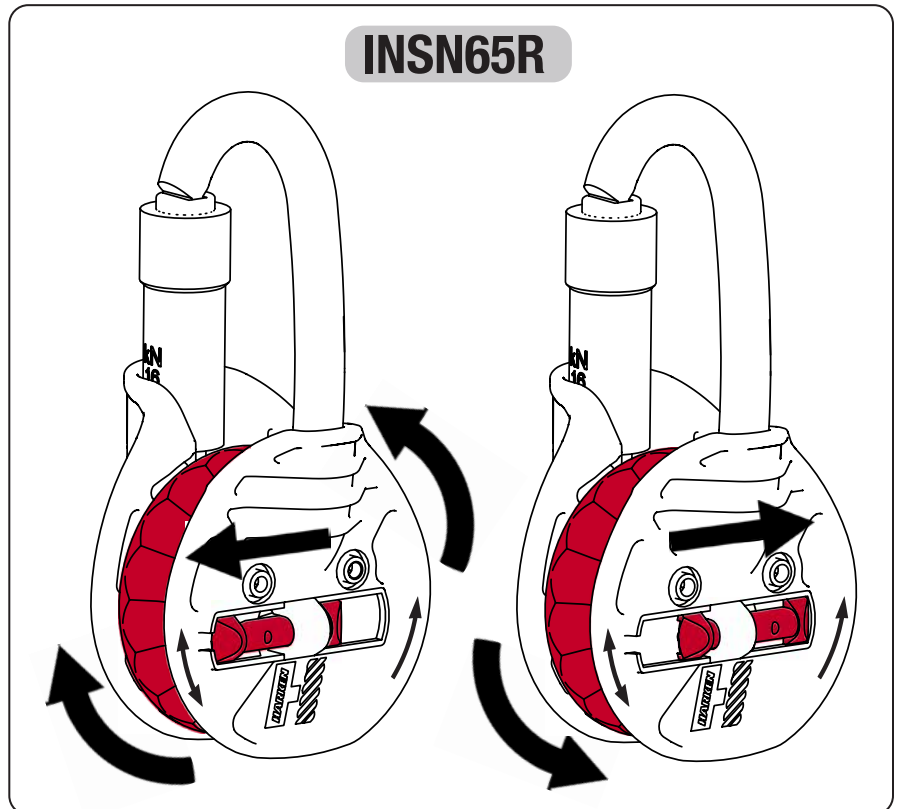
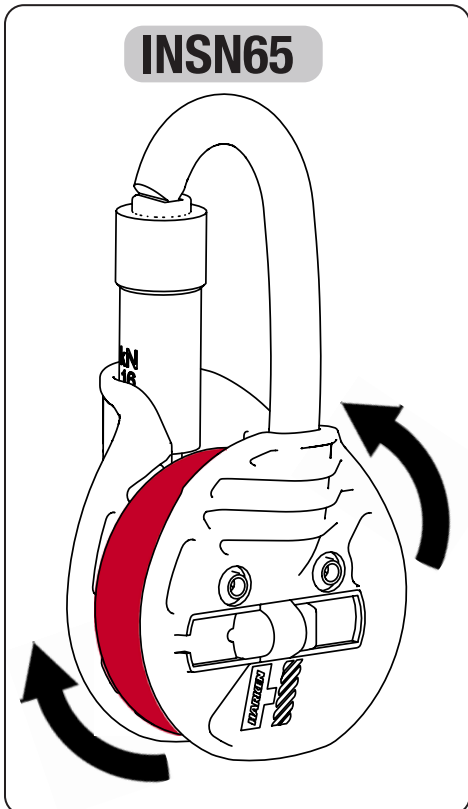
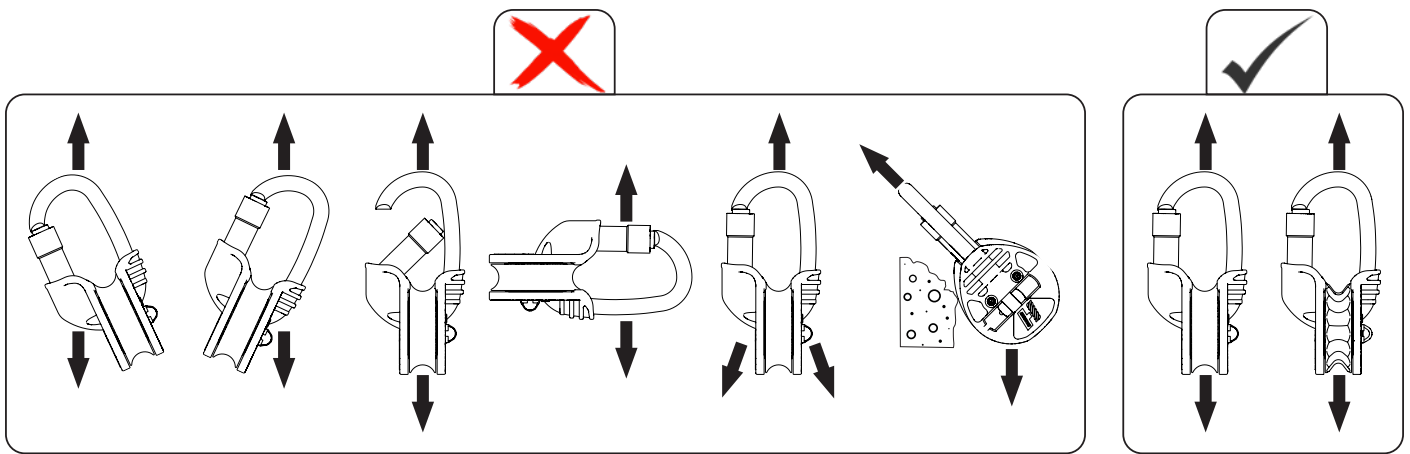


4. NOMENCLATURA / NOMENCLATURE



5. UTILIZZO / USE





7. ADDITIONAL INFORMATION

(1) SCHEDA DI CONTROLLO DELL'EQUIPAGGIAMENTO

(2) PRODOTTO / MODELLO / TIPO	(3) DESCRIZIONE	(4) NUMERO DI SERIE
(5) FABBRICANTE HARKEN ITALY S.P.A.	(6) INDIRIZZO VIA MARCO BIAGI 14, 22070 LIMIDO COMASCO (CO), ITALY	(7) TEL / FAX / EMAIL / SITO WEB +39.031.3523511 +39.031.3520031 INFO@HARKEN.IT WWW.HARKEN.IT
(8) ANNO DI FABBRICAZIONE	(9) DATA DI ACQUISTO	(10) DATA DEL PRIMO UTILIZZO

(11) ALTRE INFORMAZIONI PERTINENTI (PER ESEMPIO NUMERO DEL DOCUMENTO, FREQUENZA DI MANUTENZIONE E DI UTILIZZO):

(12) STORIA DELLE ISPEZIONI / RIPARAZIONI

(13) DATA	(14) RAGIONE DELL'IMMISSIONE (ISPEZIONE PERIODICA O RIPARAZIONE)	(15) DIFETTI NOTATI, RIPARAZIONI EFFETTUATE E ALTRE INFORMAZIONI PERTINENTI	(16) NOME E FIRMA DELLA PERSONA COMPETENTE	(17) DATA PREVISTA PER LA SUCCESSIVA ISPEZIONE PERIODICA

This manual describes how to use SNATCHET devices correctly.

SNATCHETs are personal protective equipment (PPE) designed to protect against falls from above and can be used individually or as part of a system. They also integrate a sheave.

SNATCHET devices comply with regulation (EU) 2016/425 relating to personal protective equipment.

INSN65 standards: EN 362:2004/M, EN 12278:2007, ANSI Z359.12-2019.

INSN65R standards: EN 362:2004/M, EN 12278:2007 for applicable points (excluding clauses 4.1.2 and 4.2.1), ANSI Z359.12-2019.

SNATCHET devices are certified to use ropes (EN 1891) with a maximum diameter of 14 mm (minimum diameter 9 mm only for **INSN65R**). Do not use cables, chains or slings.

Geometrically, the SNATCHET devices can accommodate ropes from $\varnothing 8$ (8 is the minimum diameter of the rope to ensure the minimum friction necessary for the ratchet function) to $\varnothing 16$ mm for non-certified applications.

The EU type examination certificate and the production control phase were carried out by Dolomitcert S.C.A.R.L. EU Notified Body (N.B. 2008) (Dolomitcert S.C.A.R.L., Villanova Zona Industriale 7/A, 32013 Longarone (BL) - Italy - Tel. +39 0437 573407).

The EU declaration of conformity can be downloaded from the website www.harkenindustrial.com.

This manual may be changed without notice.

Consult the website for updated versions or other languages not in this manual.

1. MARKING

- | | |
|--|---|
| A. Trademark manufacturer | G. European standards carabiner (EN 362) and sheave (EN 12278 only for INSN65) |
| B. American carabiner regulation | H. Read the manual |
| C. Carabiner gate Minimum Breaking Strength | I. SNATCHET Working load limit (WLL) - Minimum Breaking Strength (MBS) |
| D. Carabiner major axis Minimum Breaking Strength | J. Manufacturer name |
| E. Carabiner serial number | K. SNATCHET serial number (*) |
| F. CE mark of compliance with Regulation (EU) 2016/425 and reference Notified body involved in the production control process | L. SNATCHET model |
| | M. Minimum / maximum rope diameter |

(*) Example: V00065YY0000101

V00065 = Device code

YY = last two numbers of the year of manufacture of the device (ex: 22 = year 2022)

0000101 = progressive numbering of devices



WARNING: check the legibility of marking of the SNATCHET devices.

2. WARNINGS

A. Precautions for use.

Do not expose the device to flames, chemicals, damage from falling, extreme temperatures, dragging or twisting lifelines or ropes on sharp edges, electrical conductivity, cuts, abrasions, climatic exposure and pendulum falls; risk of hair or clothing entanglement.

B. Working temperatures.

Maximum/minimum working temperature. Humidity and frost can reduce the performance of the pulley.

C. Inspection.

Before each use, carefully inspect the device for evidence of wear or deformation that could compromise its proper function.

Inspect and test the proper function of the carabiner and pulley.

If the device shows evidence of wear, damage or inadequate maintenance, it must be permanently removed from service. Check that it works correctly as described in the USE chapter.

The frequency of periodic inspections depends on legislation, type of equipment, frequency of use and environmental conditions.

It is mandatory to carry out a thorough inspection at least every 12 months by an Authorized Inspector Harken. The Register of Authorized Harken Industrial Product Inspectors it is available on the website www.harkenindustrial.com.

Do not use SNATCHET devices without having carried out the mandatory periodic inspection. The inspection must be recorded in the Equipment Record and the inspection report signed by the Inspector must be kept by the owner of the device.

Regular periodic inspections are necessary procedures for the safety of users because user safety depends on continuous efficiency and durability of the equipment.

D. Maintenance.

Clean the device by hand in fresh water and allow it to dry naturally keeping it away from direct heat.

E. Storage.

Do not leave the device exposed to sun, rain or loads for long periods.

Store the device in a dry, ventilated, low-humidity, non-saline environment to avoid corrosion and protect the product from impacts, chemical agents or possible damage that could shorten the lifespan or affect the performance of the device. Improper storage can affect the performance of the device and require it to be removed from service. During storage and transport, use the original packaging.

3. LOADS

SNATCHET devices must be used respecting the directions of the loads indicated.

SNATCHET is strongest when the load is aligned with the major axis and with the gate closed. Off axis loading or other improper loading is dangerous and reduces strength, for example on the minor axis or with the gate open.



Use a positioning system that guarantees the load direction of the device on the major axis and avoid directly loading the device lever.

The maximum working load (**WLL**) is 10 kN.

The minimum Breaking Strength (**MBS**) is 38 kN.





ATTENTION: do not subject the SNATCHET devices to loads greater than those foreseen, which could cause them to fail and cause serious or fatal injuries.

The **INSN65R** device is equipped with a selector that allows the pulley to rotate freely in both directions (), or to rotate freely in one direction () and lock in the other direction. This locking function allows, thanks to the friction generated between the rope and the locked pulley, to reduce the load during the descent movement.

The indicated efficiency value was measured with an average of five tests performed using a new $\varnothing 14$ mm rope.

This value can be influenced by the diameter and condition of the rope, by the wear of the sheave and winding the rope on the sheave.

4. NOMENCLATURE

1. Carabiner (*)
2. Carabiner self locking gate
3. Carabiner gate
4. Side grips (**)
5. Sheave **INSN65** (***)
6. Ratchet sheave **INSN65R** (***)
7. Ratchet selector  -  (only on **INSN65R**)

(*) Carabiner material: Steel

(**) Side grips material: Plastic

(***) Sheave material: Steel



5. USE

SNATCHET devices are equipped with a carabiner with self-locking gate. The carabiner is opened by operating as follows:

1. Carabiner locked
2. Lift the self locking gate
3. Rotate the self locking gate
4. Push the gate inwards
5. Insert the carabiner into the anchoring system and the rope inside the connector
6. Release the carabiner gate, the gate closes and locks automatically; place the rope on the sheave.

Confirm that the gate is closed and locked before use.

The SNATCHET **INSN65** is equipped with a sheave with free rotation in both directions.

The SNATCHET **INSN65R** is equipped with a selector that allows the ratchet sheave to rotate freely in both directions (place the selector in the  position), or to rotate freely in one direction (position the selector in  position) and lock in the other.

Before use check the correct function of the SNATCHET.



ATTENTION: for safety it is essential that you stop using the device immediately in case:

- It has been used to arrest a fall;
- There is any doubt about its safety.

The system anchor must be located above the user's position and must meet the requirements of the EN 795 standard (minimum strength 12 kN).

Only a limited number of misuse are shown, as it is impossible to predict and describe them all.

6. ADDITIONAL INFORMATIONS

A dangerous situation may arise when SNATCHET devices are used in combination with components or sub-assemblies not described in this manual because the safety function of one of the devices is affected or interferes with the safety function of another device.

SNATCHET devices have a lifetime of 30 years from the date of construction, in the absence of causes that could determine their withdrawal (for example incorrect use) and on condition that all the maintenance, storage and transport instructions described in this manual are followed, with the recording of their results in the Equipment Record.

For the warranty, refer to the Harken Limited Worldwide Warranty on the website www.harkenindustrial.com.

WARNING:

- The SNATCHET devices are designed for use by a single person and are personal devices.
- Suspended activities are inherently dangerous and it is the user's responsibility to apply the best techniques for safe use.
- SNATCHET devices must be used by specialized personnel or competent users of PPE (Personal Protective Equipment), specifically trained in the safe use of these products.
- SNATCHET devices should only be used by physically and mentally healthy personnel. Heart and respiratory problems, taking medications, alcohol and drugs can compromise the safety of the user who works at height.
- When using the devices in a fall arrest system, consider the length of the SNATCHET as it affects the fall length. It is essential for safety to check the required clearance below the user in the workplace before each use so that, in the event of a fall, there will be no collision with the ground or other obstacles along the way of fall.
- It is essential for the safety that the anchor device or the anchor point are positioned and that the work is performed in such a way as to minimize both the fall potential, and the potential fall distance.
- Before using SNATCHET devices, it is mandatory to organize a rescue plan to deal with any emergencies that may arise during work.
- The intentional modification or misuse of SNATCHET devices can cause the system to malfunction, which can cause a fall, resulting in serious injury or death. SNATCHET devices cannot be modified, tampered with or repaired.
- When SNATCHET devices are assembled into a system, a full body safety harness (EN361 certified) is the only acceptable body holding device that can be used in a fall arrest system. For connection to the harness and to the anchor point, refer to the component connection manual. An energy absorber (EN355 certified) must also be used. For protection from falls from above it must be used also an energy absorber (EN355 certified).
- Use only connections compatible with the carabiner.
- SNATCHET devices must not be used outside their limitations or for purposes other than those intended.
- If the device has been used to arrest a fall, it must be immediately removed from use and destroyed.
- Harken will not be liable for personal injury or damage caused by improper use of the device.
- It is essential for the user's safety that if the product is resold outside the original country of

destination, the retailer must provide instructions for use, maintenance, periodic inspection and repair in the language of the country in which the product is to be used.

7. EQUIPMENT RECORD

SNATCHET devices are equipped with a carabiner with self-locking lever. A record must be kept for each device with the following details (see example record log below).

It is the responsibility of the user organization to provide the record and to enter onto the record the details required and to store the Inspection report of the mandatory inspection signed by an authorized Harken Inspector.

(1) Equipment report of device, (2) Product / Model / Type, (3) Description, (4) Serial number, (5) Manufacturer, (6) Address, (7) Phone / Fax / Email / Website, (8) Year of manufacture, (9) Purchase date, (10) Date first put into use, (11) Other important information (I.E. document number, maintenance frequency and use), (12) Inspection/repair history, (13) Date, (14) Reason for entry (Periodic exam or repair), (15) Defect notes, repairs carried out and other important information, (16) Name and signature of competent person, (17) Date of next periodic examination.

HARKEN®

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