

HARKEN®

Top-Crank LokHead Rigging Winch 500

INTCLHRW500KIT, INTCLHRW500



Manuale di Istruzioni

Instruction Manual • Manuel d'Instructions • Manual de instrucciones
• Bedienungsanleitung • Manuel d'Instructions • Návod k obsluze • Brugermanual
• Käyttöopas • Εγχειρίδιο οδηγιών • Gebruiksaanwijzing • Brukermanual
• Instrukcja obsługi • Manual de Instruções • Manual de instructiuni • Návod na
obsahu • Instruktionsmanual

CE EN 13157:2009



IT

EN

ES

DE

FR

CS

DA

FI

EL

NL

NO

PL

PT

RO

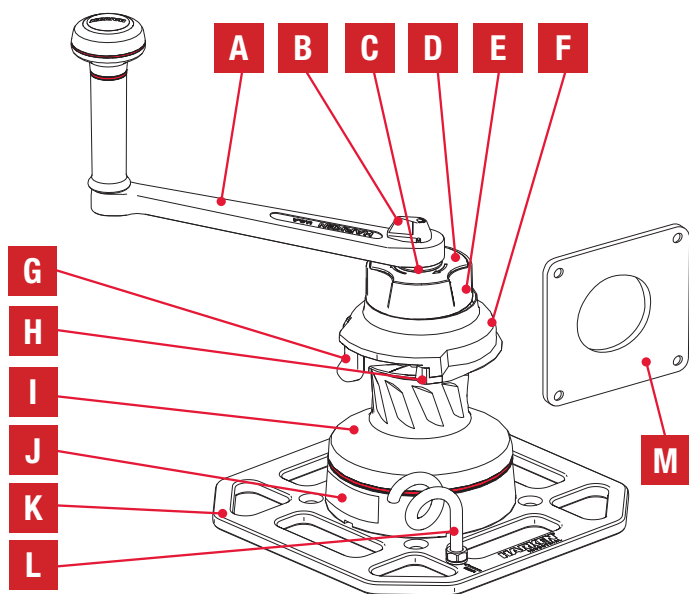
SK

SV

3. DESCRIZIONE / DESCRIPTION

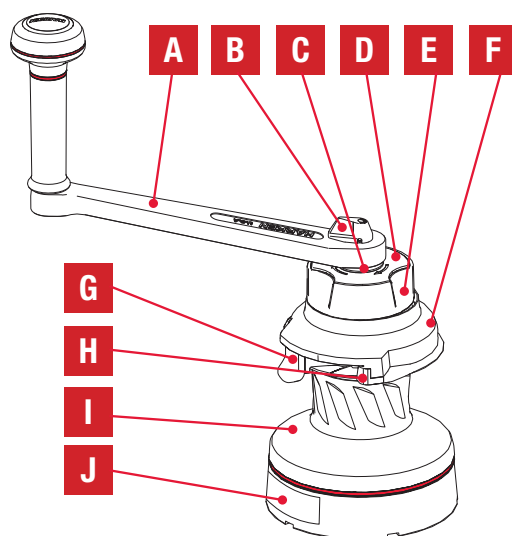
3.2

INTCLHRW500KIT



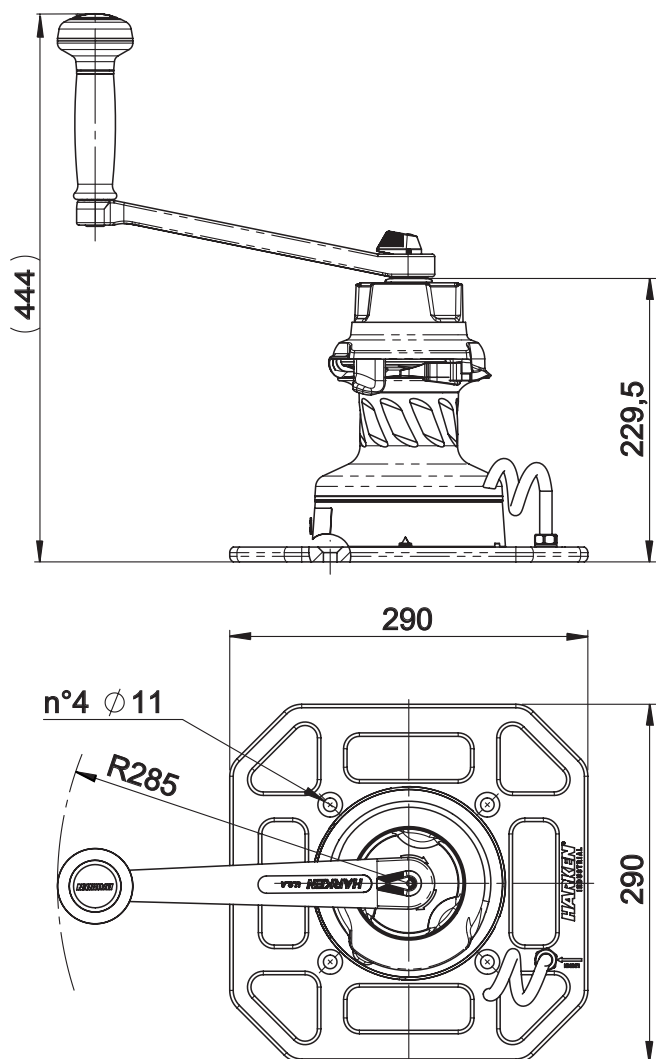
3.1

INTCLHRW500



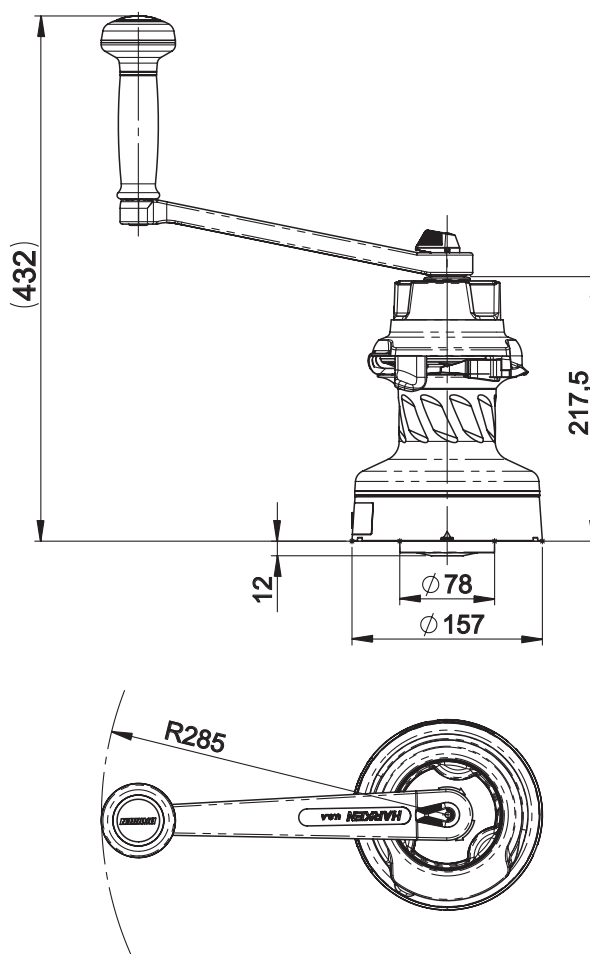
3.3

INTCLHRW500KIT



3.4

INTCLHRW500



4. MARCATURA / MARKING

4.1

HARKEN Italy spa Top-Crank LokHead Rigging Winch 500 (INTCLHRW500, INTCLHRW500KIT)

via Marco Biagi, 14
Limido Comasco (CO)
22070 - Italy
www.harken.com
☎(+39) 031 3523511

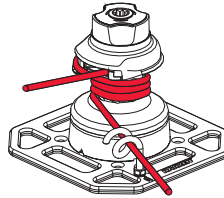
MWL : 500kg (kg)

2 ≤ ● ≤ 4 turns ↻

Serial No. / N. di serie



EN 13157:2009
● ø9 ÷ 12,7mm



MBS 3500kg



2023

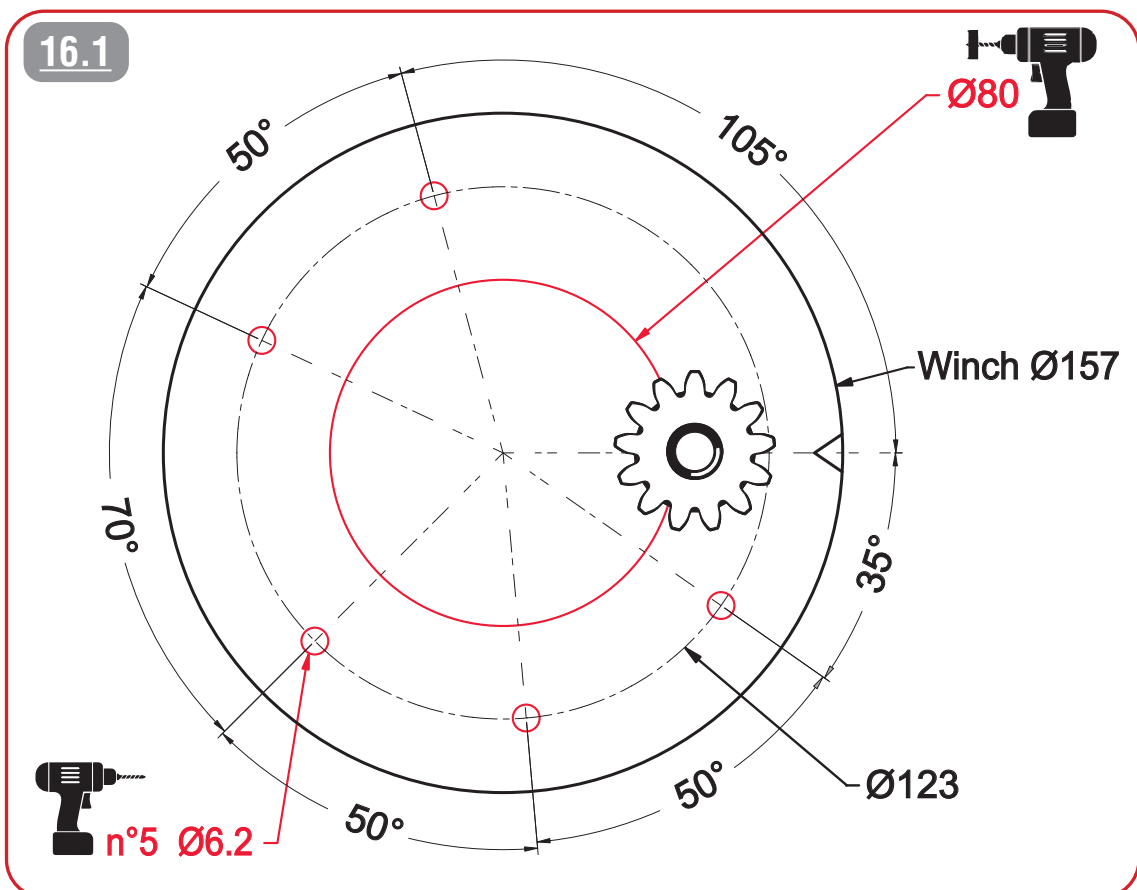
2024

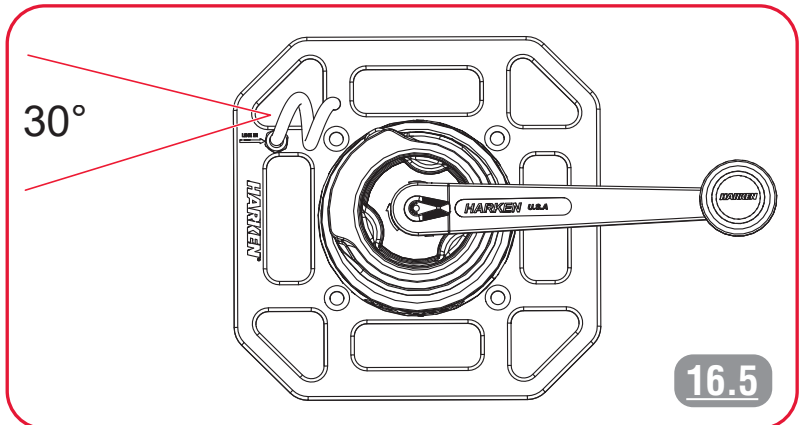
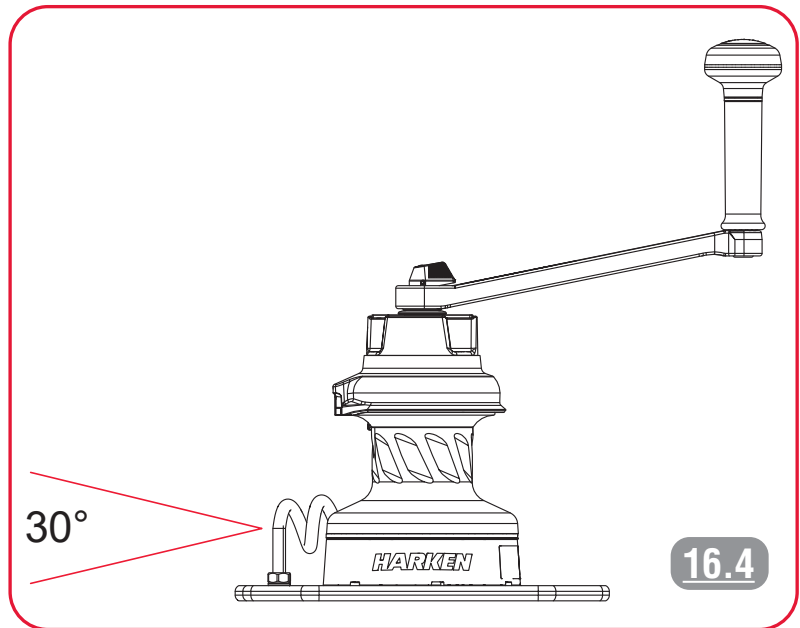
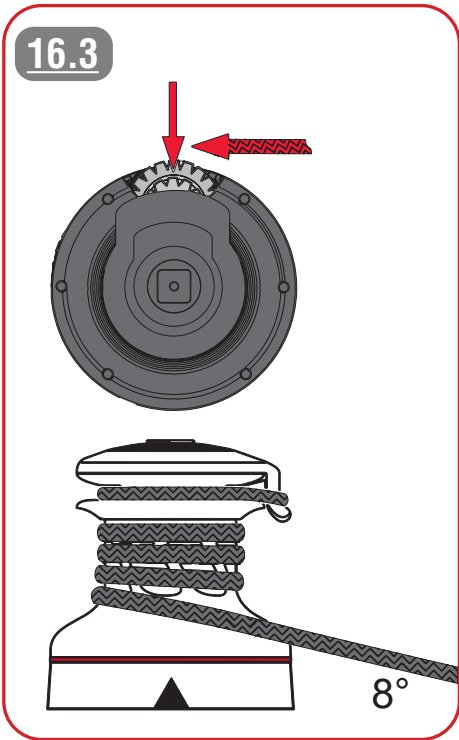
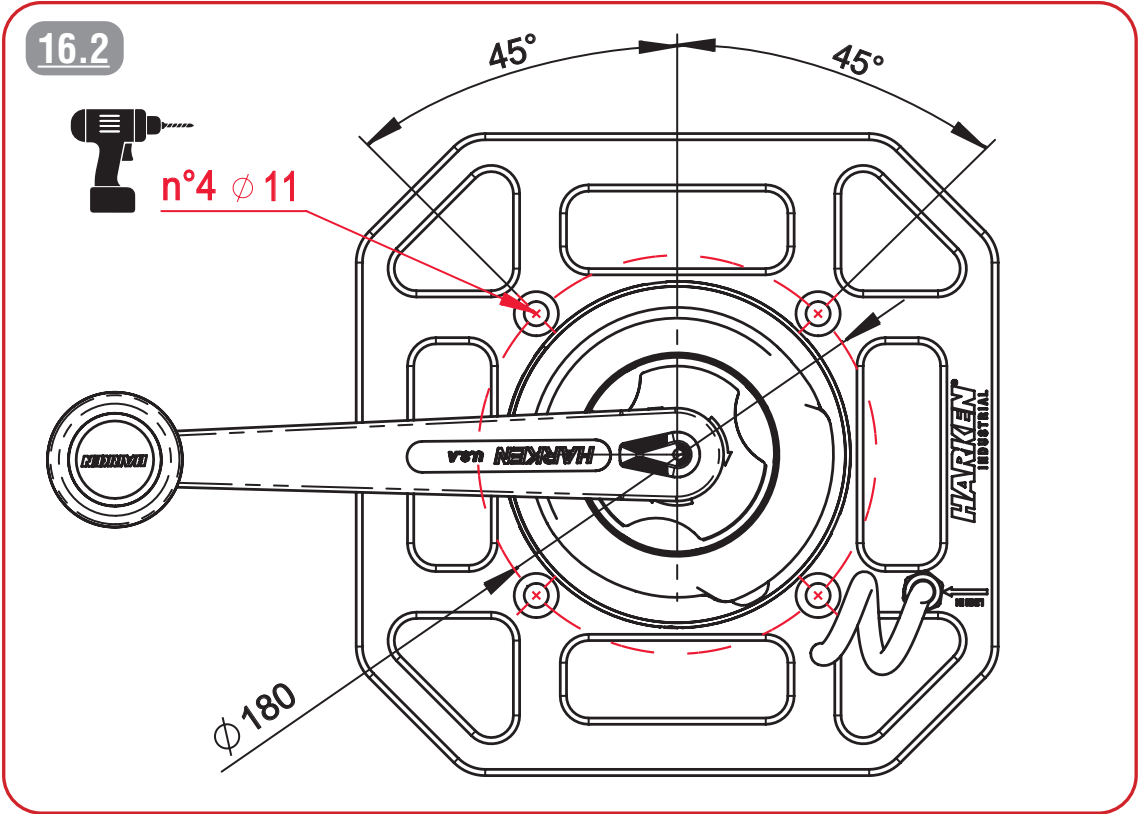
2025

1		2			
3	4			6	5
	8	7			
11		9	10	12	

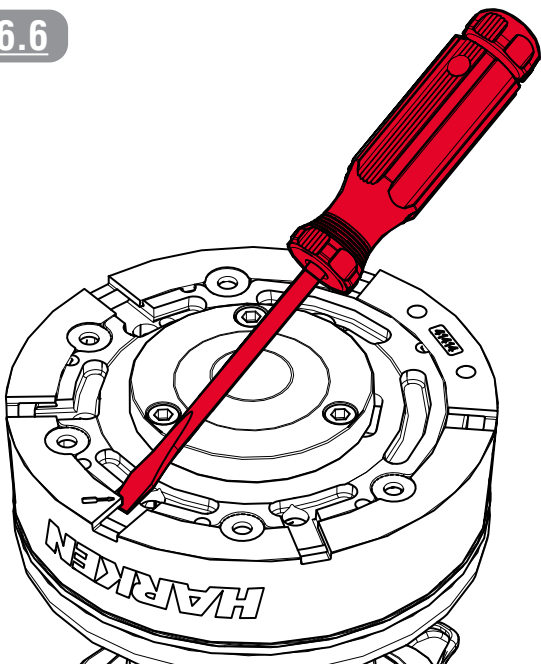
16. INSTALLAZIONE / INSTALLATION

16.1

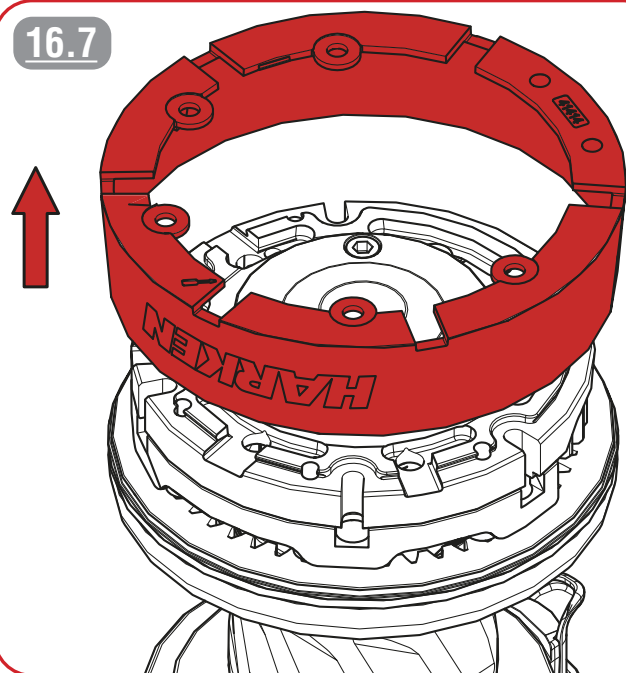




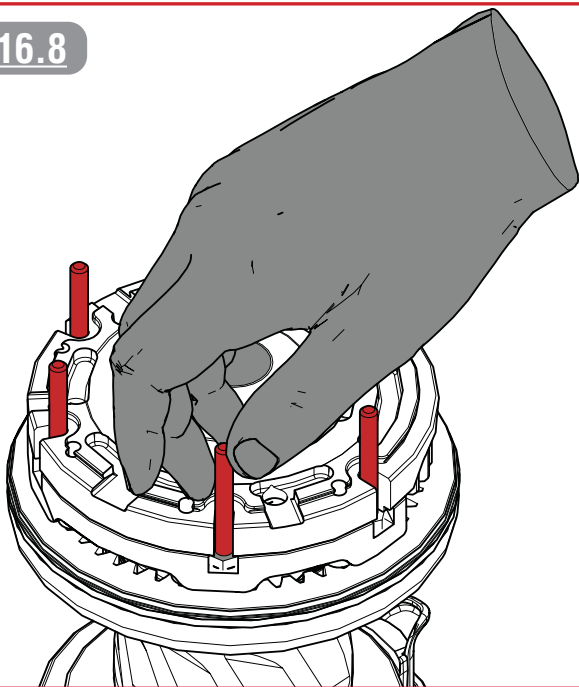
16.6



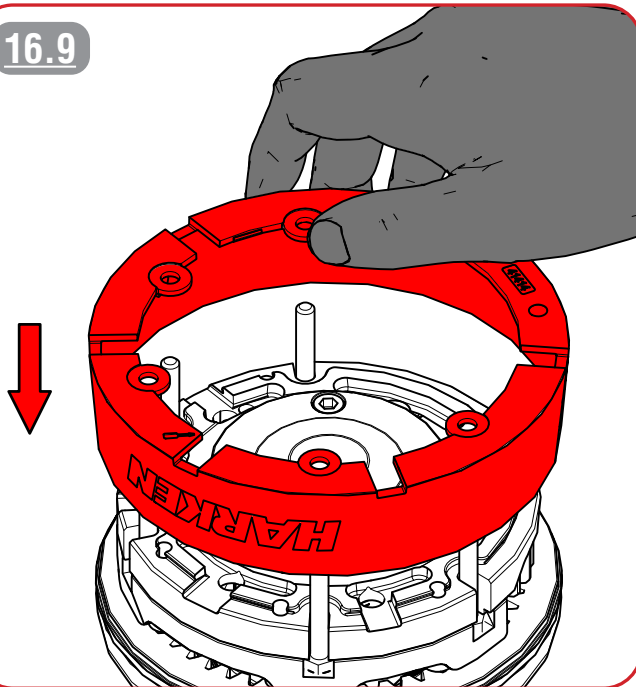
16.7



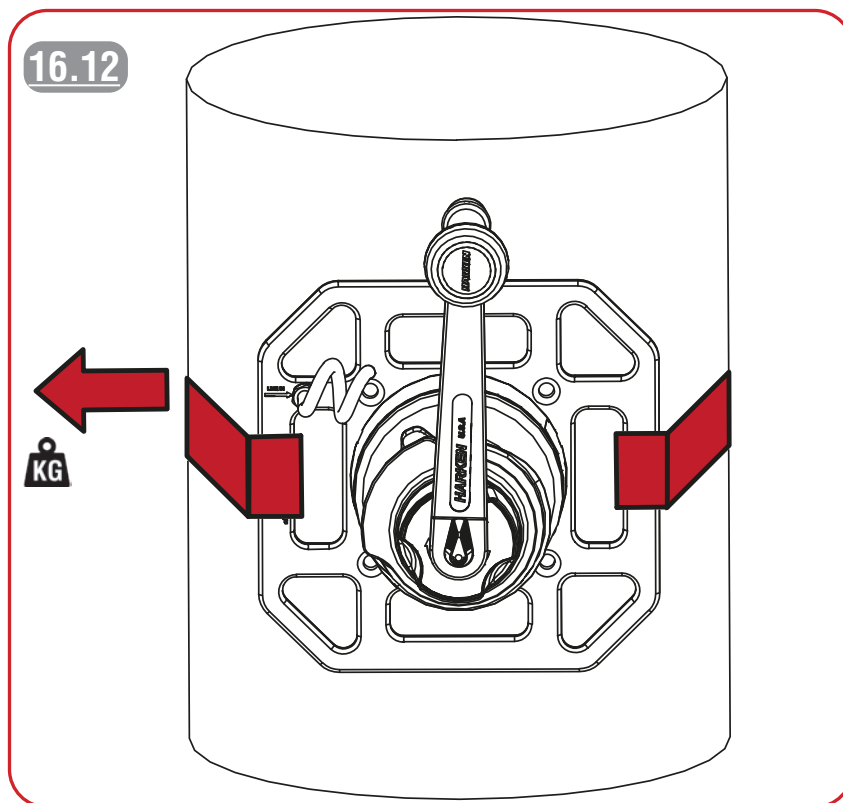
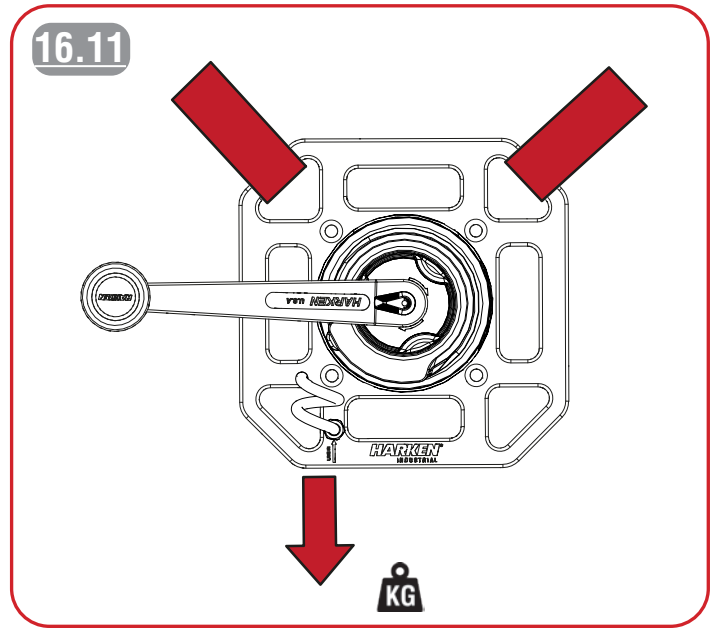
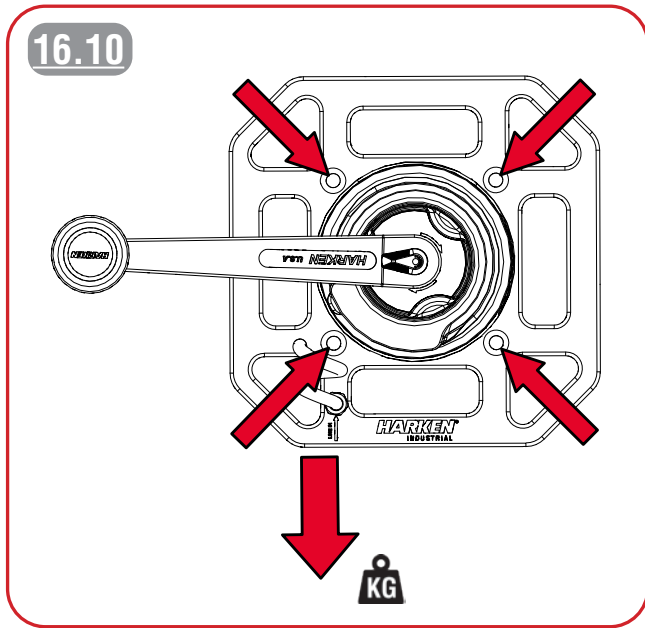
16.8



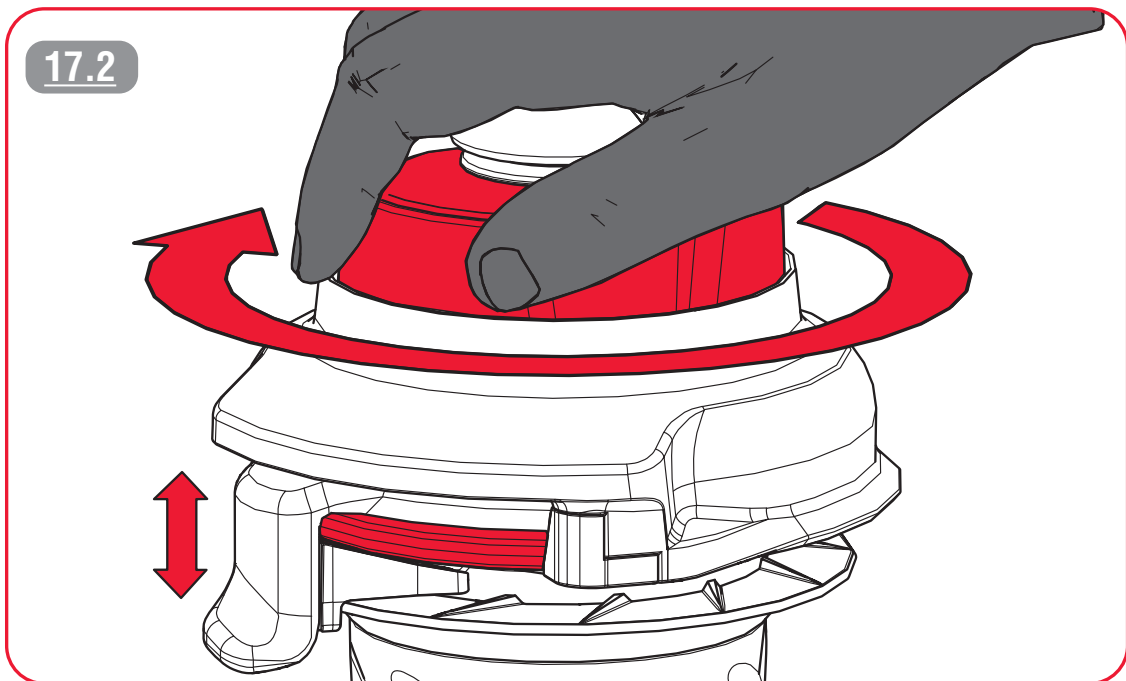
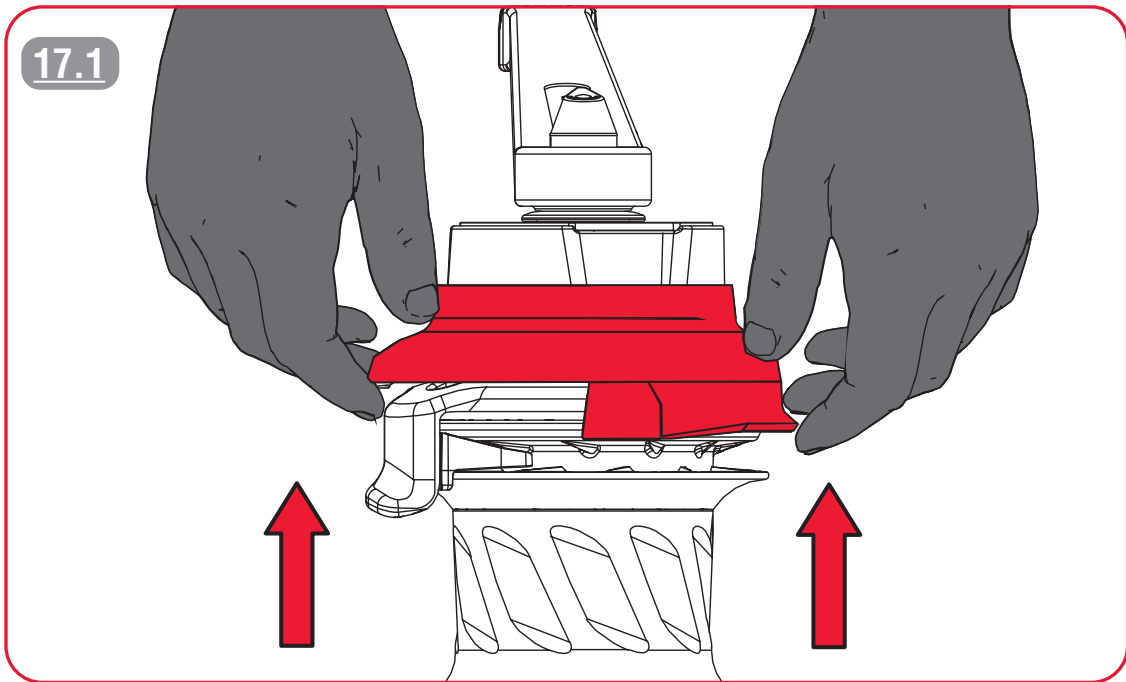
16.9

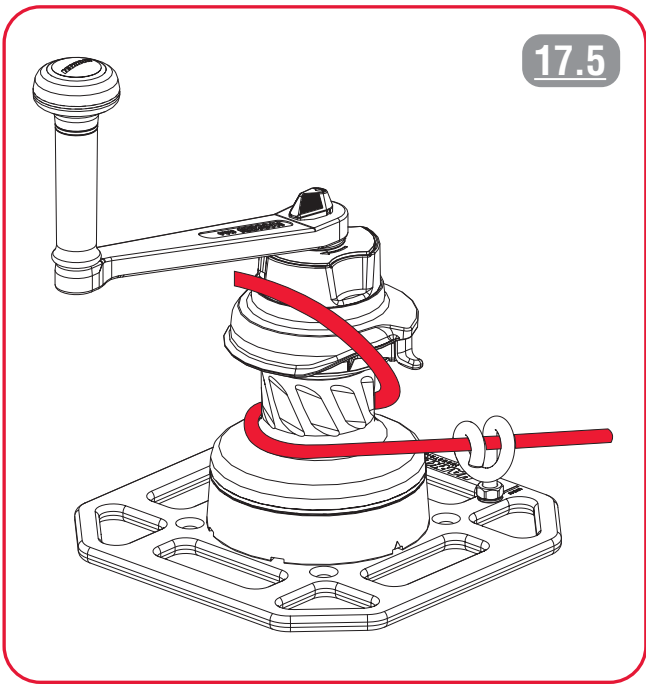
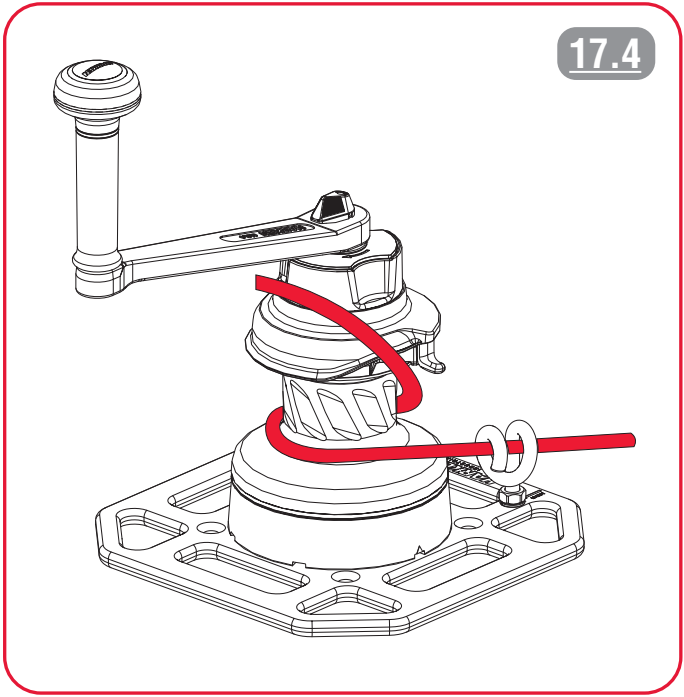
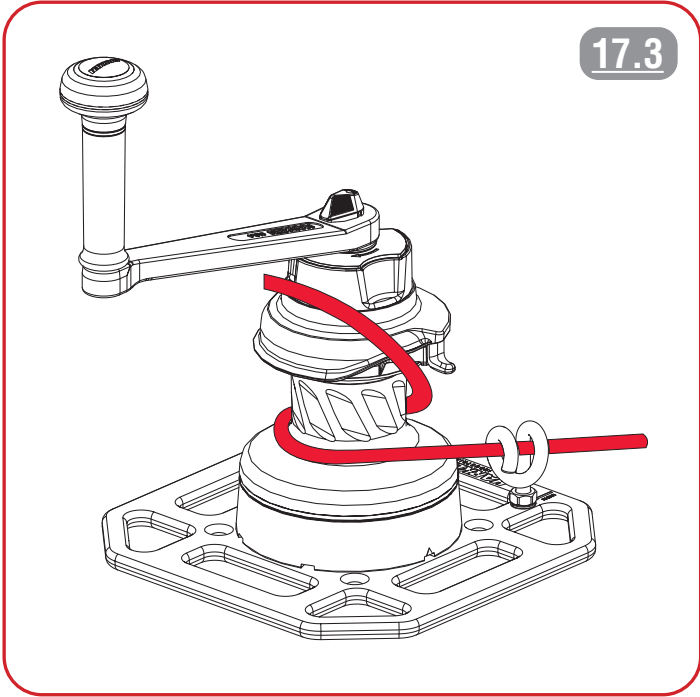


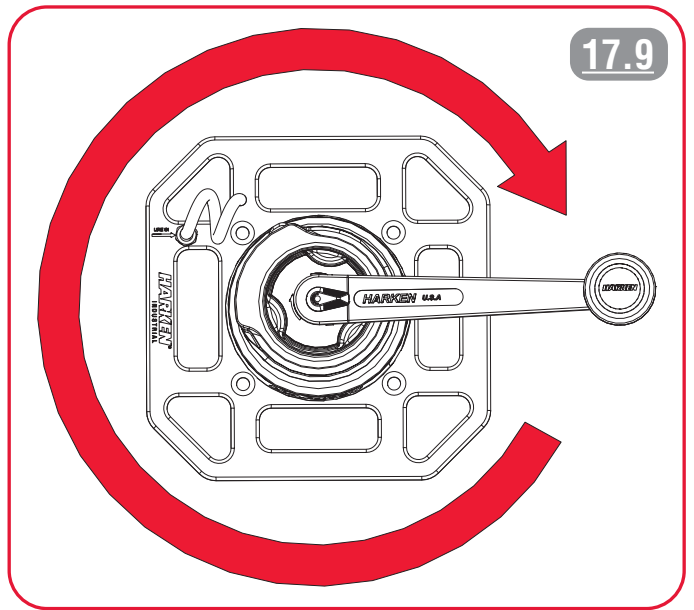
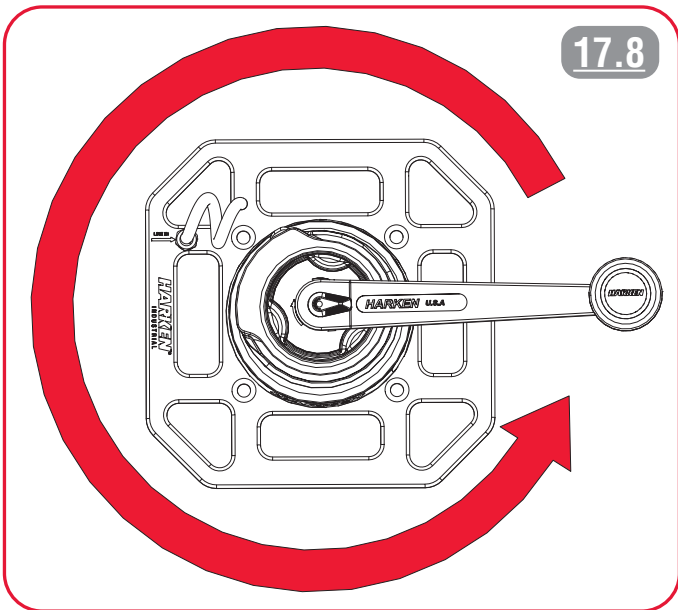
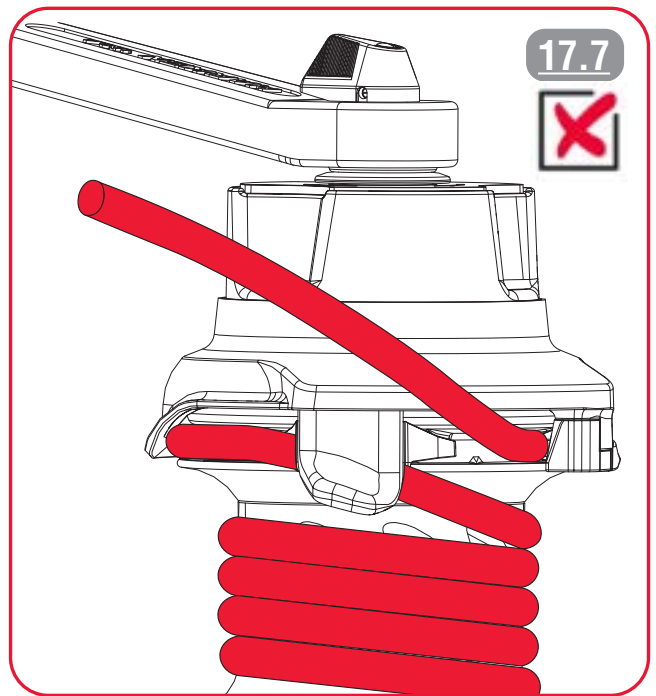
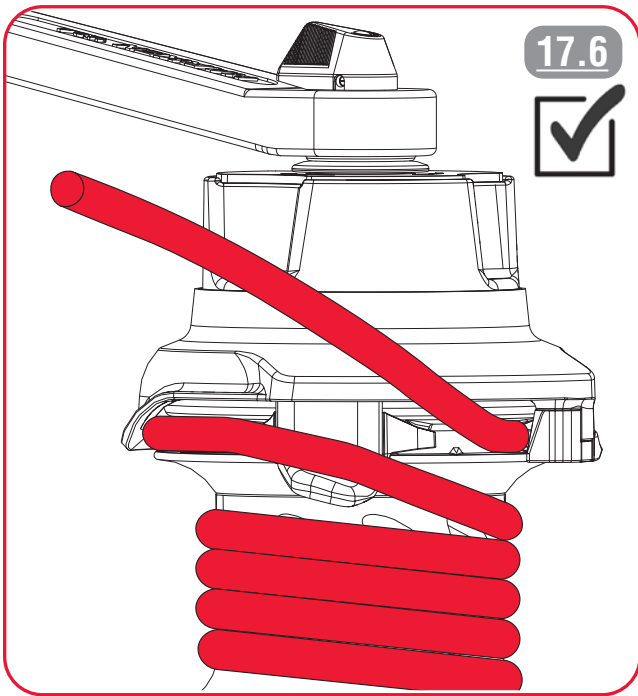
INTCLHRW500KIT



17. UTILIZZO / USE







1. INFORMATION

This Instruction Manual is an integral part of the Top-Crank LokHead Rigging Winch 500 and is intended to provide all the information necessary for its correct and safe use and correct maintenance. In case of doubt about the instructions, contact Harken.

This Instruction Manual is an integral part of the machine and must be kept for any future reference. This Manual is intended for qualified operators and users (refer to the Safety Information chapter for more information). Improper use of the machine or improper maintenance could cause serious damage or death.

Harken accepts no liability for damage, personal injury or death caused by the failure to comply with the safety information and instructions in the Manual. The manufacturer shall not be held liable for damage, injury or loss resulting from installation or maintenance by unqualified personnel. Harken Italy S.p.A declines all responsibility for translation errors; in case of doubt, it is always necessary to refer to the original text. In addition, the manufacturer shall not be liable for damage, injury or loss resulting from incorrect operations or modifications of the product.

This Manual may be modified without prior notice.

Consult the website <http://www.harken.com> for other languages and updated versions.



WARNING!

- The user must read and understand the instructions in this manual before using this Winch. They provide information on correct use, inspection and maintenance. Changes or improper use of this Winch or the failure to follow these instructions may lead to a fall, causing serious injuries or death.
- It is essential for user safety that, if the product is resold outside the original country of destination, the reseller provides instructions for use, maintenance, periodic inspection and repair in the language of the country in which the product is to be used.
- Read the instructions in this manual and follow the instructions carefully before using Top-Crank LokHead Rigging Winch 500.

2. GLOSSARY

Intended Use - use of the Winch in accordance with the information provided in the instructions for use.

Improper Use - use of the Winch in a way other than that indicated in the instructions for use.

Qualified Operator - persons who have attended specialization courses, training, etc. and are qualified for the use of lifting/lowering devices.

User - operator who uses the Winch to raise/lower loads.

The descriptions preceded by the following symbols contain very important information/requirements, in particular with regard to safety.

Failure to comply may result in:

- risks for the safety of operators
- invalidity of the contract warranty
- denial of liability of the manufacturer



WARNING!

this indication denotes the existence of a potential hazard



NOTE!

this indication precedes important information regarding the machine

3. DESCRIPTION

The Winch is a through-rope type and is designed and built to be used for lifting loads with human force. For description of parts, see figures **3.1** e **3.2**.

- | | |
|---------------------------------|-----------------------------------------|
| (A) Handle | (H) Cover Insert |
| (B) Handle Lock | (I) Drum |
| (C) Handle Coupling | (J) Removable Skirt with Sticker |
| (D) Knob Cover | (K) Plate |
| (E) Knob | (L) Rope Guide |
| (F) Rope Retaining Cover | (M) Plate Adhesive Protection |
| (G) Stripper arm | |

For overall dimensions, see figures **3.3** and **3.4**.

Note: all dimensions are in mm and the scale of drawings is not 1:1.

4. MARKING

The CE plate is located on the skirt of the Winch (see figure 4.1).

1. Name of the manufacturer.
2. Product name and model.
3. Manufacturer's identification data.
4. Indication of Maximum Working Load (MWL) of the Winch, with specific indications for lifting/lowering loads.
5. Serial number in the format: SXXXXXYYXXXXXX where **YY** are the last two numbers of the production year of the machine (ex. 23= year 2023).
6. Safety instruction on the interval of min/max winding layers of rope to be used; pictogram indicating the winding direction and the route of the rope on the Winch.
7. List of applicable regulations.
8. CE mark.
9. Use only textile ropes. MBS 3500 kg: min. breaking load 3500 kg.
10. Pictogram indicating the prohibition of lifting persons.
11. Pictogram of the instruction to read the manual before using the Winch.
12. Production year.

 Pictogram showing the lifting/lowering of loads.

 Pictogram showing the min/max diameter of the textile rope as per Machinery Directive 2006/42/EC for lifting/lowering of loads.

 Pictogram showing the winding direction of the rope.

NOTE!

Do not remove the labels affixed on the machine. The labels must be kept well fixed, intact and in excellent reading conditions.

5. CERTIFICATIONS

The Top-Crank LokHead Rigging Winch 500 (INTCLHRW500 and INTCLHRW500KIT) is certified pursuant to Directive 2006/42/EC. The harmonised standard EN 13157:2009 has been used as reference for machine design.

6. WARRANTY

The Top-Crank LokHead Rigging Winch 500 is covered by warranty, as stated in the general conditions of sale. As indicated in the warranty, if during the warranty period the Winch proves to be defective or breaks, the manufacturer, after checking the Winch, will repair or replace the faulty components. Parts subject to wear are not covered by warranty. Please note that modifications made by the user without the express written authorisation of the manufacturer shall void the warranty and release the manufacturer of any and all liability for damage caused by the defective product. The same considerations apply if non-original spare parts, or those not explicitly specified by the manufacturer, are used. In view of these considerations, we advise customers to contact Harken technical support in case of need.

! NOTE!

Any changes made to the machine without the written authorization of Harken Italy S.p.A. that alter the envisaged functionalities by modifying the contents of the risk analysis (generating additional or different risks) shall be the full responsibility of the person carrying out such alterations. Such changes carried out without the authorization of Harken Italy S.p.A. shall void any form of warranty and invalidate the declaration of conformity with the applicable directives.

7. SAFETY

All technical information, data and warnings relating to machine operation contained in the operating instructions correspond to the current state at the time of affixing the CE label. The use of the Top-Crank LokHead Rigging Winch 500 for lifting and lowering loads is permitted by the user in accordance with national regulations and guidelines /work practices.

Harken is not liable for damage caused by the Top-Crank LokHead Rigging Winch 500 to persons, animals or property in the event of:

- improper use of Top-Crank LokHead Rigging Winch 500
- lack of proper maintenance, as indicated in the Maintenance chapter of this manual
- unauthorised changes or tampering
- use of non-original or non-specific spare parts
- total or partial failure to comply with the instructions
- use in contrast to specific national regulations

Harken Italy S.p.A declines all responsibility for translation errors; in case of doubt, it is always necessary to refer to the original text.

 **WARNING!**

- The Top-Crank LokHead Rigging Winch 500 must be used only by physically and psychically healthy personnel. Cardiac and respiratory problems, or the intake of medication, alcohol or drugs can compromise user safety.
- The Top-Crank LokHead Rigging Winch 500 must not be used outside its limitations or for purposes other than those intended.
- Consult Harken when using this Winch in combination with components or sub-assemblies other than those described in this manual, as the safe operation of each item is affected by or interferes with the safe operation of another. Intentional modification or improper use of this Winch may cause the system to malfunction, which may cause a fall, resulting in serious injury or death.
- The Top-Crank LokHead Rigging Winch 500 must only be used if a lifting operation is possible without hindrance and must not be used if obstacles constitute a hazard.

8. INTENDED USE

The Top-Crank LokHead Rigging Winch 500 is designed to be used as a manually operated winch for lifting, lowering and handling loads.

The Top-Crank LokHead Rigging Winch 500 must be used after being mounted on a suitable anchorage point.

 **NOTE!**

The machine must only be used to carry out the operations described in this Manual. Harken Italy S.p.A. accepts no responsibility for malfunctions or damage to persons or property due to improper use of the machine.

9. IMPROPER USE

The Winch must not be used:

- for uses other than those outlined in the “Intended Use” paragraph, that are for uses not mentioned in this manual or different from those mentioned
- if unauthorised modifications or interventions have been carried out owing to the replacement of parts with non-original spare parts
- in an explosive atmosphere
- in a flammable atmosphere
- after a fall from a height of more than 1 metre onto a hard surface. In this case, send the Winch to the manufacturer or to an authorised Harken service centre
- with wire ropes
- with textile ropes with different diameter or types other than those envisaged
- with loads greater than the Maximum Working Load (MWL) of 500 kg for lifting/lowering loads
- in case of failure to follow the procedures in this Manual with particular reference to those for positioning and fixing
- if the machine is used by personnel in unsuitable psychophysical conditions
- if the machine is used without following the safety regulations, the technical standards, and the laws in force in the place in which the machine is put into operation

WARNING!

Subjecting the Winch to loads greater than the Maximum Working Load (MWL) can cause the Winch or mounting surface to break suddenly, with the risk of serious injury or death.

10. CLOTHING AND PPE

Operators must not work with loose long hair and must not wear any loose-fitting clothing which could get caught in moving parts of the Winch. Appropriate work clothes consist of tight-fitting clothing, especially for the upper limbs.

Wear mechanical protection gloves when using the Winch.



11. RESIDUAL RISKS

Always pay attention to the following residual risks present when using the Winch that cannot be eliminated:



WARNING! Risk of trapping, dragging

Entanglement and dragging hazard may arise owing to the moving parts of the Winch. In this case, stop the Winch immediately. Always wear the appropriate PPE, always follow the instructions in the Manual.



WARNING! Falling Materials

Always make sure that there are no persons underneath the load before proceeding with its moving.

12. LOADS

The Maximum Working Load (MWL) of the Top-Crank LokHead Rigging Winch 500 is as follows:

- 500 kg (1102.31 lbs) for lifting/lowering loads



WARNING!

Do not apply a load exceeding the Maximum Working Load (MWL) to the Top-Crank LokHead Rigging Winch 500.

13. REQUIREMENTS OF ROPES AND LIFTING ACCESSORIES

The Winch is supplied without lifting rope and accessory. The user is in charge of the choice and installation of such devices.

The choice has to be made according to the following indications.

WARNING!

- Use only ropes and lifting accessories in good condition.
- Do not use with wire ropes.

When using the Top-Crank LokHead Rigging Winch 500 for lifting/lowering loads:

WARNING!

- Use only fibre ropes compliant with the Machinery Directive 2006/42/EC having diameter between 12.7 and 9 mm with a usage coefficient of at least 7.
- Textile ropes used must not have any splicing other than that at their ends.
- Regardless of the path of the textile rope used, the machine must always have 2 rope turns (500 mm) wrapped around the drum and the section of rope in the pulleys. The user must mark this section of rope. For instructions on how to mark the rope, refer to the instructions provided by the rope manufacturer.
- To prevent the load from falling, suitable hooks or lifting accessories must be used. The hooks and lifting accessories used must comply with any applicable standards and directives (including, for example, compliance with point 5.5.8 of UNI 13157:2009).
- The textile rope and the hooks or lifting accessories used must be marked and the identification plate must bear the information required in paragraphs 4.3.1 and 4.3.2 of Annex I of the Machinery Directive 2006/42/EC.
- For the correct maintenance of the rope or the use time/modes that require its replacement, refer to the relevant Use Manual.
- For the correct maintenance of the lifting accessories or the use time/modes that require their replacement, refer to the relevant Use Manual.
- Use only lifting accessories compliant with the Machinery Directive 2006/42/EC. Do not fasten the loads to the rope with knots.
- Use only a rope-terminal system that ensures a suitable utilisation factor equal at least to 5 pursuant to the Machinery Directive 2006/42/EC.

14. TECHNICAL DATA

Rope:	9-12.7 mm rope for lifting/lowering loads
Maximum Working Load (MWL):	500 kg (1102.31 lbs) for lifting/lowering loads
Power ratio:	13.50:1 - 1 st speed / 39.90:1 - 2 nd speed
Gear ratio:	2.13:1 - 1 st speed / 6.28:1 - 2 nd speed
Weight of Winch INTCLHRW500KIT:	7 kg (15.4 lb)
Handle weight:	0.5 kg (1.10 lb)
Plate weight:	2.8 kg (6.17 lb)
Weight of Winch INTCLHRW500KIT:	290 x 290 x 444 mm (11.42 x 11.42 x 17.48 ")
Size of Winch INTCLHRW500:	ø 157 x 444 mm (ø6.18 x 17.48 ")
Recommended working temperature range:	-10°C +50°C

15. ENVIRONMENTAL CONDITIONS

The Winch is designed and built to be used within a use temperature range from -10 °C to +50°C.

WARNING!

The Winch was not designed and built to work in environments with explosive atmospheres, in the presence of fine dust or corrosive gases, in the presence of acids, corrosive agents or salt; moreover, it is unsuitable for use in the presence of ionizing and non-ionizing radiation (X-rays, lasers, microwaves and ultraviolet rays).

Using the machine in environments with conditions other than those indicated in this Manual may lead to a dangerous situation.

16. INSTALLATION

INSTALLATION OF TOP-CRANK LOKHEAD RIGGING WINCH 500

Mounting surface

The Winch must be installed on a surface able to withstand at least 4 times the working load. In case of application of the Maximum Working Load of 500 kg, the surface will have to support 2000 kg.

Entry angle of the lifting rope on the Top-Crank LokHead Rigging Winch 500 INTCLHRW500

The 8° entry angle of the rope on the Winch with a tolerance of $\pm 2^\circ$ is ensured by the rope guide installed on the plate to avoid rope overrides.

WARNING!

Check the entry angle of the rope. To avoid rope overrides, damage of the Winch or rendering the Winch unusable, leading to loss of control, with the risk of serious injury or death, the angle must be 8° with a tolerance of $\pm 2^\circ$ (See figure **16.3**).

Install the Winch so that the drive gear is positioned where the rope enters the Winch drum (see figure **16.3**).

Note: The symbol ▲ on the Winch skirt identifies the position of the drive gear.

WARNING!

Install the Winch so that the drive gear is positioned where the rope enters the Winch drum. Incorrect positioning of the drive gear can weaken the Winch causing failures, with the risk of serious injury or death.

Entry angle of the lifting rope on the Top-Crank LokHead Rigging Winch 500 INTCLHRW500KIT

The Winch must be installed so that the lifting rope can reach the Winch drum through the pigtail, with a deflection angle on any plane not exceeding 30° (see figure **16.4-16.5**). If necessary, the installation should use idle pulleys to ensure a correct load on the Winch. The pigtail should not have any angular load.

The Winch must be installed in such a position as to allow sufficient working space around, so as not to hinder the operation of the handle.

The Winch must be installed in a position that ensures the visibility of the lifting trajectory by the operator at all times.

Winch positioning

The Winch must be installed in a position that allows sufficient space around the Winch, so as not to hinder the operation of the handle and the descent.

The Winch can be positioned horizontally, vertically or at an angle, according to the installation needs. The Winch must be installed in a position that ensures the visibility of the lifting trajectory by the operator at all times.

Harken® shall not be liable in the event of a defective installation.

The installer is responsible for carrying out all the structural tests necessary to guarantee that the mounting surface can withstand the load.

⚠ WARNING!
 Incorrect installation of the Winch can cause serious injury or death. In the event of any doubts about the correct positioning of the Winch, contact the Winch supplier.

Winches installed in a work station or left in place between one inspection and the next should be adequately protected from ambient conditions.

Installation procedure of Top-Crank LokHead Rigging Winch 500 (INTCLHRW500)

Install the Winch, separately purchasing five (5) M6 hex head (HH) bolts (galvanized, 10.9 UNI EN ISO 4014:2003). Harken® does not supply the necessary bolts to install the Winch as the length may vary depending on the installation surface.


The final installer is responsible for choosing the appropriate screws, taking into account the loads they will have to bear.

Harken shall not be liable in the event of improper installation of the winch or plate or in the event of improper use of the fixing screws.

Harken® shall not be liable in the event of a defective installation or tampering with the winches.

For further information, please contact the Harken® Tech Service - techservice@harken.it

⚠ WARNING!
 The use of an incorrect number or type of fixing elements or the incorrect resistance of the mounting surface may result in a sudden and unexpected failure of the Winch in the event of high loads, with consequent serious injury or death.

Necessary tools: a medium flat blade screwdriver 

Step 1: Remove the skirt using a screwdriver, positioning it as shown in figure **16.6**

Step 2: Remove the skirt and place the 5 M6 hex-head screws in their holes, see figure **16.7-16.8**

ⓘ NOTE!
 1/4" hex-head screws are not suitable for this procedure.

Step 3: Replace the skirt on the base, pushing it into the correct position, see figure **16.9**

! NOTE!

Make sure the skirt is properly hooked onto the Winch base.

Proceed to install the Winch according to the following procedure:

1. Install the Winch on a flat surface in the chosen position.
2. Place the Winch base in the area selected and mark the holes or use the drilling template (figure **16.1**). The drilling template is available on the Harken® website, www.harken.com. Download, print and compare the template to the Winch to check that the template size and the position/size of the holes are correct. See small template on the following page.

! NOTE!

When downloading the Winch drilling template make sure that you use the correct paper size and that the printer prints at 100%. Before drilling, check that the template is correct in every detail. Harken is not liable for incorrect drilling caused by a defective template

3. Remove the Winch and drill the five (5) 6.2 mm diameter holes. For drilling and tapping refer to the sector standards for the size of the drill/tap. **Important:** do not flare the holes. Besides, make a hole of min. 78 mm at the centre
4. Screw the Winch base onto the support plate. Use screws of the correct length for the thickness and the type of support surface. In the event of any doubts, contact the manufacturer. Use five (5) M6 hex head (HH) screws, washers and nuts.

NOTE! !

1/4" hex-head screws are not suitable for holes and cannot be used to install the Winch.

5. To ensure the correct Maximum Working Load (MWL) all the five screws, nuts and washers must be correctly tightened (Torque 10 Nm).

! WARNING!

The use of an incorrect number or length of the fixing elements and/or the incorrect tightening may result in a sudden and unexpected failure of the Winch in the event of high loads, with consequent serious injury or death.

Installation procedure of Top-Crank LokHead Rigging Winch 500 (INTCLHRW500KIT)

Il Top-Crank LokHead Rigging Winch 500 can be used by means of the plate fixing in various manners: ratchet belts, snap shackles, or 4 M10 screws, creating a lifting solution that is really universal and adaptable.

The installer is responsible for choosing the appropriate screws, taking into account the loads they will have to bear.

Harken shall not be liable in the event of improper installation of the Winch or plate or in the event of improper use of the fixing screws.

WARNING!

The use of an incorrect number or type of fixing elements or the incorrect resistance of the mounting surface may result in a sudden and unexpected failure of the Winch in the event of high loads, with consequent serious injury or death.

Example of Winch anchorage by means of the 4 \varnothing 11 holes present on the plate (figure **16.10**).

Place the Winch base in the area selected and mark the holes or use the drilling template (figure **16.2**). Use 4 M10 countersunk screws of suitable length. Install the Top-Crank LokHead Rigging Winch 500 plate, fixing it with 4 M10 screws, washers and nuts on a flat surface withstanding a load of 2400 kg.

Example of Winch anchorage by means of the 2 straps in the plate holes (figure **16.11**).

Example of vertical Winch anchorage by means of the strap in the side plate holes (figure **16.12**).

The structure on which the plate is fixed must be bigger than the width of the plate to prevent deformations. Ensure that the plate is securely attached to the mounting surface, so that it can operate under load without significant movement.

17. USE

USING THE WINCH (ALL VERSIONS) - CHECKING THE WINCH BEFORE USE

Before and after each use, visually inspect the Top-Crank LokHead Rigging Winch 500 and the plate for signs of wear, damage or breakage. If there are any signs, do not use the machine. If the worn or defective parts are not promptly replaced, the manufacturer shall not be liable for any accidental damage that may result. Check that all the plates, labels and indications on the machine can be read clearly. In the event of damage, removal, or if they cannot be read any longer, they must be promptly restored. Check the mobility of the lid (see figure **17.1**).

Make sure that, rotating the knob, the upper rope grab opens and returns to the release position of the knob (see figure **17.2**).

WARNING!

- For safety purposes, the use of the Winch must be interrupted immediately in case of some doubts about safe use and must not be reused until written confirmation of its acceptable use by a competent person.
- Before each use, visually inspect the Top-Crank LokHead Rigging Winch 500 for signs of wear, damage or breakage. If there are any signs, do not use the machine. If the worn or defective parts are not promptly replaced, the manufacturer shall not be liable for any accidental damage that may result.
- Before each use, inspect the Winch and the rope grabs for signs of wear, damage or breakage that could compromise the strength and operation of the locking system. Check the lifting/lowering rope to make sure it is not worn. In case of doubt, replace it with a sufficiently strong one.
- Before each use, check that the Winch base is firmly attached to the plate. The use of an incorrect number or length of the fixing devices and/or the incorrect tightening may result in a sudden and unexpected failure of the Winch in the event of high loads, which could cause the load to fall, with consequent serious injury or death.
- Before each use, check that the Winch drum cannot be manually rotated counter-clockwise. When operating the Winch drum, it must rotate only clockwise.
- In lifting/lowering systems, check that there are no sharp edges, which could cut, drag, fray or wind the rope.

ROPE POSITIONING

WARNING!

Keep fingers, loose clothing, hair, etc. away from the Winch. The area around the Winch handle must be kept free from persons and objects at all times.

1. Pass the rope inside the pigtail. Starting from the base, wind the rope on the drum clockwise (see figure **17.3**).
2. Ensure that the rope does not override on the Winch. Pull the rope until any slack on the Winch drum is eliminated, then pass the rope over the stripper arm, winding it clockwise and keeping the tension to engage it in the rope grabs (see figure **17.4**).

WARNING!

Wind the rope at least twice clockwise around the Winch drum, and if the rope slips once under load, increase the number of windings up to a maximum of 4, taking care not to cross the rope over.

NOTE!

The number of windings required around the Winch drum depends on the load and condition of the rope. Before using, check the descent capacity in the work configuration. In case of difficulty, unwind the rope, and reduce the number of windings to a minimum of 2, in order to obtain the optimal configuration.

WARNING!

Never allow the rope to override on the Winch drum. This can cause the rope to jam and prevent the load from being lifted/lowered. To eliminate override, reduce the tension of the load on the rope. This procedure has a risk of serious injury or death if the load falls or becomes uncontrollable.

3. Pass the rope between the two rope grabs. To facilitate the operation, lift the cover (see figure **17.4**).

WARNING!

Make sure that the rope is correctly positioned on the stripper arm and inside the spring pre-loaded self-locking rope grabs (see figures **17.6-17.7**).

LIFTING (ALL VERSIONS)

1. Start by turning the handle counter-clockwise (see figure **17.8**). The gears are engaged automatically according to the direction of rotation.

- 1st gear (faster = less power): turn the handle counter-clockwise.
- 2nd gear (slower = more power): turn the handle clockwise.

2. When the handle becomes difficult to turn in 1st gear, invert the direction of rotation to engage the 2nd gear (see figure **17.9**). A higher power ratio (2nd gear) makes it easier to lift a heavier load with the same effort.

NOTE!

The maximum inlet speed of the Top-Crank LokHead Rigging Winch 500 is 60 rpm.

LOWERING LOADS (ALL VERSIONS)

To lower the load, grab the rope coming out from the Winch with a hand and the knob with the other hand. Rotate the knob slowly clockwise (see figure **17.2**).

The sheaves will open and to allow the rope to slide over the Winch drum and ensure a controlled descent of the load. To adjust the descent speed, check the opening of sheaves manually through the knob.

To stop load lowering, release the knob completely.

During lowering/descent of the load, avoid loosening the rope between the anchorage point and the person.

⚠ WARNING!

- In case of difficulty when lowering the load, unwind the rope, and reduce the number of windings to a minimum of 2, in order to obtain the optimal configuration. Do not fully unwind the rope from the Winch until the tension on the rope has been completely eliminated.
- During lowering operations it is vital to check the free end of the rope, to reduce the risk of serious injury or death. Tie a knot in the free end of the rope to prevent it from coming out of the Winch.
- It is vital that the lowering of load is always under control as loss of control can be difficult to recover.
- Be careful during or after prolonged lowering of the loads, as the Winch may overheat and damage the rope.

18. USEFUL LIFE

The Top-Crank LokHead Rigging Winch 500 and its accessories have a useful life of 30 years from the date of construction, provided there are no causes that may determine their withdrawal and provided that all the required periodic inspections and any necessary maintenance are carried out, with the results recorded in the Inspections/Repairs log.

The date of construction is indicated in the serial number (present on the Winch plate), on the Winch plate and on the declaration of conformity.

Winch serial number:

S XXXXX
XXXXXXXXX

last two numbers of the year of production of the machine (e.g. 23 = year 2023).

⚠ WARNING!

For the duration of the rope and the lifting accessories used, refer to the documentation and information provided by the manufacturer of the devices.

19. MAINTENANCE

After any maintenance job the Winch must be tested to make sure it works correctly.

Any maintenance job must be performed by skilled personnel trained on the procedure to operate properly and safely on the machine.

! NOTE!

The frequency of periodic inspections depends on the legislation, the type of equipment, the frequency of use and the environmental conditions. Have the Winch and its accessories formally inspected by qualified personnel, no later than 12 months from the first date of use. Schedule a subsequent inspection within 12 months of the first. The inspector may postpone complete servicing if the inspection is positive, up to a maximum of 36 months from the date of purchase.

At their discretion, after the inspection the Inspector may make the following decisions:

- a) The Winch is still functional, so it can be used and a positive inspection report is issued. This inspector may do this for up to a maximum of 36 months from the date of purchase of the Winch.
- b) The Winch is not usable and requires servicing. In this case, the device is not suitable for use and, prior to being back into use, it must pass the servicing test.

Do not use the Winch without having carried out the mandatory periodic inspection. The inspection carried out by an authorised Harken Inspector must be recorded in the equipment control sheet present in this Manual and the Inspection report signed by the Inspector must be kept by the Winch owner.

! WARNING!

- Regular periodic inspections are necessary for the safety of users, which depends on the continuous efficiency and durability of the equipment.
- It is not possible to make alterations or additions to the equipment without the prior written consent of the manufacturer.

! NOTE!

- Check the legibility of the Winch marking.
- Do not replace or modify the Winch with a component that is not designed for this purpose.

! WARNING!

- Periodic maintenance must be carried out regularly. Lack of proper maintenance reduces the life of the Winch and its accessories, can cause serious injury and invalidate the Winch warranty. The Winch and its accessories must only be serviced by the manufacturer or by qualified personnel authorised by the manufacturer, in strict compliance with the manufacturer's periodic inspection procedures.
- When the Top-Crank LokHead Rigging Winch 500 gets wet, due to use or cleaning, it must be allowed to dry naturally and kept away from direct heat.

In addition to the content of this manual, for optimal maintenance, it is necessary to refer to the maintenance prescriptions of the suppliers of the rope and the lifting accessories used.

Cleaning

Often wash the Winch and its accessories with fresh water and allow them to dry naturally and away from direct heat.

Do not allow cleaning products or other cleaning substances containing caustic solutions to come into contact with the Winch and its accessories, especially with anodised, chrome-plated or plastic parts. Do not use solvents, polishes and abrasive pastes on the logos and stickers on the Winch.

20. PACKAGING, TRANSPORT, AND STORAGE

Each Winch is supplied by Harken in its original packaging in order to prevent dust and dirt and potential damage. Check the integrity of the packaging and if it is damaged, before using the Winch, carry out a thorough inspection. Store the Winch in a dry, ventilated place, with low humidity and not in a saline environment to avoid corrosion and protect the product from impacts, chemical reagents or possible damage that could reduce the useful life or affect the performance of the Winch.

Keep away from extreme temperatures: below -10°C or above $+50^{\circ}\text{C}$.

Excessive heat can deform some components.

Extreme cold can damage any fragile materials and cause the lubricating products to freeze.

Use the original packaging for transport and storage.

! NOTE!

When positioning the Winch on the ground, gently place it on the floor, to avoid damaging machine parts.

21. DISPOSAL

When disposing of the machine, it is appropriate to separate the different materials for subsequent re-use or separate disposal.

The waste material must be disposed of in such a way as not to present any risk to the operators' health and safety.

22. ATTACHMENTS

The following attachments are an integral part of the Manual:

- CE Declaration of Conformity
- Dynamic operational test Par.6.3.2.3 EN 13157:2009 (the test certificate is indicated on the label on the Winch box)

The technical documentation attached to this Manual must be considered its integral part.

23. CONTROL SHEET

Keep a control sheet for each device with the following details (see the register below as example). It is the responsibility of the user organisation to provide the register, to enter the required details in it and to file the mandatory Inspection Report signed by an authorised Harken Inspector.

(1) Equipment control sheet, (2) Product / Model / Type, (3) Description, (4) Serial number, (5) Manufacturer, (6) Address, (7) Telephone / Fax / E-mail / Website, (8) Manufacturing year, (9) Purchase date, (10) Date of the first use, (11) Other relevant information (i.e. document number, maintenance and use frequency), (12) Inspection history / Repairs, (13) Date, (14) Issue reason (regular inspection or repairing), (15) Faults detected, Repairs carried out and other relevant information, (16) Name and signature of the competent person, (17) Date expected for the next regular inspection.

HARKEN[®]

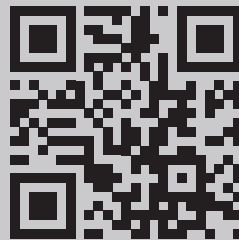
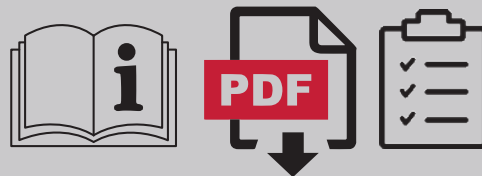
Manufacturer

Harken Italy S.p.A.

Via Marco Biagi 14, 22070 Limido Comasco (CO), Italy

Tel. 031.3523511; Fax 031.3520031

Email: info@harken.it - Web: www.harken.it



www.harken.com