



CEVEDALE MONO

#842010000KK

EN

TABLE OF CONTENTS

	1 - GENERAL INFORMATION	5
	2 - WORKS AT A HEIGHT	6
	3 - MAINTENANCE AND STORAGE	7
	4 - PERIODIC INSPECTIONS	7
	5 - DEVICE LIFE	8
	6 - LEGAL OBLIGATIONS	8
	7 - GUARANTEE	8
	8 - SPECIFIC PRODUCT INFORMATION	9
	8.1 Technical characteristics	10
	8.2 Nomenclature of parts	10
	8.3 Installation	11
	8.4 Mode of use	12
	9 - CHECKS BEFORE AND AFTER USE	17
	10 - CERTIFICATION	17
	PICTOGRAM'S LEGEND	18
	MARKING LEGEND	18
	SERIAL NUMBER LEGEND	19
	CONTROL CARD	19

1 GENERAL INFORMATION

A) Users must read and perfectly understand the information provided by the manufacturer (hereinafter 'information') before using the device.

WARNING

This information relates to the characteristics, services, assembly, disassembly, maintenance, conservation, disinfection, etc. of the device. Although it does include some suggestions on how to use the device, it must not be considered a true to life instruction manual the same as an operating and maintenance handbook for a car does not teach how to drive it and does not replace a driving school).

WARNING

Climbing rocks and ice, abseiling, via ferrata, speleology, alpine skiing, canyoning, exploration, rescue work, tree climbing and works at height are all activities with a high degree of risk, which may lead to accidents and even death. The user takes complete responsibility for the risks deriving from these activities and from using our device.

This device must be used only by individuals medically fit that have been trained (and educated) in its use, or under the direct control of instructors/supervisors who can guarantee their safety.

B) Before and after using the device, the user must perform all the inspections described in the specific information and, in particular, must make sure that the device is:

- in perfect condition and working well,
- suitable for use: only the techniques that are not crossed out are permitted, any other use is considered improper and therefore potentially dangerous.

C) If the user has the slightest doubt concerning the efficiency of the device, it must be replaced immediately, particularly after having used it to stop a fall. Improper use, deformation, falls, wear, chemical contamination, exposure to temperatures below -30°C or higher than +50°C for the textile/plastic components/devices, and +100°C for metal devices, are some examples of other causes that may reduce, limit or end the life of the device. We strongly suggest using the device personally in order to continuously monitor the degree of protection and efficiency.

D) This device can be used combined with personal protective equipment that conforms to Directive 89/686/EEC when compatible with the relevant information from the manufacturer.

E) The anchoring position is essential for safely stopping a fall: carefully assess the free height under the user (clearance), height of a potential fall, rope paid out, the stretch in any energy dissipaters or absorbers, the height of the user and the "pendulum" effect in order to avoid all possible problems (e.g. ground, material rubbing against the rock face, abrasions, etc..).

F) Minimum resistance of anchoring points, on both natural and artificial elements, must be 12 kN. The assessment of those made on natural elements (rocks, plants, etc.) is possible only empirically, and must therefore be performed by a competent expert, while those on artificial elements (metal, concrete, etc.) can be calculated scientifically, and must therefore be performed by qualified personnel.

G) It is strictly forbidden to modify and/or repair the device.

H) Avoid exposing the device to heat sources or to contact with chemical substances. Reduce direct exposure to the sunlight to a minimum, particularly for textile and plastic devices.

At low temperatures and in the presence of moisture can form ice that, on textile devices, can reduce flexibility and increase the risk of cutting and abrasion.

I) Make sure that the device has been supplied complete, in its original packaging and with the manufacturer's information. It is compulsory for dealers selling products in countries other than the original destination to check and supply the translation of this information.

L) All our devices are tested/inspected piece by piece in accordance with the procedures of the Quality System certified according to the UNI EN ISO 9001 standard. Our personal protective equipment is certified by the accredited authority indicated in the device's specific instructions and, if they belong to category III, are also subjected to production surveillance - in compliance with article 11/B of Directive 89/686/CEE - by an authority whose accreditation number is indicated on the device.

WARNING

Laboratory tests, inspections, information and norms do not always manage to reproduce what actually happens in practice, and so performance under real usage conditions in a natural environment can differ, sometimes even considerably. The best information can be gained by continual practice under the supervision of skilled, expert, qualified individuals.

2 WORK AT A HEIGHT

Additional information for protective equipment against falls from a height.

For the sake of safety in case of risk of falls from a height, it is essential to:

- assess the risks and make sure that the whole system, where this device is only a component, is reliable and safe,
- prepare a rescue plan to deal with any emergencies possibly arising while the device is being used,
- make sure that work is done in such way as to reduce potential falls and relevant heights to a minimum,

- make sure that:
 - anchoring points are positioned above the user,
 - the devices used are suitable for the purpose and are certified.

IMPORTANT:

In a system for protection against falling from heights, it is obligatory to use a complete harness in compliance with current regulations.

3 MAINTENANCE AND STORAGE

Device maintenance consists of:

- Frequent washing in warm drinking water (30°C), possibly with the addition of neutral detergent. Rinse and, without spinning, leave it to dry without leaving it in the direct sunlight.
- Lubricate moving parts (only for metal devices) with silicon-based oil. This operation is to be performed once the device has dried out, being careful to avoid contact with textile components.

In addition, if necessary:

- disinfect the device, soaking it in warm water containing 1% of sodium hypochlorite (bleach). Rinse with drinking water and, without spinning, leave it to dry without leaving it in the direct sunlight. Avoid sterilising textile devices in an autoclave.

Storage: store the devices in a dry (40-90% relative humidity), fresh (temperature 5-30°C) and dark place, chemically neutral (absolutely avoid salty and/or acid environments), away from sharp edges, corrosive substances or other possible detrimental conditions.

4 PERIODIC INSPECTIONS

We would strongly advise having pre and post use controls carried out by qualified individuals, as indicated in the instructions for the specific device.

Except in the case of more stringent legal requirements, devices must be inspected

annually and the inspections must be performed by a competent person that has been trained and authorised by the manufacturer. The outcome of these periodic inspections must be recorded on the device's inspection chart.

5 DEVICE LIFE

Read point 1C very carefully. The life of metal devices is theoretically unlimited, while textile and plastic devices can last 10 years from the date of production as long as: maintenance and storage are carried out as described in point 3, the results of pre-

use, post-use and periodic inspections are all positive, and the device is used correctly, not exceeding 1/4 of the indicated load. Discard any devices that do not pass the pre-use, post-use and periodic inspections.

6 LEGAL OBLIGATIONS

Professional and recreational activities are often regulated by specific national laws that may impose specific limits and/or requirements for the use of PPE and the preparation of safety systems, which

included the PPE in their components. The user is obliged to know and apply these laws, which may in some cases impose obligations different from those contained in this information.

7 WARRANTY

The manufacturer guarantees that the device complies with regulations in force at the time of production. The guarantee covering faults is limited to production defects and raw materials. It does not include wear and tear, oxidation, damages caused by improper use and/or during competition, incorrect maintenance, transport, conservation, storage, etc. The guarantee becomes void as soon as the device is modified or tampered with. The validity corresponds to the legal guarantee of the country where

the device was sold by the manufacturer, with effect from the date of sale. After this period no claim can be made against the manufacturer. Any request for repair or replacement under this warranty must be accompanied by a proof of purchase. If the defect is accepted, the manufacturer, at its sole discretion, will repair, replace or refund the device. Under no circumstances does the manufacturer's liability extend beyond the invoice price of the device.

8 SPECIFIC INFORMATION

This class III Personal Protection Device, 842.010 known as a CEVEDALE MONO (fig. 1) is a:

- Type B anchoring device that conforms to the EN 795:2012 standard, suitable for use by 3 people simultaneously, in accordance with the CEN/TS 16415:2013 technical specification.
- Lifting device for rescue operations that conforms to the EN 1496:2006 standard, class B, with an additional hand-operated lowering function, intended for lowering a person by a distance limited to 2 m.

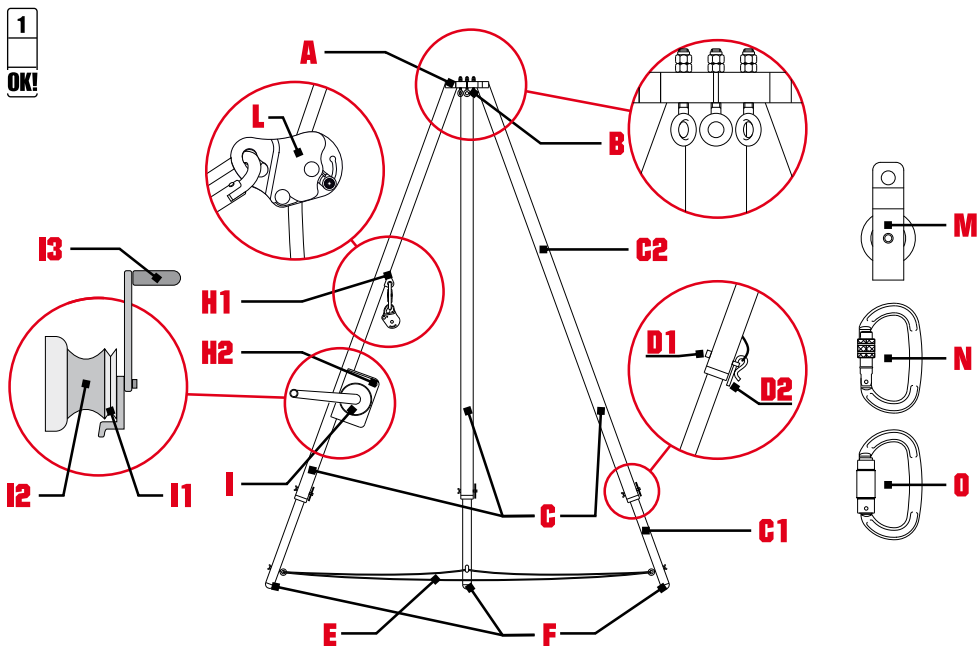
Note: for rescue maneuvers with descents longer than 2 meters, connect to the anchorage points a descender device conform to EN 341 (eg: 801.000 "Indy Evo" and 822.000 "Ortis").

WARNING

This device must not be used to arrest a fall, without an energy absorption system.

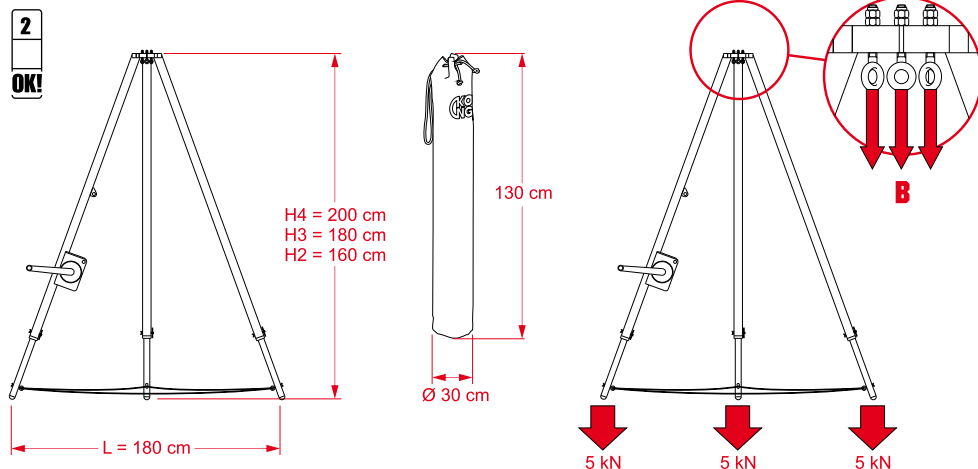
IMPORTANT

We recommend using this device only for lifting people.



8.1 Technical characteristics

- Device dimensions: shown in figure 2
- Maximum load transmitted to the ground: 15 kN (5 kN for each leg)
- Maximum lifting / lowering load, using a manual winch (I): 1,5 kN
- Maximum load that can be applied to a single anchoring point (B/H): 12 kN
- Maximum load that can be applied simultaneously to the anchoring points (B1/H): 15 kN
- Device weight: 20 kg



8.2 Nomenclature of parts

Fig. 1 - A) Top plate in aluminium alloy, B) Top anchoring points in stainless steel, C) Extendible legs in aluminium alloy: outer tube (C1) and inner tube (C2), D) Leg connecting pin (D1) with related locking pin (D2) in mild steel, E) Leg opening limiting cable in galvanised steel, F) Non-slip rubber support feet, G) Height adjustment holes (fig. 4) in the outer tube (G) and the inner tube

(G1-G4), H) Anchoring points in aluminium alloy located on the leg, I) Manual winch in aluminium alloy: I1 Self-tailing, I2 Drum, I3 Crank handle, L) "802.000" Back-up" locking and fall-prevention device in aluminium alloy, M) "819.000" Heavy Duty" pulley in aluminium alloy, N) "412.L10" oval connector in carbon-steel, O) "412.ZZ0" oval connector in carbon-steel.

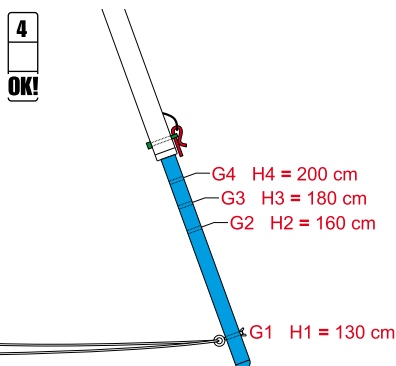
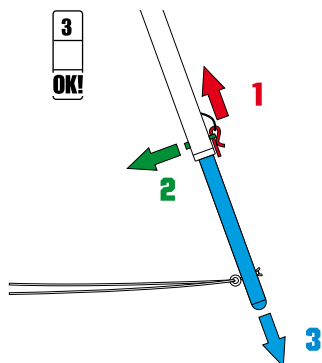
8.3 Installation

a) Adjusting the working height: position the tripod on a flat surface and, for each extendible leg (C):

- Remove the locking pin (D2) and remove the connecting pin (D1) from the hole (G/G1) - fig. 3.
- Pull the inner tube (C1) out as far as the hole that determines the working height chosen (fig. 4).
- Align the hole in the inner tube (G2, G3 or G4) with that in the outer tube (G). **Important:** the 3 legs (C) must be adjusted to the same height.
- Insert the connecting pin (D1) into the hole (G/G...), and secure it using the locking pin (D2).

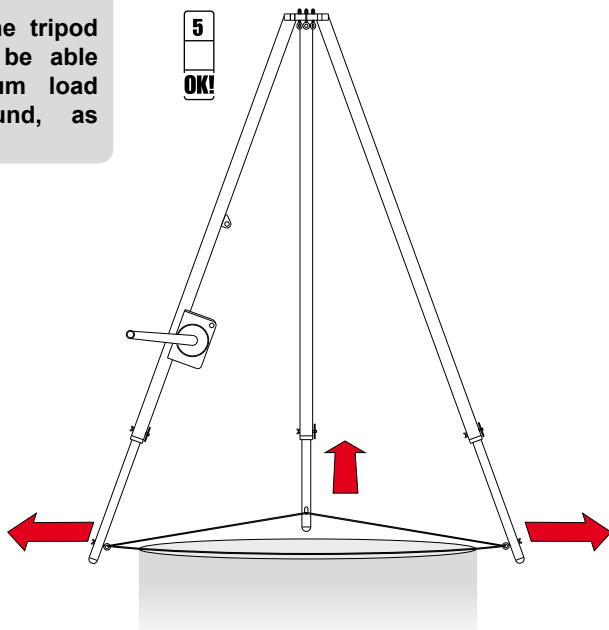
b) Stand the tripod up vertically, and spread the legs (C) outwards, until the cable (E) is taut – fig. 5.

c) Position the tripod so that the top plate is in the centre of the passage space (well, manhole) - fig. 5.



WARNING

The support surface for the tripod must be flat, stable and be able to withstand the maximum load transmitted to the ground, as indicated in point 8.1.



8.4 Mode of use

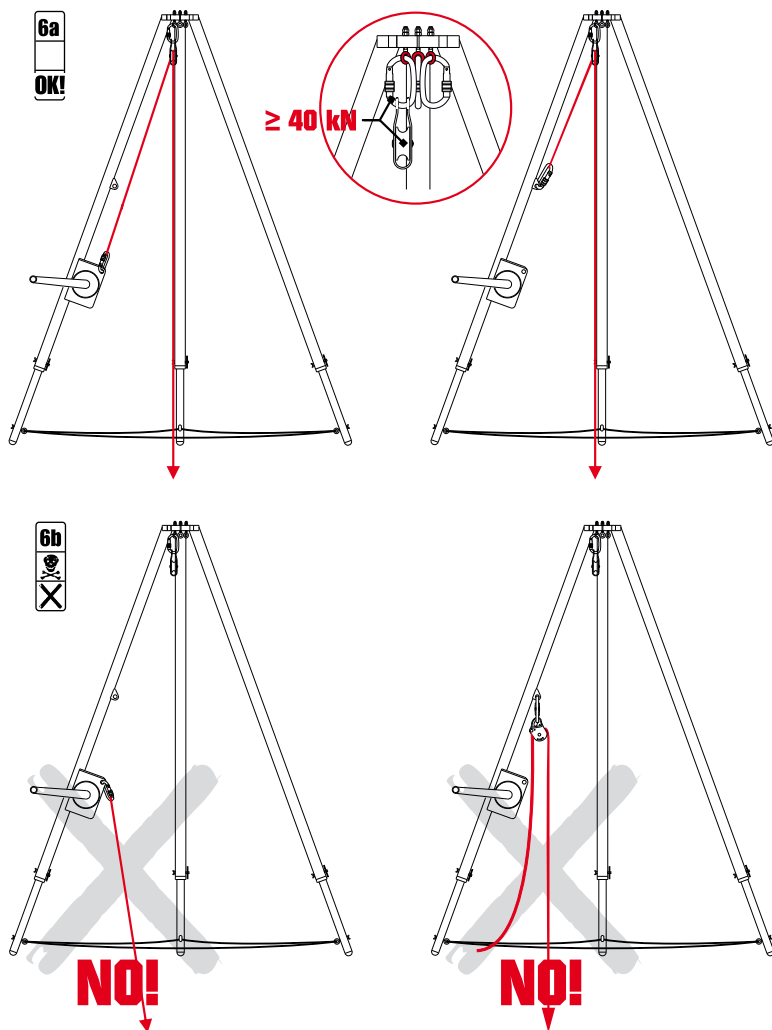
8.4.1 - Anchoring points

The following can be connected to the anchoring points (B and H):

- Flexible anchoring lines
- Safety lines
- Working lines
- Evacuation / emergency lines
- Retention devices and/or systems
- Positioning devices and/or systems
- Fall-prevention devices and/or systems

WARNING

- Do not use more than 3 anchoring points simultaneously.
- The lines connected to the anchoring points located on the leg (H) must be connected to one of the anchoring points at the top (B) using devices (connectors, pulleys, etc.) with a minimum breaking load of 40 kN - (fig. 6).



8.4.2 - Manual winch

Semi-static ropes (EN 1891) with a diameter of between 10 and 12 mm can be manoeuvred using the winch (I) to lift a maximum load of 1,5 kN for the entire length of the rope, and to lower it for short distances (max 2 m).

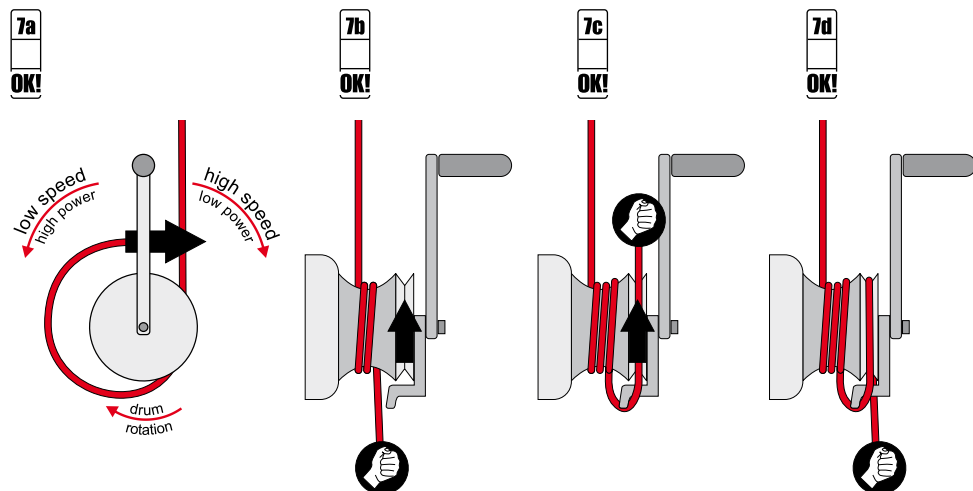
Lifting procedure:

- Wind the rope onto the drum (I2) clockwise, at least 3 turns (fig. 7A),
- Pass it over the self-tailing tooth (I1) as shown in figure 7B,
- Secure it in the groove in the self-tailing unit (I1) at least 1 turn, as shown in figure 7C.

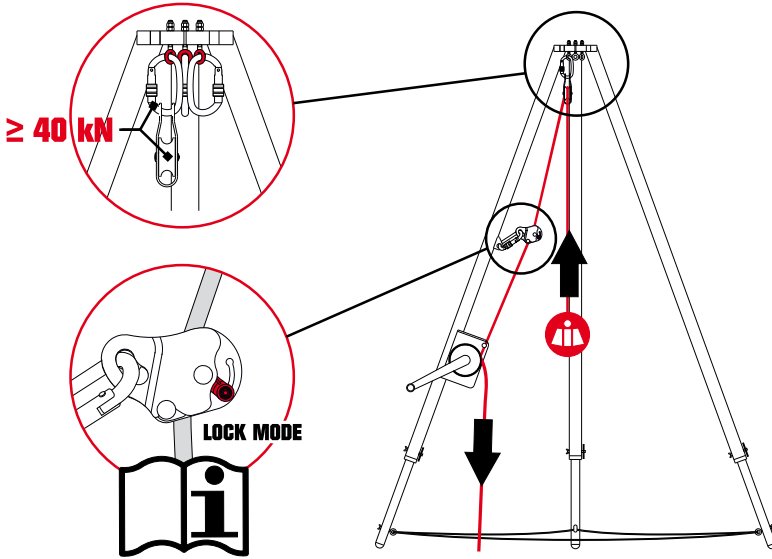
WARNING

The rope used for lifting using the winch, must be:

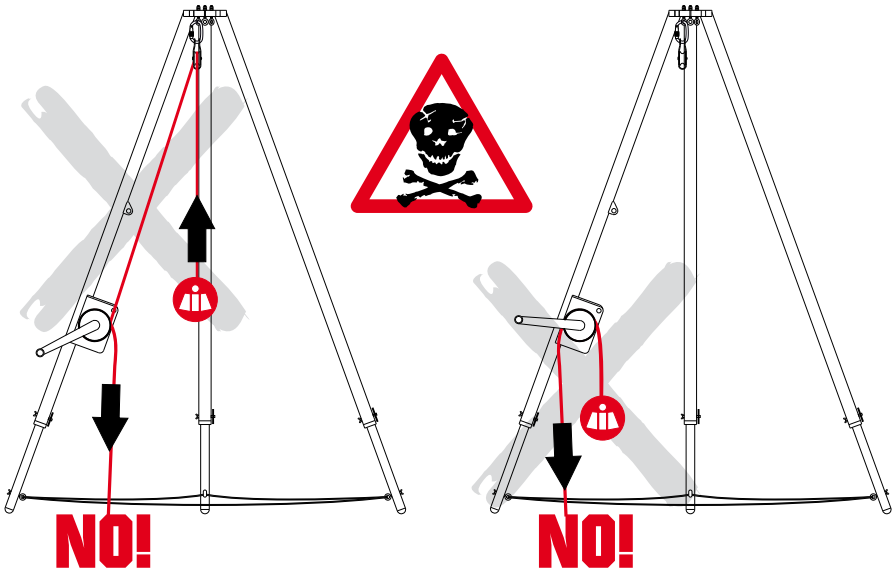
- Connected to one of the anchoring points at the top (B) using devices (connectors, pulleys, etc.) with a minimum breaking load of 40 kN.
- Inserted into the 802.000 "Back-up" locking device provided. Important: Check that the back-up device's selection lever is in the "lock mode" position (fig. 8).



8a
OK!



8b
X

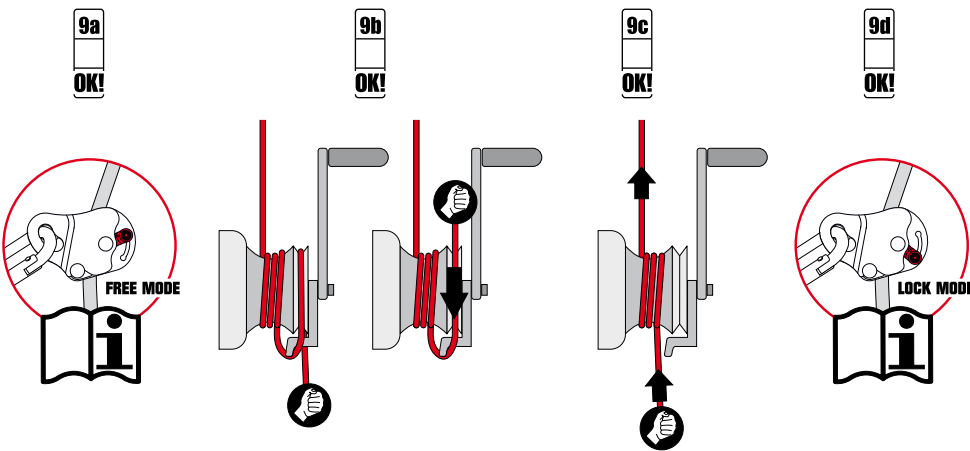


Technical characteristics of the winch

Direction of rotation of the crank handle (I3)	Weight lifted for each kg applied	Rope recovered for each turn of the crank handle	Rope diameter
Clockwise	7 kg	23 cm	10-12 mm
Anti-clockwise	28 kg	6 cm	10-12 mm

Lowering procedure:

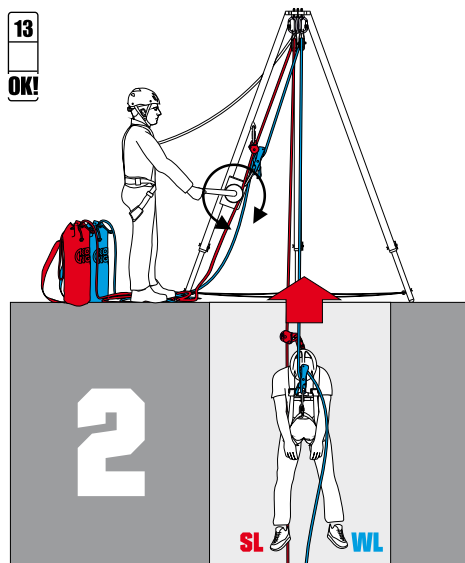
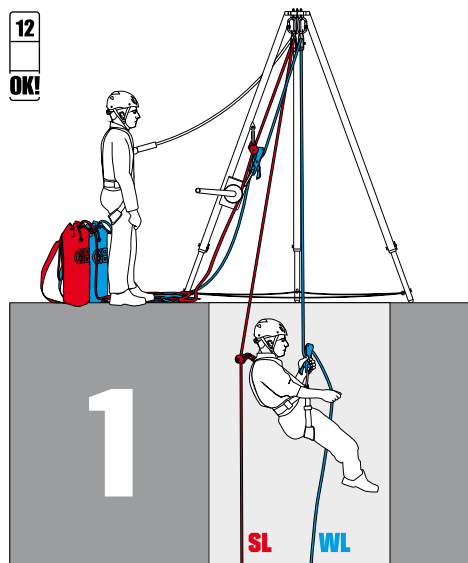
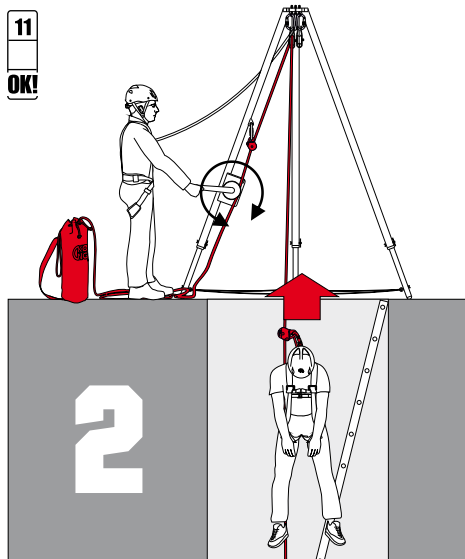
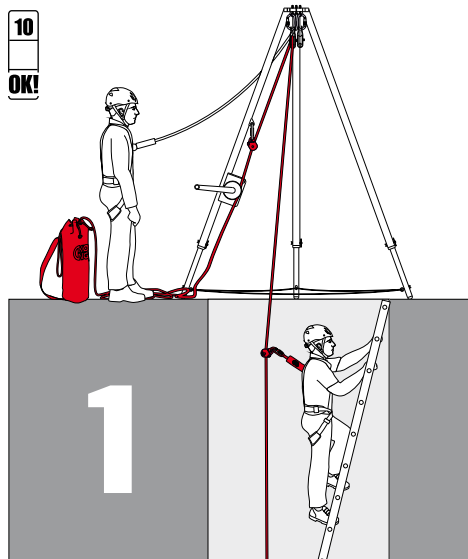
- Move the back-up device's selection lever to the "free mode" position (fig. 9A).
- Remove the rope from the self-tailing unit, and hold it by hand (fig. 9B).
- Allow the rope to slide slowly over the drum, for the lowering distance (fig. 9C).
- On completion of the lowering procedure, repeat the lifting procedure and move the back-up device's selection lever back to the "lock mode" position (fig. 7B, 7C, and 9D).



Examples of correct use:

- Fig. 10 - Access to a confined space equipped with a ladder, and related evacuation of the operator (fig. 11).

- Fig. 12 - Access to a confined space using a working line, and related evacuation of the operator (fig. 13).



9 CHECKS BEFORE AND AFTER USE

Check and make sure that the tripod, and especially the anchoring points (B and H), the winch drum, and the rope passage points, are clean, free of abrasive material, have not undergone any mechanical deformation, and do not have any cracks or traces of corrosion.

Also check that:

- The connection pins for the legs (D1) have the relevant locking pins (D2) inserted in them correctly.
- The winch drum rotates without any friction, when the crank handle is rotated clockwise and anti-clockwise.

Carry out all the checks before and after use indicated among the specific information for the devices used with the tripod.

Having completed the checks, in a safe position, check the device is working correctly.

10 CERTIFICATION

This equipment is certified by accredited body no. 0123 - TÜV SÜD Product Service GmbH Ridlerstraße 65, D-80339 Munich - Germany.

PICTOGRAM'S LEGEND

n°	Figures number
	Improper use, may be very dangerous!
	Never do it: risks of fatal accident!
OK!	Correct use
	Absolutely no correct use

MARKING LEGEND

CE	Conform	Directive 89/686/EEC
0426	Notified body for production inspection	ITALCERT V.le Sarca, 336 20126 Milano - Italia
EN 795/B:12	Conform *Type B: anchor device with one or more stationary anchor points without the need for a structural anchor	EN 795:2012 Type B
EN 1496/B:06	*Class B: component or sub-system of a rescue system, by which a person is lifted by a rescuer or lifts himself from a lower to a higher place with an additional hand-operated lowering function intended for lowering a person over a distance limited to 2 m.	EN 1496:2006 Class B
CEN TS 16415:13		CEN TS 16415:2013
842.010	Model	
 MAX 3	Max number of simultaneous users	
MAX 150 kg	Max rated load of the lifting device	
 10-12 mm	Type of rope and ø range	EN 1891
	Always read and follow the information supplied by the manufacturer	

SERIAL NUMBER LEGEND

YYYYYY ZZ XXXX	
YYYYYY	Serial number
ZZ	Year of production
XXXX	Progressive number

CONTROL CARD

1 - Item				
2 - Year of production			3 - Batch number	
4 - Date of purchase			5 - Place of purchase	
6 - Date of first use			7 - Name the user	
8 - Date inspection	9 - Result		10 - Comments	11 - Signature
				
				
				
				
				
				



KONG s.p.a.

Via XXV Aprile, 4 - (zona industriale)

I - 23804 MONTE MARENZO (LC) - ITALY

Tel +39 0341630506 - Fax +39 0341641550 - info@kong.it

www.kong.it