

Instruction manual for anchor lanyard HELI 11

certified according to EN 354:2010, EN 795:2012 / B + CEN/TS 16415:2013

Heli 11



Thank you for choosing VERTIQUAL®! You have purchased a high quality product that will reliably protect you and will be your companion for a long time when working at heights and depths. This manual must be read and understood before using the product! This product will be used with other equipment (components) thus forming a system for working at heights. Please refer to the instruction manual of each component in your system for compatibility and correct use! Following these instructions accordingly is essential for your safety. Failure to do so can result in serious or even fatal accidents! Keep these instructions together with the product, accessible to all users, so they can consult them whenever is needed!

WARNING! These instructions are a basic comprehensive guide to the safe use of the purchased equipment. They contain general information about the product, intended to help the user, but cannot cover all the situations that may occur in the daily activities and cannot in any case replace the specialized training courses for safety at heights. This PPE against falls from heights can only be used by well-trained users, who are familiar with the relevant legislation and who have successfully completed a special safety training course for working at heights.

WARNING! For works with risk of falling from heights or in depths, a risk assessment must be carried out in advance in accordance with current regulations and legal provisions (EN standards or specific national rules) that will provide adequate measures for safety and rescue!

WARNING! Instructions for use are updated when technical or legislative changes occur. The latest version of the instructions overwrites previous versions and is the only valid version. Please make sure you follow the instructions of the most recent version. You can download the most recent instructions from our website www.vertiqualsafety.com by accessing the section of each product. For help or additional questions, please contact us at office@vertiqualsafety.com or Tel. (+40) 0365/882143.

WARNING! The user must be medically fit and capable to ensure his own safety and act accordingly in possible emergency situations! Seek medical approval according to the national legislation in force!

WARNING! If the product is re-sold outside the original country of destination, the reseller must provide these instructions manual in the language of the country where the product will be used.

DESCRIPTION

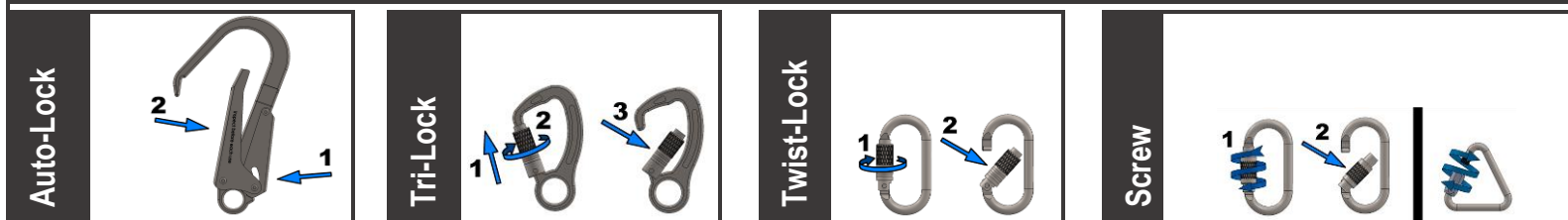
The **HELI 11** anchor lanyard is made of high tensile tubular PES webbing including a special HMPE insert which greatly increases the safety margin. The lanyard features an intermediate stainless steel O ring to which the two webbings are connected. Each webbing end is equipped with an EN 362:2004 certified connector. The anchor lanyard can have a length of maximum 2m (including end connectors).

FIELD OF USE

Anchor lanyards are used to create temporary anchor points (EN 795:2012 / B) when building systems for working at heights or rescue and are approved to be used by 2 persons simultaneously. These can be used also as connecting lanyards (EN 354:2010) in complex systems for working at heights or rescue. Along with other tested and certified components, the anchor lanyard can be used as a component (EN 354: 2010) in fall arrest systems. The purpose of this systems is to stop the free fall of the user, absorbing most of the shock and distributing the remaining force evenly, while holding the users body in a proper position until he or she is rescued. The product must be used exclusively as a PPEaF (Personal Protective Equipment against Fall), in usual environments with temperatures between -30°C and +50°C, without potentially explosive atmospheres, far away from flames, sparks or hot metal splash. Avoid contact with sharp edges, electricity, chemicals, corrosive solutions and substances, excessive heat, oils, paints or any other contaminants. The structures used for anchoring have to meet the requirements of EN 795:2012, must have NO sharp edges and must be capable to withstand minimum 12 kN for full metallic anchors or 18 kN for all the others. The anchor point must be located as high as possible above the user and as close as possible to the vertical axis of the user's position, thus reducing the fall distance and prevent pendulum accidents. The minimum free space below the user (fall clearance) must be ensured to prevent hitting the ground or any obstacles while the fall is arrested.

WARNING! This product is developed as a Personal Protective Equipment against Fall (PPEaF). Bringing modifications to it or assigning other uses are strictly forbidden! Each user shall use his own PPEaF as well as his own rescue equipment. The user must know the performances and limitations of his equipment! In case of uncertainty regarding the equipment seek advice from the manufacturer or distributor.

CONNECTORS: GATE OPENING / CLOSING

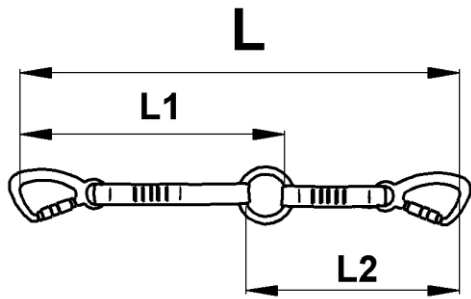


WARNING! If the lanyard is equipped with **SCREW** locking carabiners, please make sure that the gate is fully closed and tightened correctly, before using it! Note: **SCREW** locking carabiners shall NOT be used at workplaces where the user must connect/disconnect frequently! If the lanyard is equipped with **AUTO-LOCK**, **TRI-LOCK** or **TWIST-LOCK** carabiners, make sure that the gate is fully closed and secured before use.

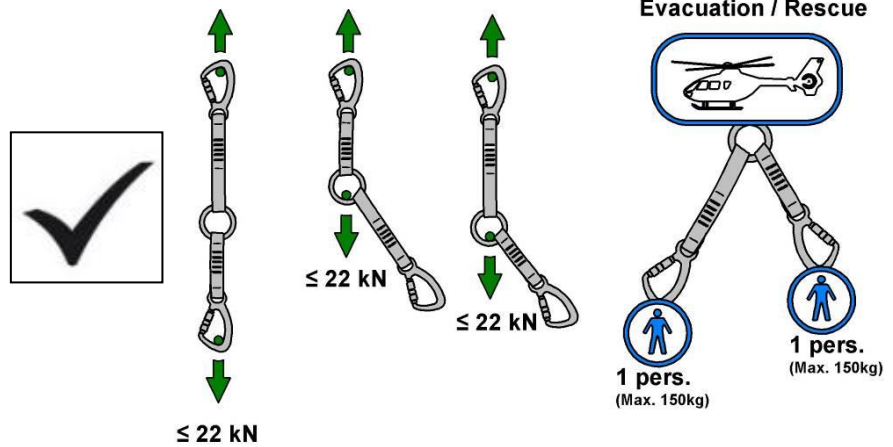
- The user must monitor their integrity, functionality and correct settings before, during, and after using their PPE!
- Avoid contact of the product with abrasive edges, sharp edges, greases and oils, corrosive chemicals, heat, flames, sparks and incandescent metal splash.
- This products can be used only by trained persons! Beginners may use it only under direct supervision of trained and experienced users!
- It is forbidden to intentionally or accidentally apply mechanical shocks to these products (eg. use for material handling or securing goods during transport etc.)!

Below some examples of correct / incorrect use of these lanyards and carabiners are presented. Please note that these are the most encountered situations in use, but a full list of all possible incorrect uses cannot be covered by this manual. Use only certified components for your system and read their instructions carefully, before use

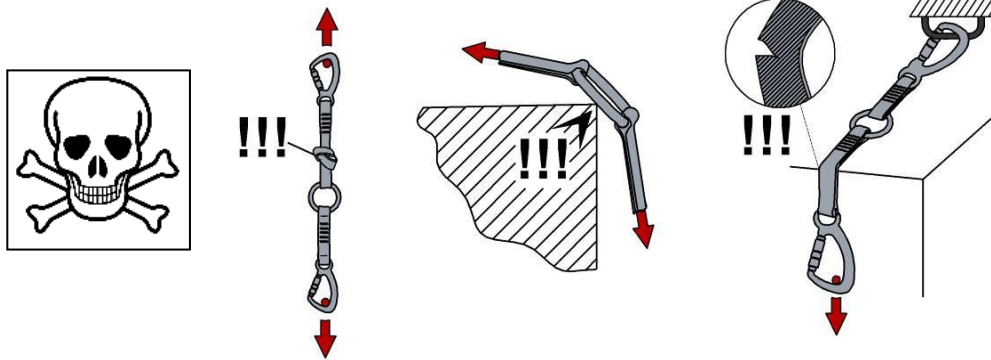
LENGTH



LANYARD - CORRECT LOADING

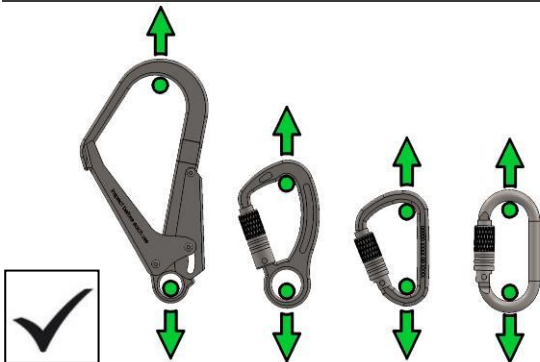


LANYARD - INCORRECT LOADING

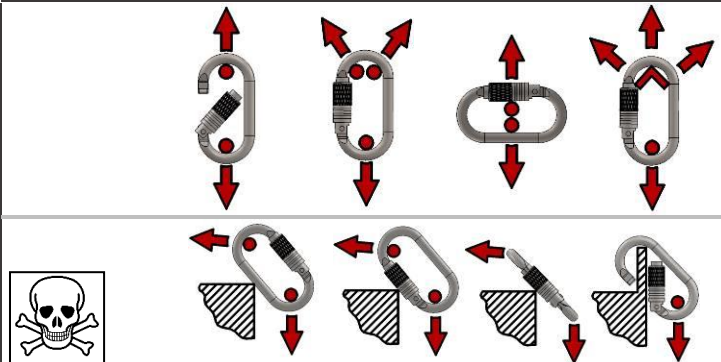


CONNECTORS: CORRECT / INCORRECT LOADING

CORRECT



INCORRECT



Use as EN 354 lanyard:

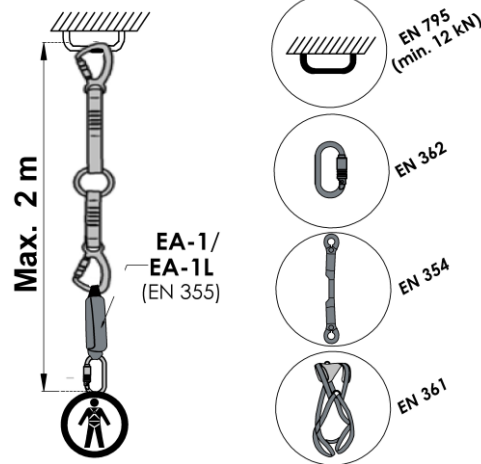
- These lanyards are intended to be used in **restraint systems**. This system will prevent the user to reach areas where risk of falling exists. The user will choose the length of the lanyard in such way that he or she cannot reach any area where a fall from height can occur! Warning! If risk of falling from height cannot be completely eliminated using a restraint system, an additional fall arrest system must be used! Warning! For a fall arrest system, suitable components must be used, including an EN 361:2002 full body harness! Check the instructions of every component used, before starting the work! If there are any doubts seek advice from the manufacturer or distributor!
- These lanyards can be used as shock absorbing lanyards (in **fall arrest systems**) if a suitable energy absorber (EN 355:2002) is added and the length of the assembly (lanyard + energy absorber + all connectors used) does NOT exceed 2m! Warning! For a fall arrest system, suitable components must be used, including an EN 361:2002 full body harness! Before starting the work make sure there is enough free space below the workplace! Check the instructions of every component used, before starting the work! If there are any doubts seek advice from the manufacturer or distributor!

WARNING!

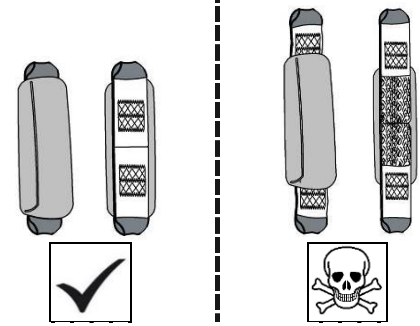
- Always keep the lanyard taut during use! Slack must be minimized near a fall hazard zone!
- These lanyards are NOT designed to be used choke hitched (e.g. making a girth hitch using the end loops / end connectors of your lanyard)!
- Make sure that the lanyard or connectors will NOT come in contact with sharp edges during use! Take all necessary precautions to avoid contact with sharp edges or any other factor that will damage your equipment! Seek advice from the manufacturer if there are any doubts!

USE WITH EN 355 ENERGY ABSORBER (FALL ARREST)

The length of the final assembly (including connectors) **must NOT exceed 2 m!** Use only certified components and read carefully the instructions of each component you intend to use, in order to validate their compatibility and learn about their limitations etc.! Make sure that there is enough free space below your work surface!



BEFORE USE



Check your energy absorber before using it!

Never use an absorber that has been damaged or it had deployed (was involved in a fall arrest)!

Use as EN 795 / B anchor device

To create an **anchor point** the anchor lanyard will be attached to a suitable structure. The structures used for anchoring have to meet the requirements of EN 795:2012, must have NO sharp edges and must be capable to withstand minimum 12 for full metallic anchors or 18 kN for all the others.

The next component of the fall arrest system which will attach to the anchor sling can be:

- Shock absorbing lanyard (EN 354:2010 and EN 355:2002)
- Guided type fall arrester including a flexible anchor line (EN353-2:2002)
- Retractable type fall arresters (EN 360:2002)
- Semi-static and Dynamic ropes of various systems for working at heights

WARNING! If the anchor device is used as a component of a fall arrest system, it is very important that the system includes an energy absorber which will dissipate the energy of the fall, keeping the arising forces below 6 kN.

WARNING! Do not use the product for lifting or handling materials! Personal Protective Equipment against Falls should never be used as lifting equipment!

WARNING! In use, the load applied to the anchor lanyard (max. 22 kN allowed) will be transmitted to the anchor structure. It is thus necessary to make sure that the structure has a proven load bearing capacity capable to withstand the load applied to the lanyard for all directions of loading.

WARNING! Before each use a visual inspection and functional test must be performed by the user!

Beware: damages can be inflicted without your knowledge (e.g. negligence of a coworker) and it is important that a visual check is performed before each use!

The equipment must be withdrawn from use if:

1. The marking/label is missing or is unreadable.
2. **DAMAGE has been identified (incisions, cuts, tearing, worn seams, discoloration, hardened or thinned areas, burns, melted areas, rust, plastic deformations) if any other abnormalities of the parts or structure have been found or if the product had suffered any changes compared to its original condition!**
3. Contact with paints or unknown chemicals had occurred (irreversible contaminations).
4. The equipment was involved in a fall arrest or had been subjected to heavy loading.
5. The integrity of the equipment is questionable and the inspection log is incomplete or missing.
6. The equipment was in service longer than **10 years**.

WARNING! The equipment must be immediately withdrawn from use if it was involved in an incident or was subjected to heavy loading! If there is any doubt regarding the condition of the equipment **DO NOT USE** it! Instead, send it to the manufacturer or to an authorized representative of the manufacturer for a professional evaluation!

RESCUE! A rescue plan must be made before starting the work at heights or depths! It is mandatory to set up and know the specific rescue plan for every situation and to have designated personnel and appropriate means of intervention!

The SERVICE LIFE * of PPE against falls, made of textile materials is 6-8 years under normal conditions, but a **maximum of 10 years** * from the date of first use. The date of the first use must be noted in the logbook, otherwise the date of manufacture is considered as the date of the first use. **The storage** of new, unused products under optimal conditions (darkness, dryness, original packaging, constant temperature, without chemical vapors, etc.) should not exceed **2 years**. * PPE that belongs to a single user, has not been used excessively and not often, has been subjected to regular checks by experts, has been found to be "safe" and recorded in the test book, has a complete product history, has not been involved in a fall, is carefully treated and cared for, have been stored in accordance with regulations, have not come into contact with oils, fats or aggressive chemicals, (attention - incomplete list) can remain in use for up to 10 years. Intensive use, heavy and demanding working conditions, incorrect application, incorrect maintenance and care can greatly reduce the service life of the equipment. Certain events, such as falls, high exposure to heat, exposure to corrosive chemicals, can limit the use of your equipment to a single time. A generally valid, binding statement about the duration of use of textile PPE cannot be made, as this depends on a large number of factors such as UV light exposure, working conditions, contact with various substances, etc. The service life of the equipment ends when one of the cases mentioned in the previous chapter occurs or when the inspector / certified expert decides this on the basis of other facts. The theoretical total service life of textile PPE against falls (Storage time + Service life) is limited to a maximum of 12 years from the date of manufacture.

STORAGE, MAINTENANCE, TRANSPORT: the equipment should be stored in a dry, cool and well-ventilated room, if possible, in its original packaging. While in storage, this PPEaF must be protected from UV radiation, solar radiation, heat, sparks, incandescent metal splash, electricity, chemicals, sharp objects, heat sources, dust, cement, oils and greases or any kind of contaminants. If necessary, the textile parts can be cleaned using warm water (30°C) then rinsed. Drying the wet equipment will be made by hanging it in well-ventilated room away from any heat source. When fully dried, the equipment can be stored accordingly in its packaging (bag or box). The use of disinfectants is forbidden, as long term effects of various types of disinfectants and concentrations are not known! Transport of the equipment must be made in its protective bag or box, away from any factor that could contaminate or inflict damage.

MARKING: VERTIQUAL® anchor lanyards are fitted with a label which contains the following elements and essential **information:** manufacturer (Vertiqual Engineering S.R.L.), name of the model and version (e.g. HELI 11), L = Maximum length of the lanyard (including connectors), L1 = length of the long arm (O ring to end connector), L2 = length of the short arm (O ring to end connector), manufacturing date (mm/yyyy), standards/norms the product complies to (EN 354:2010, EN 795:2012 / B, CEN/TS

16415:2013), breaking load for each of the lanyards arms (BL ≥ 22kN / 22kN), icon which indicates that the anchor lanyard can be used by maximum 2 persons simultaneously ("2 pers."), European CE marking with notified body number (CE 2756), international symbol for reading the instructions before use and the product's serial number (000000). The label must be always present and readable!

PERIODIC INSPECTIONS AND CHECKS: The user must perform a visual and functional inspection of his equipment before and after each use! During use, it is important to monitor your equipment in order to identify possible damages inflicted in use, without being aware of it. The equipment must be inspected **at least once every 12 months** or more often if required, depending on the working conditions and compulsory after every incident it has been involved in. Inspections can be carried out only by the manufacturer or by an authorized inspections center. **If the periodic inspections were not performed at least once every 12 months, were carried out by unqualified persons, or without strictly respecting the manufacturer's instructions, the warranty is lost and the manufacturer declines any responsibility related to the equipment!**

It is recommended to mark the anchor lanyard with the date of the next inspection!

Inspection Log: Every PPEaF is delivered with an Inspection Log. This document must be kept safely and sent along with the product for every inspection. The Log (table) contains important data regarding your equipment. The date, signature of the inspector and the results are also recorded. The **date of first use** must be written in the Inspection Log by the user!

Repairs or any other modifications can be performed only by the manufacturer! Any repairs, modifications or additions (even minor ones) performed by anyone else are strictly forbidden, lead to the loss of the manufacturers guarantee and any responsibility related to this product!

WARRANTY AND LIABILITY! The manufacturer offers a **24 month** warranty for this PPEaF from the date of first use. The user has the obligation to write the **date of first use** in the Inspection Log. If the date of first use was not filled in, the warranty period will be calculated from the manufacturing date. The warranty is applicable **only** for material or manufacturing defects! Damage resulting from normal wear and tear, corrosion, poor maintenance (or no maintenance at all), those resulted from carelessness, accidents, fall arrest, unauthorized repairs or modifications, wrong use of this PPEaF or any other reasons are **NOT** covered by the warranty!

Warranty claims only apply to the product. All claims by the user or any other party for the direct, indirect or any consequential damages resulting from the use of this PPEaF are excluded from guarantee and liability assumptions. Any claims in this regard are hereby expressly rejected.

The user must be informed regarding the dangers of work at heights and depths. He should be aware of the risks and he has to be aware that he is the only responsible for eventual damage, accidents or even death which may result from the use of this equipment. If the user is unable to do so or if he does not have the competence to do so, he cannot use this PPEaF. VERTIQUAL Engineering SRL herewith rejects any liability claims for direct, indirect, accidental or consequential damages resulting from the use of this PPEaF (Personal Protective Equipment against Fall).

This product complies with the **European PPE Regulation (EU) 2016/425** and the following harmonized standards: **EN 354:2010** and **EN 795:2012 / B**. Additionally the product was tested according **CEN/TS 16415:2013**. Conformity assessment was carried out by **NB 1019** (VVUU, a.s. Adress: Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic) and production control by **NB 2756** (INCDPM: Adress, 35 A, Ghencea Blv, Sector 6, Postal code: 061 692, Bucharest).

The **EU Declaration of Conformity** can be downloaded from our website www.vertiqualsafety.com by accessing the product's dedicated section

INSPECTION LOG			
Product:			
Owner / Company:			
Serial/Batch No:	Date of purchase:	User:	Date of first use:
Inspection date	Results of the inspection		Signature of the inspector