

# Instruction manual for Self Retractable Lifeline KINETIX certified according to EN 360



EN 360:2002  
CE 2756

## KINETIX

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](http://www.vertiqualsafety.com) by accessing the section of each product. For help or additional questions, please contact us at [office@vertiqualsafety.com](mailto:office@vertiqualsafety.com) or Tel. (+40) 0365/882143.

### FIELD OF USE

Along with other tested and certified components the **KINETIX** Self-Retractable Lifelines (SRLs) are used in fall arrest systems. The purpose of these 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 SRL will be used in vertical applications only as a connection element between an EN 361 full body harness and an anchor structure / anchor point which meets the requirements of EN 795. In case of fall, its energy absorber will deploy and dissipate the energy efficiently, keeping the arising forces below 6 kN. 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, hot metal splash, dust, cement or any other fine powders. Avoid contact with sharp edges, abrasive surfaces, 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 a load of minimum 12 kN. 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 dangerous swing falls. 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.

### DESCRIPTION

KINETIX is a Self Retractable Lifeline including a high tensile 45mm retractable webbing. In case of fall, the fall arrest block provides almost instant locking, thus minimising the fall distance. KINETIX is comprised of the following elements: top connector, fall arrest block, retractable webbing, energy absorber, end connector. It is meant to be used mostly for stationary works/applications, where the user is protected until he arrives at his workplace, and then, by connecting the SRL accordingly, the user can carry out his work, being protected against falls. In the event of a fall, impressive forces occur depending on the falling distance and weight of the falling person! The energy absorber is reducing the forces generated below 6kN. A major part of the generated kinetic energy will be dissipated by the special tear-up webbing of the energy absorber, thus keeping the force to a tolerable level. Vertiqua® Self-Retractable Lifelines are manufactured using high tensile PES webbings, steel / aluminium connectors and various components of aluminium, plastics and galvanised steel.

## COMPONENTS

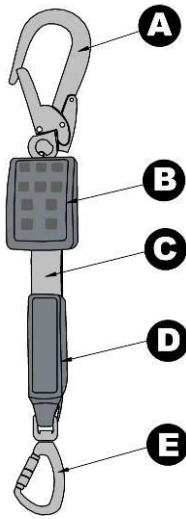
**A – top connector**  
(for attaching to an anchor point)

**B – fall arrest block**

**C – retractable webbing**

**D – energy absorber**  
(*shock pack*)

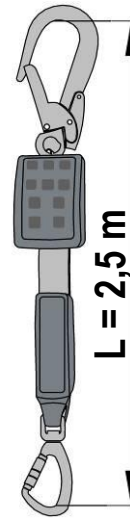
**E – end connector**  
(for attaching to the full body harness)



## LENGTH

L - maximum length  
(webbing fully extended);

**WARNING!** It is strictly forbidden to add additional elements to your SRL in order to extend its length! (by connecting additional ropes, lanyards, slings etc.)

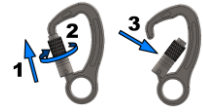


## CONNECTORS (OPEN / CLOSE)

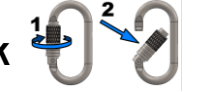
**Auto-Lock**



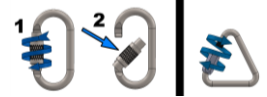
**Tri-Lock**



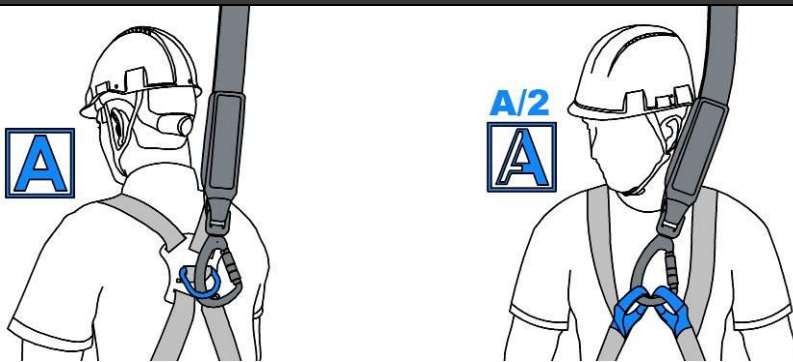
**Twist-Lock**



**Screw**

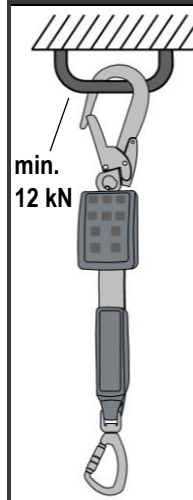


## CONNECTING TO THE HARNESS



Attach and secure the connector at absorber's end of your SRL to an attachment point of your harness that is marked with "A" or „A/2". These are the only points approved for fall arrest! The points are usually metal rings or textile loops and in case of A/2 marking, the two points need to be connected together!  
(!) **Use only certified full body harnesses (EN 361)!**  
(!) **Refer to your full body harness manual for complete attachment instructions!**

## ANCHOR POINTS



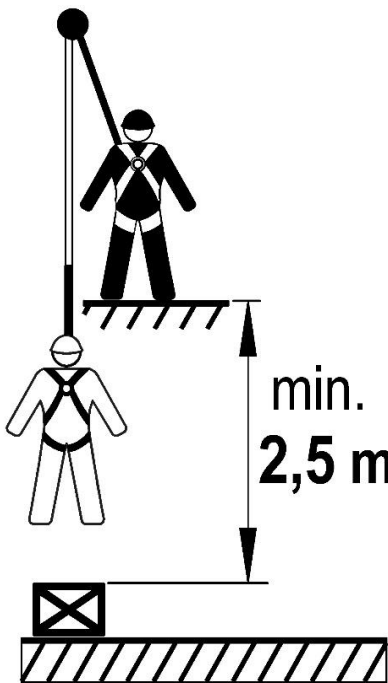
The anchor points used must meet (or exceed) the requirements of EN 795!

If a structural anchor point is used (e.g. beam, pipe) make sure that:

- has a proved breaking strength of minimum 12 kN;
- has closed ends which do NOT allow the connector to slide out;
- has NO sharp edges;
- its shape and size cannot cause incorrect loading of the connector or can put pressure on the connector's gate;

Below some examples of **correct / incorrect** use of connectors and Self-Retractable Lifelines are presented. 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 (carabiners, lanyards, etc.) and read/follow their instructions carefully!

## FALL CLEARANCE



The **fall clearance** or the minimum free space below the work surface is the distance from the surface the user walks on, to the nearest obstacle.

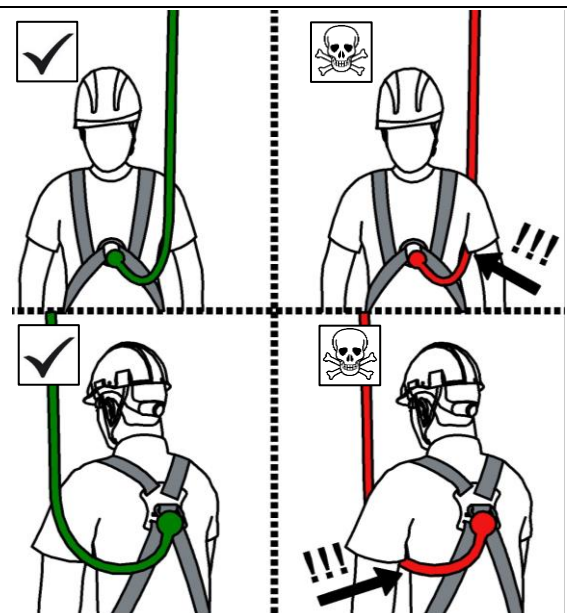
Make sure that there is enough clearance below your work surface, before starting the work and maintain it during use!

**WARNING!** For your safety ensure a fall clearance of **minimum of 2,5 m!** The retractable device must be connected to a suitable anchor point located **above user's head**. During use an angle of **max. 40°** with the vertical axis of the device must not be exceeded!



## WARNING !

Connect and use your SRL making sure that the retractable webbing is NEVER passed under your arm(s). Failure to do so can result in serious or even fatal accidents!





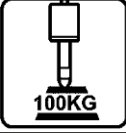





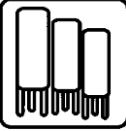



**Repairs** or any other modifications can be performed only by the manufacturer! Any repairs, modifications or additions (even minor ones) performed by anyone else are strictly forbidden, lead to the loss of the manufacturers guarantee and any responsibility related to this product!

**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!**

**MARKING:** All VERTIQUAL® SRLs are fitted with a label which can be accessed by opening the absorber's cover. The label contains the following elements and essential information: name of the model [KINETIX], PPE type, length [m], the allowed user weight [kg], product's serial number, manufacturing date (month and year), standards/norms the product complies to (EN 360), European CE marking with notified body number, international symbol for reading the instructions before use and the name of the manufacturer. In this case the label also includes graphic warnings (symbols). Check "**explanation of symbols**" section for more details. Note: The label must be always present and readable!

## EXPLANATION OF SYMBOLS

	<b>Perform a <u>visual inspection</u> of your equipment before each use!</b> <i>It is essential to identify eventual damage of your equipment. Note: damage can sometimes be inflicted without user being aware of it. (*see „CHECK BEFORE EACH USE” section for more details)</i>		<b>Read the instructions manual before using the product!</b>
	<b>The allowed weight of the <u>fully equipped user</u> is <b>MAXIMUM 100 kg!</b></b> <i>Never push your equipment beyond its limits!</i>		<b>Use this equipment only in <u>vertical applications</u>, making sure that, at all times, the angle of the webbing with the vertical axis of the anchor point does not exceed 40°</b>
	<b>Perform a <u>function test</u> of your equipment before each use!</b> <i>Test each retractable device by quickly pulling the webbing out to make sure it locks properly and can arrest your fall! In addition, check all connectors to make sure they are closing and locking properly! (*see „CHECK BEFORE EACH USE” section for more details)</i>		<b>Release the webbing slowly!</b>
	<b>Use your equipment in usual environments, with temperatures between -30 and +50 °C!</b>		<b>Always store your equipment in proper conditions!</b> <i>Store in a dry, cool and well-ventilated room, if possible, in its original packaging, away from any factors that can damage your equipment! (*check STORAGE, MAINTENANCE, TRANSPORT for details)</i>
	<b>Do NOT use in silos!</b>		<b>Do NOT tamper with your equipment!</b> <i>It is strictly forbidden to perform repairs, modifications or additions to your equipment! These can be performed only by the manufacturer!</i>

**SERVICE LIFE:** The service life, under normal conditions, is **4-6 years** from the date of the first use. **The user must write the date of first use in the inspection log!** The storage of new, unused products, under optimal conditions (dark, cool, dry, clean, no chemical vapors or gases, kept in original packing) should not exceed 2 years. If the storage time has exceeded 2 years, the extra time spent will be subtracted from the service life. Intensive use, heavy and stressful working conditions, improper application and faulty maintenance can reduce or even end the service life of the equipment. Some events, such as exposure to severe heat, exposure to corrosive chemicals and use over sharp edges can shorten the service life to a single use! The service life will be ended if any of the facts presented in the previous chapter has been identified.

**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). Transport of the equipment must be made in its protective bag or box, away from any factor that could contaminate or inflict damage.

**Inspection Log:** Every PPEaF is delivered with an Inspection Log. This 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!**

**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! The warranty does NOT cover the springs of the carabiners as these can be damaged due to inadequate storage or improper use. 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).

The **CE / EU type examination** was carried out by: INCDPM (The National Research and Development Institute for Occupational Safety-Bucharest). European notified body: NB 2756. The **CE / EU Declaration of Conformity** can be downloaded from our website [www.vertiqualsafety.com](http://www.vertiqualsafety.com) by accessing the product's dedicated section.

**Manufacturer:** Vertiqual Engineering S.R.L.  
RO-547367 Corunca DN1-E60 Nr. 397G  
[www.vertiqualsafety.com](http://www.vertiqualsafety.com)

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