

USER INSTRUCTION MANUAL



RETRACTABLE FALL ARRESTERS

THIS INSTRUCTION MANUAL
APPLIES TO THE FOLLOWING MODELS:

CRHV7, CRHV10, CRHV15

CE 0598

EN 360:2002,
VG11 RFU # 11.060

Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

Note: The user is advised to keep this user instructions document for the life of the product.

Manufacturer	:	SAFETY-LIFTING, Unit RID Rockingham Gate, Poplar Way West Cabot Park, Bristol, BS11 0YW, United Kingdom
Certification Body	:	SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)
Ongoing Assessment Body	:	SGS Fimko Oy, P.O. Box 30 (Särkiniementie 3), 00211 HELSINKI, Finland (Notified Body 0598)

The Retractable Fall Arrester for horizontal usage is classed as a Personal Protective Equipment (PPE) by the European PPE Regulation (EU) 2016/425 and has been shown to comply with this Regulation through the Harmonized European Standard EN 360:2002 & VG11 RFU # 11.060

This Retractable Fall Arrester for horizontal usage is designed to minimise the risk of/provide protection against the danger of falling from heights. **However, always remember that no item of PPE can provide full protection and care must always be taken while carrying out the risk related activity.**

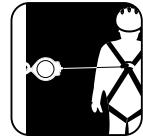
1. PERFORMANCE AND LIMITATIONS OF USE:

The equipment has been tested in accordance with EN 360:2002 & as per VG11 RFU # 11.060 and has achieved the following performance levels:

EN 360:2002 test	Result/Comment
Clause 4.1 Design & Ergonomics	Achieves required performance as stated in EN 360:2002 (PASS). Lanyard free from sharp or excessively abrasive surface (PASS). No unnecessary features which add significantly to overall mass (Pass).
Clause 4.2 Materials & Construction	Lanyard end terminated with a loop, for connection to harness and fall arrest system (PASS). Lanyard meets static strength requirement (PASS).
Clause 4.3 Locking after Conditioning (EN 364:1993)	After conditioning, it locks & remains locked until released with 5 kg Max. (PASS)
Clause 4.4 Static Strength (EN 364:1993)	12kN sustained for 3 minutes without release (Wire) (PASS). 15kN sustained for 3 minutes without release (Webbing) (PASS).
Clause 4.5 Dynamic Performance (EN 364:1993)	When tested with the test mass of 140 kg, The Arrest force <6.00 kN, Arrest distance <2.00 m (PASS).
Clause 4.7 Corrosion Resistance (EN 364:1993)	Corrosion test in accordance with ISO 9227:1990-24 hours (PASS).
AS PER VG11 RFU # 11.060	Result/Comment
1. Dynamic Performance :	140 Kg mass held
a. Perpendicular to the edge	Breaking force ≤ 6kN
b. Lateral offset of 1.5 mtr	Breaking distance less than 2 mtr
2. Dynamic Strength	140 Kg mass held
a. Perpendicular to the edge	
b. Lateral offset of 1.5 mtr	
3. Static Strength after each Dynamic Strength test	f=3kN (Cable) 4.5 kN (Textile) 3 mits

2. **POSSIBLE USAGE** :This Retractable Fall Arrester can be used as a part of a fall arrest system or as a part of a restraint system. If using as a part of fall arrest system, a suitable anchor point (above the user's head, at least 12kN) shall be used. Attachments to the anchor points and other equipment shall be made using oval Karabiners to EN362. The equipment is to be used specifically in vertical as well as horizontal condition.

- **Material of the Lanyard-**
for wire rope block - 4.8mm Galvanized steel wire.



* This Block can also be used in horizontal direction.

3. HOW TO USE

Follow Step 1 to Step 2 to use this equipment.

- Step 1 :** Connect the anchorage eye of Retractable Block to a suitable anchorage point situated either above the user's head or in horizontal direction using karabiners (EN 362) & Ensure karabiner is locked.
- Step 2:** Now Connect the hook at attachment end of Retractable to the dorsal attachment of your full body harness. User is now safe to move in normal speed.
- In the event of a fall, Retractable block locks and also minimizes the impact forces on the body of user, both in vertical and horizontal direction.

4. WARNING :

- Ensure the medical condition of the user does not affect his safety in normal and emergency use.
- The Retractable Fall Arrester shall only be used by a person trained and competent in its safe use.
- A rescue plan shall be in place to deal with any emergencies that could arise during the work.
- Do not make any alterations or additions to the Retractable Fall Arrester without the manufacturer's prior written consent and that any repair shall only be carried out by personnel trained by the manufacturer & duly authorized by him.
- The Retractable Fall Arrester shall not be used out side its limitation, or for any purpose other than that for which it is intended.

5. ADVICE & INFORMATION :

- The Retractable Fall Arrester should be the personnel property of the user.
- Ensure that the Retractable Fall Arrester is compatible with other items when assembled into a system.
- Usage with other un-compatible items may be dangerous & hazardous as the safe function of one item may be affected or interferes with the safe function of another.
- The user should carry out a pre-use check of the Retractable Fall Arrester, to ensure that it is in a serviceable condition and operates correctly before it is used.
- The pre-use check shall involve checking of any wear or abrasion on wire ropes/webbing and sign of corrosion if any on metal parts or any breakage of the casing.
- Withdraw from use immediately if there is any doubt about its safe condition or if it has already arrested a fall, the equipment shall not be used again until confirmed in writing by a competent person that it is acceptable to do so.
- Ensure that the strength of the anchor device is greater than 12kN.
- Use karabiner conforming to EN 362 for connecting to the anchor points.
- It is advisable to use the dorsal attachment D-Ring of the harness for connection to the Retractable Fall Arrester.
- However if it is not possible for any reason, the chest attachment element may also be used.
- It is essential to verify that a minimum 4ms height of free space is available below the user's feet & the ground level at the work place, so that in case of a fall, there will be no collision with the ground or other obstacle in the fall path.
- Following conditions may be hazardous & may affect the performance of Retractable Fall Arrester:-
 - Extreme temperature
 - Trailing or looping of Lanyards over sharp edges.
 - Extreme acidic or basic environments.
 - Abrasive or sharp edge structures which can damage the equipment.
 - Pendulum falls.

- Ensure that manufacturer's packing is used during transportation to prevent damage. In case original packing is not available, use polybag which is sealed to prevent moisture.
- It is essential for the safety of the user that if the product is resold outside the original country of destination, the reseller shall provide instruction for use, for maintenance, for periodic examination and for repair in the language of the country in which product is to be used.
- This is advised that Annual inspection should be done by competent person & if any discrepancy is found in product, service will be done at authorized service center only.

I. Additional information as per VG 11

- a. It is possible to use a horizontal retractable type fall arrester over an edge type A
- b. It is recommended to avoid the loading of the retractable type fall arrester over edges.

II. Additional information as per VG 11

a. The retractable type fall arrester was also tested also for horizontal use and a drop over a Type A edge has been successfully tested.

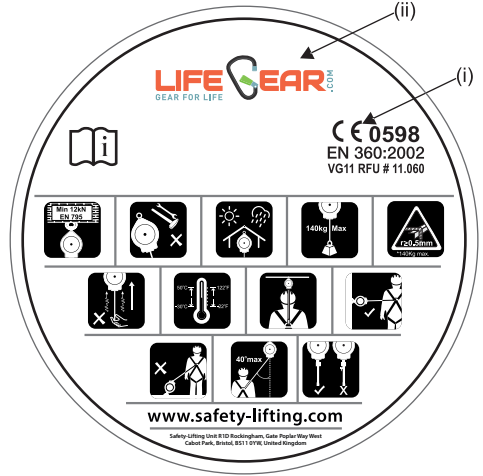
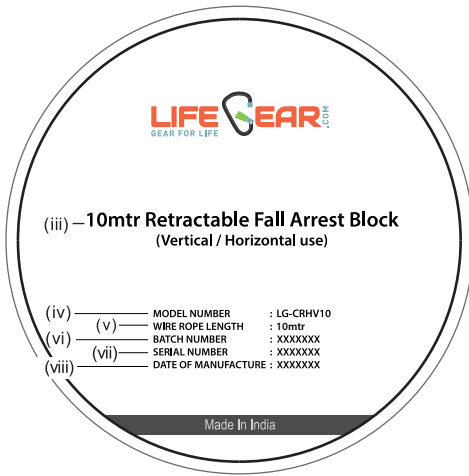
Type A edge definition: A steel edge with a radius of $r = 0.5$ mm and without burrs was used for the test. Due to this test, the equipment may be used over similar edges, as can be found e.g. at rolled steel profiles, at wooden beams or at a clad, rounded roof parapet. However, the following shall be considered when the equipment is used in a horizontal or transverse arrangement and a risk of a fall from a height over an edge exists:

1. If the risk assessment carried out before the start of the work shows that the edge is very "cutting" and / or "free of burrs" (such as in case of an unclad roof parapet, a rusty steel girder or a concrete edge)
 - relevant measures shall be taken before the start of the work to prevent a drop over the edge or, before the start of work, an edge protection shall be mounted or
 - the manufacturer shall be contacted.
2. The anchor point should only be situated at the same height as the edge at which a fall might occur or above the edge.
3. Allow adequate clearance of minimum 4 meters below, in order to avoid collision with the adjacent structures or the ground in the event of a fall.
4. To attenuate a drop ending in a pendulum movement, the working area or lateral movements to both sides of the centre axis shall be limited to a maximum of 1.50 m. In other cases, no individual anchor points, but, eg., type C or type D anchor devices in accordance with EN 795:2012 shall be used.
 - a. The Retractable Fall Arrester Block can also be used with Type C anchor device.
 - b. The deflection of the anchor device shall be taken into account when determining the clearance required below the feet of the user. To that effect, the indications specified in the instructions for use of the anchor device shall be considered.
 - c. Care must be taken to avoid collision with any obstruction in the event of a fall.
 - d. It is advised that, for the event of a fall over the edge, special pre-planned rescue measures must be taken under the guidance of a well-trained and competent personnel.

5. INSTRUCTION FOR MAINTENANCE :

- In case of minor soiling, wipe the equipment with cotton cloth or soft brush. Do not use any abrasive material. For intensive cleaning wash in water at a temperature between 25°C to 50°C using a neutral detergent. It should be allowed to dry by itself and be kept away from open fire or any other source of heat, Avoid direct sunlight.
- Store in cool dry place, preferably away from moisture, direct sunlight, extra acidic or basic conditions & sharp edges.

Label



MARKING EXPLANATION

Retractable Fall Arrester is marked with :

- (i) The 'CE' mark showing that the product meets the requirements of the PPE Regulation (EU)2016/425
- (ii) Identification of the manufacturer
- (iii) Type of product
- (iv) Product Ref. No.
- (v) Wire Rope Length
- (vi) Batch Number
- (vii) Serial Number
- (viii) Month & Year of Manufacture

ICON EXPLANATION



Ensure that the anchorage point has strength of min 12kN.



Do not attempt repair unless trained by the manufacturer.



Keep away from sunlight or heavy rains.



To be used by person weighing upto than 140 kgs.



It can be used on the sharp edges having radius $\geq 0.5\text{mm}$



Once the wire rope has been reeled out, do not leave it suddenly to retract inside on its own, let it go inside gradually by guiding it slowly inside.



Use between temperature range of -30°C to $+50^{\circ}\text{C}$.



Ensure that the max angle between the vertical & the lanyard is 40° .



Connect the lanyard to the Dorsal attachment element of your harness.



Can be used for horizontal applications.



Do not use this block at foot level application.



Ensure that wire rope has no cuts or abrasion marks before use.

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