



USER INSTRUCTION MANUAL
VENTRAL ROPE CLAMP

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODELS:

AFX204101

CE 0598
EN567:2013 and
EN12841:2006 TYPE B

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.

- 1. INTRODUCTION:** The Ascender is classed as 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 567:2013.

This Ascender is designed to minimize 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.

- 2. TECHNICAL SPECIFICATION:**

Ref.	Material	Weight	Works on	Finish	Certified to
AFX204101	Aluminium Alloy	185.0gms	10.0mm to 12.0mm dia Kernmantle Rope	Coloured, Anodized	EN 567:2013 & EN 12841:2006 TYPE B

- 3. PERFORMANCE AND LIMITATIONS OF USE:** This Ascender has been tested in accordance with EN 567:2013 and has achieved the following performance levels as laid down in the norm.

EN 567:2013 test	Result/Comment
Design & Ergonomics (Clause 4.1)	Achieves required performance as stated in EN 567:2013 (Pass) Lock onto rope and accessory cord of diameter between 10 mm & 12 mm(Pass) Ascenders lock automatically when tension is applied in the 'downward' direction. Rope allowed to slip freely when force is applied to the rope clamp in the upward direction (Pass) No visual evidence of significant damage to ropes or cords following strength testing (Pass) Minimum width of handle opening=32 mm (Pass)
Static Strength (EN 567:2013)	Testing using 10 mm rope: Reference AFX204101 subjected to 4kN applied 5 times in succession without visual evidence of damage to device or rope. Testing using 12 mm rope: Reference AFX204101 subjected to 4kN applied 5 times in succession without visual evidence of damage to device or rope.
Pushing Test	Maximum rope diameter: 12mm No damage occurred to rope or rope clamp after 400N force is applied. Minimum rope diameter : 10mm No damage occurred to rope or rope clamp after 400N force is applied.
Pulling Test	Maximum rope diameter : 12mm No damage occurred to rope on rope clamp after 2000N force is applied. Minimum rope diameter : 10mm No damage occurred to rope or rope clamp after 2000N force is applied

- 4. PURPOSE (EN 12841:2006):-** Allow workers to access difficult-to-reach locations without the use of scaffolding, cradles or an aerial work platform. Rope access technicians descend and traverse ropes for access and work while suspended by their harness. The support of the rope is intended to eliminate the likelihood of a fall.
- 5. APPLICATION (EN12841:2006):-** Applications for modern rope access include inspection, surveying, maintenance, and construction on bridges, dams, wind turbines, towers, buildings, and industrial plants. While inspection is the most common application, painting, welding, cutting and heavy material handling can be accomplished by rope access professionals using specialized procedures. It may also be used for rescue of victim post fall arrest when used with a system.

6. INSPECTION : Visually inspect the system before each use to ensure that it is in a serviceable condition and is operating correctly. If during inspection, doubts are raised about the safety of the system or a component, these should be replaced either by the manufacturer or a competent person.

7. PRECAUTIONS:

- Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
- The equipment 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.
- It is essential to verify the free space required beneath the user at work place before each occasion of use so that in case of a fall there will be no collision with ground or other obstacle in the fall path.

8. HOW TO USE:

• **AFX204101**

The ventral rope clamp is designed for rope access. This user instruction will not teach you the techniques for using this equipment; the use of this equipment is therefore reserved for expert users. So it is essential to be trained in these techniques before the use.

Whatever the technique of using the ventral rope clamp, check during the use the good position of the connector in the hole for ventral attachment on the harness (B), the pulling forces must be applied to the connector only along the large axis.

A: Hole for chest strap attachment on the harness

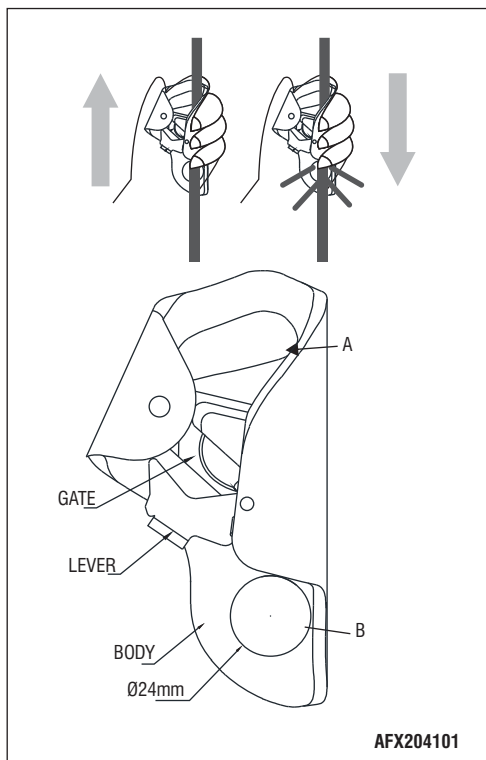
B: Hole for ventral attachment on the harness

NOTE: Only The Correct Use Modes Described In This Guide Are Allowed.

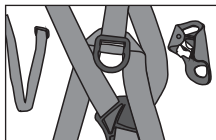
- **Installing On The Rope:** Please always respect the position Up/Down indicated on the product.

Pull the safety catch (2) down with your thumb and lock it on the frame (1) of the device, this action pulls the cam (3) out of the slot (4). Then put the rope into the slot (4), and replace the cam and the safety catch by pushing the safety catch. Do the same to remove the rope from the ventral rope clamp.

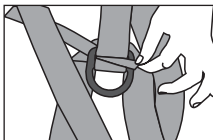
After installing the device, make a blocking attempt (down) and check the sliding up (direction of use) of the ventral rope clamp. Use semi static ropes EN1891 Type A - diam. 10 to 12 mm.



• **Fitting of Ventral Rope Clamp with Croll Strap in Harness.**



Place the croll strap, Harness and rope clamp at one place, as indicated in the image.



Insert the free end of the croll strap through the pass-thru space for webbings, present in the Sternal D-Ring of the harness.



Pass the same end of the croll strap through the broad pass-thru gap in the rope clamp.



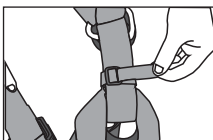
Reverse pass the same end of the croll strap again through the webbing pass-thru space in the Sternal D-Ring.



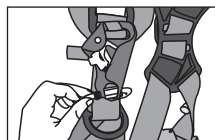
Flip the rope clamp up and single wrap the croll strap around the harness webbing to opposite sides using both its ends.



Flip the harness webbing and hold both the ends of the croll strap as indicated in the image.



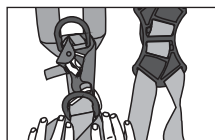
Pass the free end of the croll strap through its buckle and pull to tighten the strap.



Now, open the Karabiner present around the ventral D-Ring of the harness and pass it through the narrow pass-thru gap on the lower end of the rope clamp.



Close the Karabiner.



The Harness with rope clamp is ready to use.

9. ANCHORAGE STRENGTH: Ensure that the structure on to which the anchor is fitted is strong enough to withstand a minimum load of 12kN.

10. LIMITATIONS:

- It should be the personal property of its user.
- It should not be used in highly acid or basic environments.
- This equipment shall not be used out side its limitation, or for any purpose other than that for which it is intended.
- The ascender has been tested to EN 567:2013 and is appropriate only for single person use with an energy absorber as per EN 355:2002.
- Ensure that the equipment is compatible with other items when assembled into a system.
- It is essential for the safety of 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.
- Do not exceed the limits of this equipment!. KStrong cannot be held liable for any accident, whether direct or indirect, resulting from a usage other than that provided for in this guide.

11. **COMPATIBILITY:** To optimize protection, in some instance it may be necessary to use the clamp with suitable PPE such as: boots/ gloves/ helmet and ear protection. In this case, before carrying out the risk-related activity, consult your supplier to ensure that all your protective products are compatible and suitable for your application.
12. **REPAIR:** If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore should be immediately removed from service. It needs to be inspected to see if it is replaced or repaired. Never use the damaged product. Repair is only permitted by the manufacturer or a nominated repair centre or individual approved by the manufacturer
13. **WITHDRAWAL FROM USE :** If the system has been used to arrest a fall, it should be removed from service and returned to the manufacturer or a competent repair centre for servicing and retest.
14. **CLEANING & MAINTENANCE:** In case of minor soiling, wipe the clamp with cotton cloth or a soft brush. Do not use any abrasive material. For intensive cleaning wash the clamp in water at a temperature between 30°C to 60°C by using a neutral detergent (pH 7). The washing temperature should not exceed 60°C. Do not use acidic or basic detergents.
15. **STORAGE AND TRANSPORT:** When not in use, store the clamp in a well-ventilated area away from heavily acidic or basic environment. Never place heavy items on top of it. Also ensure that it is stored away from chemically hazardous environment. Preferably storage should be in dry environment.
16. **WARNING:**
 - Do not make any alterations or additions to the equipment 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 equipment shall not be used out side its limitation, or for any purpose other than that for which it is intended.
 - An inappropriate use can cause serious and even fatal accidents.
 - Regular periodic examinations must be carried out at a frequency of 12 months. And the Periodic examinations are to be carried out by a trained and competent person and strictly in accordance with the manufacturer's procedure.
 - The Safety of the user depends upon continued efficiency and durability of the equipment.

MARKING	
	K^{STRONG} AFX204101
iii FOR ROPE : Ø10 ~ 12MM	i  viii
iv CE 0598	 Rated Load 140kg
v EN 567:2013 & EN 12841:2006 TYPE B	vi EN 1891, TYPE A
x KStrong Australia Pty Ltd Unit 4-5 20 Lathe Place, Unanderra, New South Wales, Australia 2526	ix MM/YY xi UID: XXXXXXXXXXXX
The Product is marked with: (i) Identification of the manufacturer. (ii) Type or product code. (iii) Rope Dia. (iv) The CE mark showing that the product meets the requirements of the PPE Regulation (EU) 2016/4 (v) EN Norms to which it complies. (vi) Rope rope should be complies with EN Norm (vii) Month & Year of manufacturing. (viii) Read the instructions before use (ix) Rated load (x) Manufacturing Address (xi) UID For Traceability	

LIFESPAN: The estimated product Lifespan is 10 years from the date of manufacture. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

DISCLAIMER: Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

EQUIPMENT RECORD				
Product				
Model & type/Identification		Trade Name		Identification number
Manufacturer		Address		Tel, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (eg. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

Certification Body:

SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

Ongoing Assessment Body:

SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland (Notified Body 0598)

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



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