

ASCENT PRO AIR ASCENT AIR TOP

EN Rescue harness
IT Imbracatura da soccorso
FR Harnais de secours
DE Rettungsgurt
ES Arnés para rescate
CZ Záchranářský postroj



MADE IN EUROPE
EN 12277-C
EN 361

89/686/CEE -
Personal Protective Equipment against falls from a height.



IST52-7H151CT1_rev.4 07-18

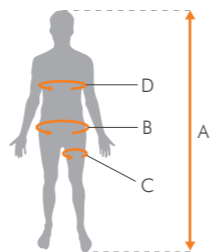


by Aludesign S.p.A. via Torchio 22
I 24034 Cisanò B.sco BG ITALY
Central tel: +39 035 78 35 95
Central fax: +39 035 78 23 39
www.climbingtechnology.com

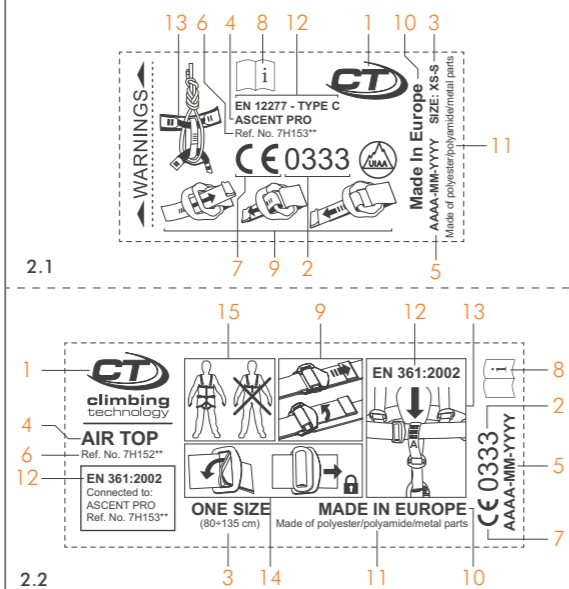
1 MODELS / SIZE CHART

MODEL	ASCENT PRO			AIR ASCENT			AIR TOP		
	REF No.	7H153AB	7H153CD	7H153DE	7H151AB	7H151CD	7H151DE	7H152AB	7H152CE
SIZE		XS-S	M-L	L-XL	XS-S	M-L	L-XL	XS-S	M-XL
HEIGHT (A)		-	-	-	160÷175 cm	170÷185 cm	180÷195 cm	160÷170 cm	170÷195 cm
WAIST BELT (B)		65÷75 cm	75÷90 cm	85÷100 cm	65÷75 cm	75÷90 cm	85÷100 cm	-	-
LEG LOOPS (C)		50÷60 cm	55÷65 cm	60÷70 cm	50÷60 cm	55÷65 cm	60÷70 cm	-	-
CHEST (D)		-	-	-	-	-	-	80÷135 cm	-
WEIGHT		410 g	430 g	450 g	935 g	955 g	975 g	495 g	525 g
STANDARDS		EN 12277:2015-C			EN 361:2002 EN 12277:2015-C			EN 361:2002*	
CE		CE 0333 - UIAA			CE 0333			CE 0333	

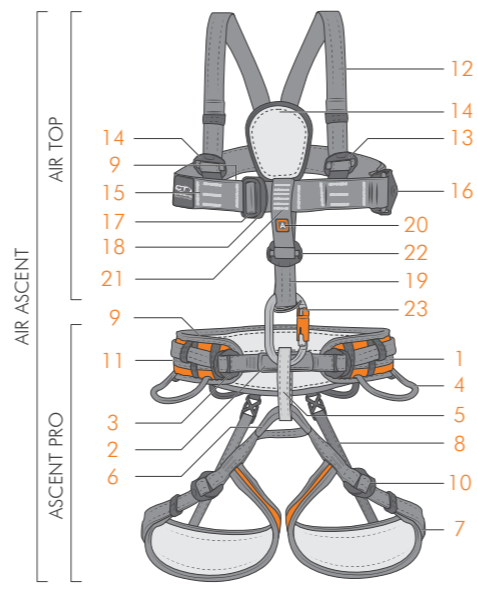
*in combination with Ascent Pro



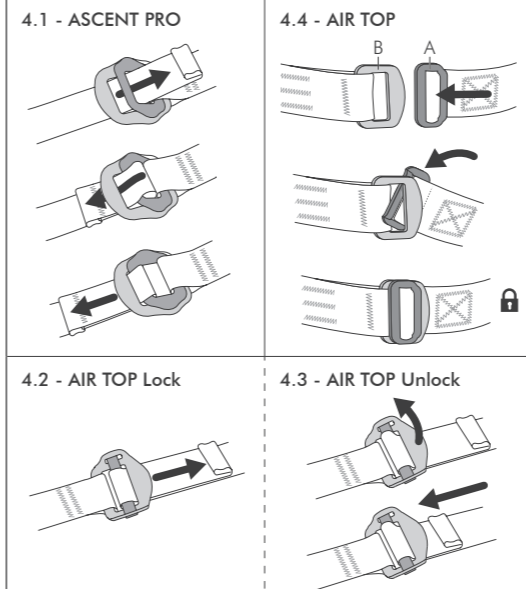
2 MARKING



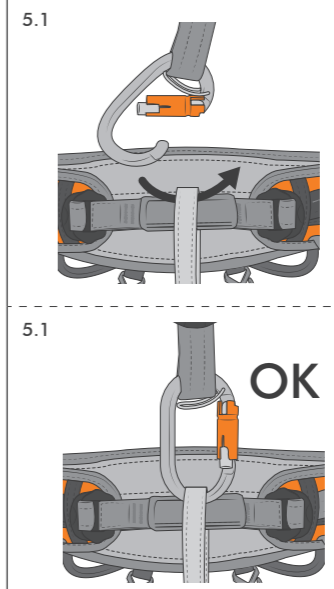
3 NOMENCLATURE OF PARTS



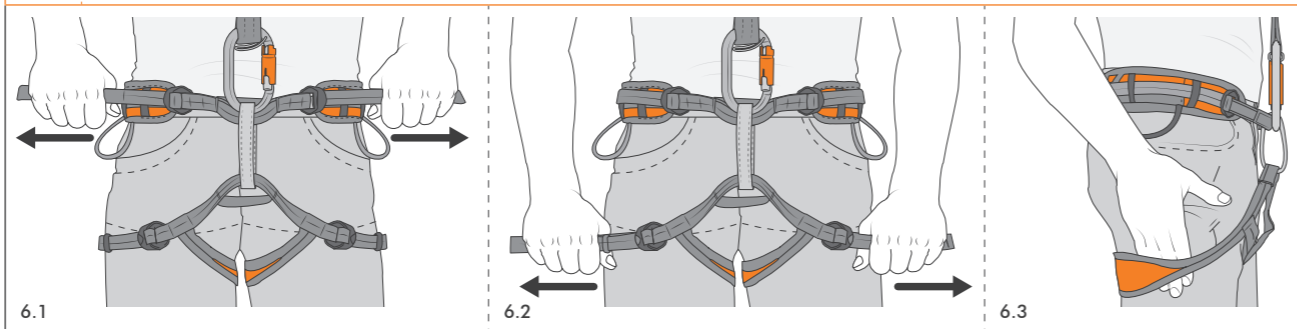
4 ADJUSTMENT / CLOSURE BUCKLES



5 ASSEMBLING ASCENT PRO WITH AIR TOP



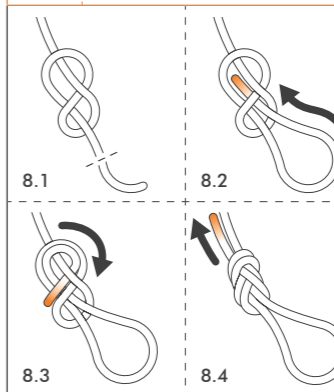
6 ASCENT PRO / AIR ASCENT - ADJUSTMENT OF THE HARNESS AND THE LEG LOOPS



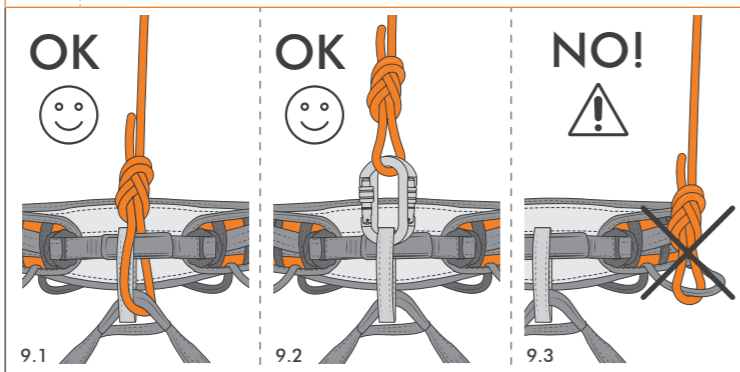
7 CORRECT POSITIONING OF THE HARNESS



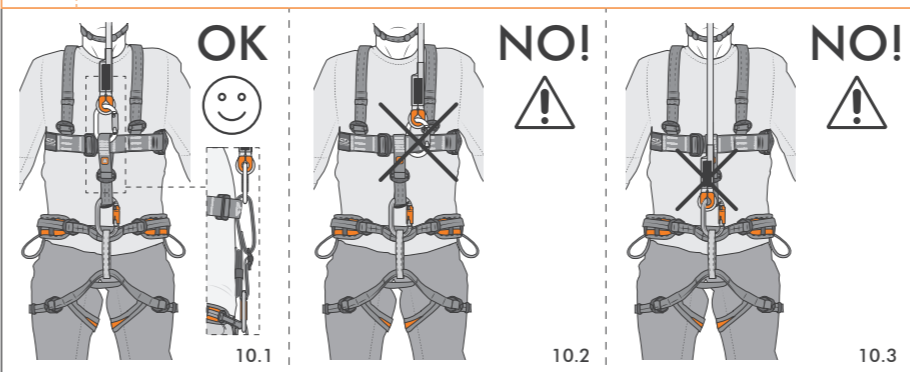
8 FIGURE OF HEIGHT



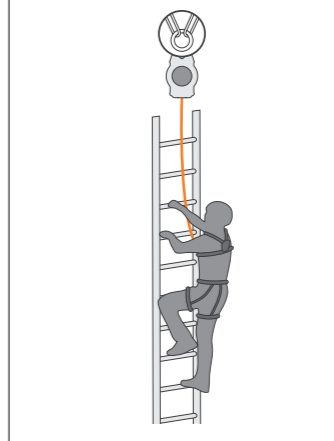
9 EN 12277 - CONNECTING MODES



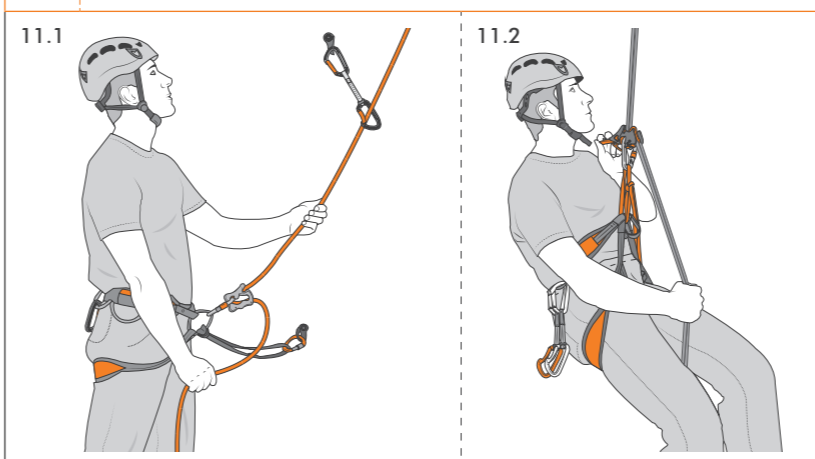
10 EN 361 - CONNECTING MODES



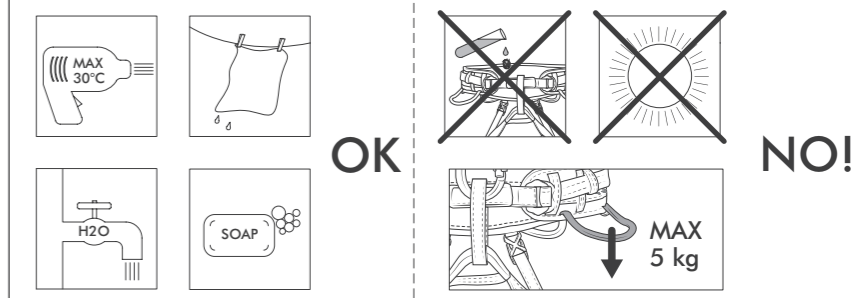
12 EN 361 - EXAMPLE OF USE



11 EN 12277 - TECHNIQUES



13 WARNINGS



ENGLISH

The instruction manual for this device consists of general and specific instructions, both must be carefully read and understood before use. **Attention!** This leaflet shows the specific instruction only. **SPECIFIC INSTRUCTIONS FOR THE AIR ASCENT / AIR TOP / ASCENT PRO.** This note contains the necessary information for the correct use of the Ascent Pro harness, the Air Top shoulder harness and the Air Ascent full body harness. The Air Ascent model is the combination of the Air Top and Ascent Pro models. Harnesses are Personal Protective Equipment (PPE), intended to be included in a fall protection system as, for example, connectors and ropes. **Attention!** The use of this device is reserved only for qualified operators properly trained or for persons that are placed under the direct supervision of skilled and trained operators.

0) FIELD OF APPLICATION. EN12277 - Mountaineering equipment: harnesses. The norm applies to the complete harness (type A), to the small size harness (type B), to the full harness (type C), and to the chest harnesses (type D) EN 361:2002 - Personal protective equipment against falls from a height / Full body harnesses. **Attention!** The Air Top shoulder harness must never be used alone but always and only in combination with the Ascent Pro harness. The correct combination of the Air Top model and the Ascent Pro model give origin to the full arrest harness EN 361.

1) NOMENCLATURE. (Fig. 3.) 1) Belt. 2) Belt loop. 3) Belt adjustment buckle(s). 4) Tool carrier loop. 5) Belay loop. 6) Loop. 7) Leg loops. 8) Leg loops elastic supports with clip. 9) Label. 10) Leg loops adjustment buckle(s). 11) Fitting bars for tool carrier connector. 12) Shoulder straps. 13) Buckles for adjusting shoulder straps. 14) Buck support. 15) Chest strap. 16) Buckle for adjusting chest strap. 17) Movable closure buckle. 18) Fixed closure buckle. 19) Textile sternal attachment element EN 361. 20) Capital letter A, indicating the element of attack EN 361. 21) Connector for the attachment loop. 22) Buckle for adjusting the attachment loop. 23) Connecting connector. Mair materials: Webbing and stitching made from PES/PA and stainless steel buckles.

2) MARKING. The label shows the following information (Fig. 2): 1) Name of the manufacturer or of the responsible for putting it on the market. 2) 0333 - Number of the notified body responsible for the control of the manufacturing. 3) Size. 4) The product name. 5) Individual serial number (AAAA-MM-YY). 6) Product model. 7) CE marking. 8) Logo advising the user to carefully read the instruction manual before employing the device. 9) Pictogram that illustrates how to close and secure the adjustment/closure. 10) Place of manufacture. 11) Building materials. 12) Number of the relevant EN normative of reference. 13) Pictogram that illustrates the correct attachment points. 14) Correct direction of insertion of the A buckle into the B buckle. 15) Pictogram indicating that the shoulder harness should never be used alone.

3) TRACEABILITY. Individual serial number (AAAA-MM-YY) composed by progressive number (AAAA), month (MM) and year of manufacture (YYYY).

4) SAFETY CHECK LIST. Check carefully before each use: webbings and stitchings do not present cuts, abrasions, burns or corrosion; the buckles don't present signs of wear, holes, corrosion or deformation. During each use regularly verify: the good working conditions of the device comprising the correct placing of the other components included in the system; that the connectors are properly locked and the safety catch is closed. **Attention!** It is important to check regularly the buckles and/or the adjustment devices during the use. **Attention!** The performances of a device may decrease due to ageing or to a improper storage.

5) GENERAL WARNINGS. 1) The device has been designed to be used in weather conditions that can normally be withstood by humans (operating temperature range between -20°C and +60°C). 2) All the materials and treatments are hypoallergenic and do not cause skin irritation or sensitivity. 3) Gear loops are to be used only to hang materials. Do not use for other purposes (fastening, letting down etc.). 4) Inert suspension in the harness can cause serious physiological injuries and, in extreme cases, fatality. 5) Pay attention to the effects of humidity and ice, extreme temperatures, sharp edges, chemical reagents, electrical conductivity, cuts, abrasions, UV rays etc., because they may prejudice the safety of the device.

6) WEARING AND ADJUSTING. Choose a harness of a suitable size, by consulting the chart (Fig. 1), containing following data: A) Height of the user; B) Circumference of the belt; C) Circumference of leg loops. **Attention!** Before use, it is necessary to carry out a hanging test in a safe environment, in order to ensure that the harness has the correct size, it owns the possibility of a suitable adjustment and an acceptable compatibility level for the intended use.

6.1 - Donning the ASCENT PRO. Put on the harness so that the belt and the leg loops are positioned at the correct height (Fig. 7). Adjust the belt using the adjustment buckles (Fig. 4.1) so that it fits perfectly to the body, without being too tight (Fig. 6.1). Adjust the loops by using the adjustment buckles (Fig. 6) and the elastic supports, so that a hand can pass between the leg loop and the user's leg (Fig. 6.3).

6.2 - Donning the AIR TOP. Open the chest straps by adjusting the closure buckle and put it on as illustrated, making sure that the EN 361 attachment element is positioned at the height of the sternum (Fig. 7) and there is an abnormal twisting of the straps. Close the chest strap using the closure buckles. Adjust the shoulder straps and the chest strap using the adjustment buckles (Fig. 4.2-4.3), so that the harness fits well and is comfortable. Connect the connector to the belay loop of the Ascent Pro model and adjust, if necessary, the length of the attachment loop using the relevant buckle. **Attention!** The connector supplied is only to be used to connect the sit harness and the chest harness; do not connect anything else!

6.3 - Donning the AIR ASCENT. Put on and adjust the harness according to step 6.1. Put on and adjust the shoulder harness according to step 6.2.

6.4 - Use of closure buckles. The Air Top model is provided with a pair of buckles (A-B) allowing its opening and closure. In order to close the harness, the mobile buckle A must be inserted into the fixed buckle B, as indicated (Fig. 4.4). The arrow marked on the buckle A shows the correct direction of insertion. **Attention!** Verify that the buckle is correctly inserted. Execute the sequence in reverse order for opening the harness.

7) SPECIFIC INSTRUCTIONS FOR USE EN 12277. The harness of type C can be used combined with a chest harness of type D. **Attention!** The use of a single harness of type D not coupled with a harness of type C can lead to risks of injuries. **Attention!** Before each use, pre-arrange a suitable rescue plan that could be executed in a safe and efficient way.

7.1 - Use. The harness must be connected to the system only using the attachment points envisaged for this scope: double attachment point, the rope passes through the belt loop and the leg loop and it is closed by means of a figure of eight (Fig. 9.1); single attachment point, the rope is connected to the belay loop by means of two screw gate carabiners having opposed gate (Fig. 9.2). **Attention!** Do not use different attachment points than the indicated ones. **Attention!** Never use a tie-in method with only one connector, as it may come to be located in a wrong position across the gate.

7.2 - Techniques. The harness is intended to be used for mountaineering, including climbing. It can be used for the belay techniques (Fig. 11.1), abseiling (Fig. 11.2), Via Ferrata routes, etc. The Pro-canyon model has been specifically designed for canyoning.

8) SPECIFIC INSTRUCTIONS FOR USE EN 361. Any activity carried out at a height of more than two metres requires the use of Personal Protection Equipment (PPE) as a protection against the risk of a fall. Before accessing the work station, all the risk factors must be evaluated (environmental, concomitant, consequential). Before performing work at heights, it is mandatory to prearrange a rescue plan to give immediate assistance to the operator in difficulty; inform the operator about the rescue plan.

8.1 - EN 361 warnings. Full body harnesses EN 361 are the only devices that can be used in a fall arrester system. The sternum attachment point is indicated by the letter A and it is intended to connect a fall arrester provided for the EN 363 (for example: energy absorber, guided type fall arrester, etc.). A full body harness against falls from a height is a component of a fall arrester system, and it must be used in combination with anchorages EN 795, shock absorbers EN 355, connectors EN 362 etc. **Attention!** Always make sure to have enough clearance to avoid impacts with the ground or obstacles on the trajectory of a bad fall in the air (please check the value of the clearance distance of the fall arrester in the instruction manual, Fig. 9.3). **Attention!** Only anchor points that comply with the EN 795 standard can be used (minimum strength 12 kN or 18 kN for non-metallic anchors that do not have sharp edges).

8.2 - Techniques (Fig. 12). These instructions show a non-exhaustive example of use (work on work on ladders).

8.3 - Periodic check. At least every 12 months (6 months for usage in the sea), a rigorous check of the device must be carried out by the manufacturer or expert staff expressly certified by the manufacturer. This frequency can vary depending on the frequency and intensity of usage. Performing periodic checks on a regular basis is essential to ensure the continued efficiency and durability of the device, on which the safety of the user depends. The results of the checks will be related on the appropriate sheet that is supplied with every device and that must accompany the device. **Warning!** If the sheet is missing, or illegible, do not use the device. **Device identification sheet (Fig. A):** A) Trademark; B) Manufacturer; C) Product (type, model, code); D) User (company, name and address); E) Serial number / batch; F) Year of manufacture; G) Purchase date; H) Date of first use; I) Expiry date; L) Reference standards; M) Notified Body that performed the CE check; N) Notified Body that controls production. **Device periodic check sheet (Fig. B):** O) Date; P) Reason for check: periodic check or additional check; Q) Name and signature of the person responsible for checking; R) Notes (defects found, repairs performed or other relevant information); S) Check results: device suitable for use, device not suitable for use or device to be checked; T) Date of next check.

