SPARROW 200R

climbing technology
GENUINE ITALIAN HARDWARE

EN Self-braking descender.
IT Discensore autofrenante.
FR Descendeur autofreinant.
DE Selbstbremsendes Abseil.
ES Descensor autofrenante.
PL Przyrząd zjazdowy samoblokujący.
PT Descensor auto-frenante.
SE Självbromsande nedfirningsdon.
FI Itsejarruttava laskeutumislaite.
NO Selvlåsende nedfiringsbrems.
DK Selvlåsende nedfiringsbremse.
NL Zelfremmend afdaalapparaat.
SI Osmica s samodejnim zaviranjem.
SK Samo brzdiaci zostup.
RO Blocator cu frânare automată.
CZ Samosvorná slaňovací brzda.Self-braking descender.
HU Önfékező ereszkedőeszköz.
GR Αυτόματη πέδηση.
RU Самотормозящее спусковое устройство.
EE Isepidurdav laskumisseade.
LV Pašbloķējošās nolaišanās ierīce.
LT Savaime stabdantis nusileidėjas.
BG Самоспиращ спускателен апарат.
HR Samokočiva spuštalica.
CN 自动制停下降器。
JP 自動ブレーキビレイ。

MADE IN ITALY
EN 12841:2006-C
EN 341:2011-2A

CE 0333

Regulation (EU) 2016/425
Personal Protective Equipment against falls from a height.

1 ROPES COMPATIBILITY

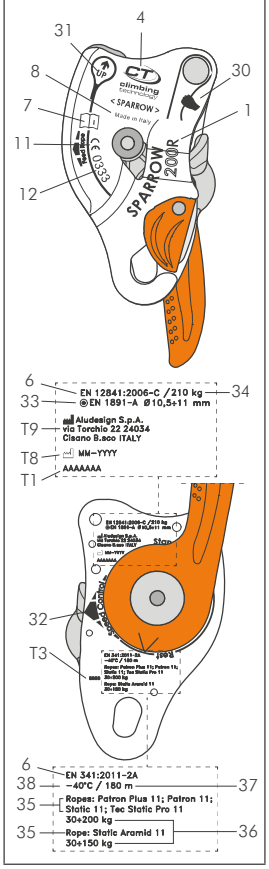
EN 12841:2006-C
EN 1891-A ⦿ Ø 10,5÷11 mm
210 kg

EN 341:2011-2A
-40°C / 180 m
Tec Static Pro 11; Patron Plus 11; Patron 11; Static 11
30÷200 kg
Static Aramid 11
30÷150 kg

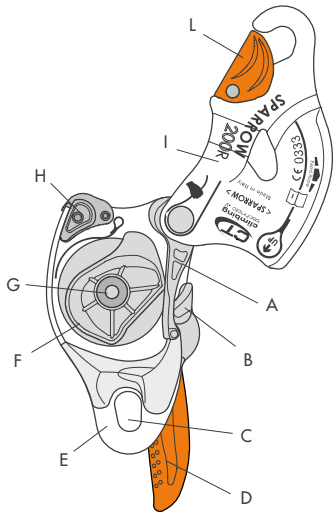
ROPES TECHNICAL DATA

		Tec Static Pro 11	Patron Plus 11	Patron 11	Static 11	Static Aramid 11
1.1	Product					
1.2	Trademark	Bornack	CT Teufelberger	CT Teufelberger	Tendon	Tendon
1.3	Ø	11,0 mm	11,0 mm	11,0 mm	11,0 mm	11,0 mm
1.4	Ropes standard	EN 1891-A	EN 1891-A	EN 1891-A	EN 1891-A	EN 1891-A
1.5	Breaking load	36 kN	32 kN	32 kN	33 kN	44 kN
1.6	Breaking load	22 kN	22 kN	22 kN	22 kN	22 kN
1.7	Weight	79 g/m	77 g/m	75 g/m	80 g/m	80 g/m
1.8	Sheath weight	41%	35%	35%	39%	48%
1.9	Core weight	59%	65%	65%	61%	52%
1.10	Sheath slippage	0,1%	0,6%	0,8%	0,3%	0,2%
1.11	Elongation	3,4%	4,8%	3%	3,7%	2,5%
1.12	Shrinkage	1,7%	2,2%	4%	1,9%	2%
1.13	Material	PA	PA	PA	PA	Aramid/PA

2 MARKING



3 NOMENCLATURE OF PARTS



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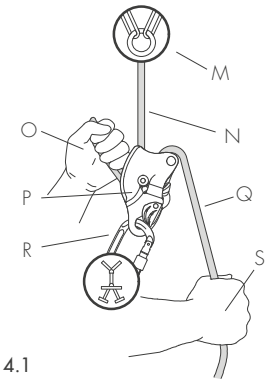

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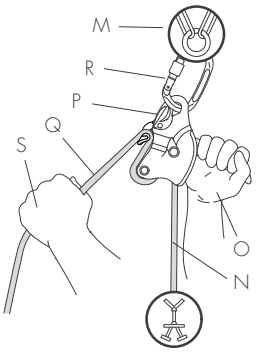

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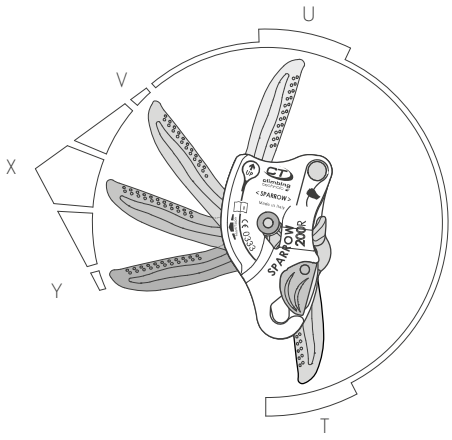
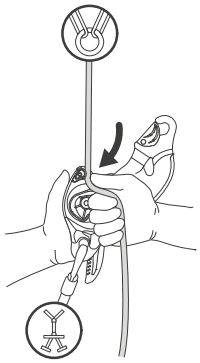


4.3

5 INSERTION OF THE ROPE - Device on the harness



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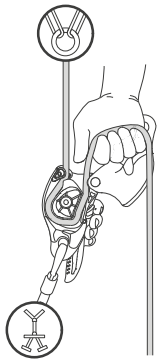

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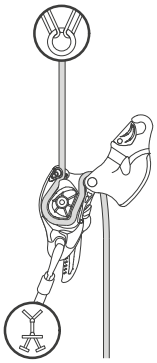

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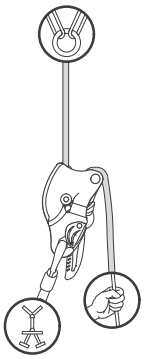

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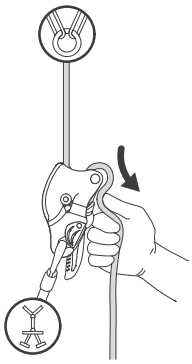

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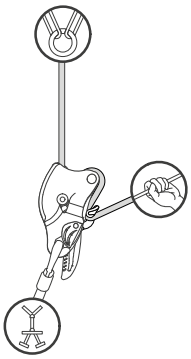
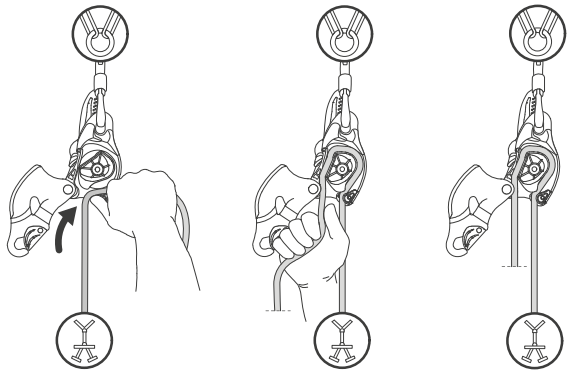
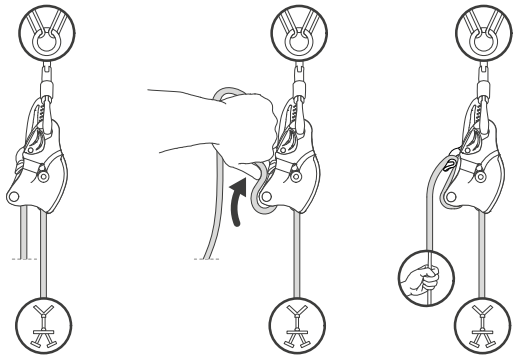


5.6 - OK!

6 INSERTION OF THE ROPE - Device on the anchor point



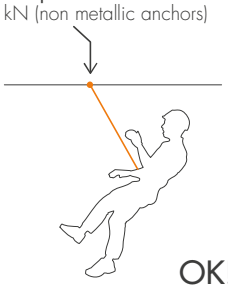
6.1 6.2 6.3



6.4 6.5 6.6 - OK!

7 ATTENTION!

Anchor point EN 795: min.12 or 18 kN (non metallic anchors)



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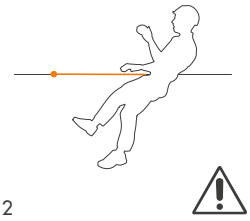

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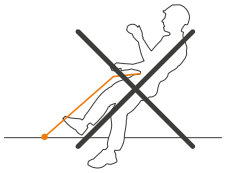
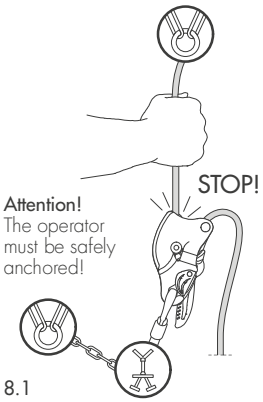


7.3 DANGER

8 TESTING



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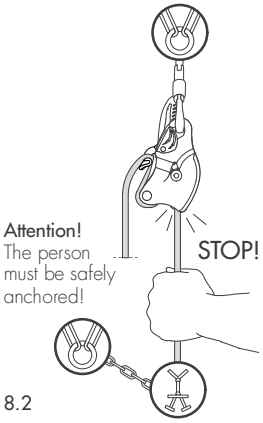
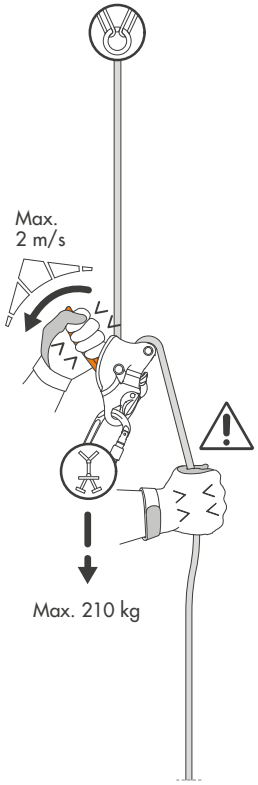


8.2

9 **EN 12841:2006-C** - Descent of one person

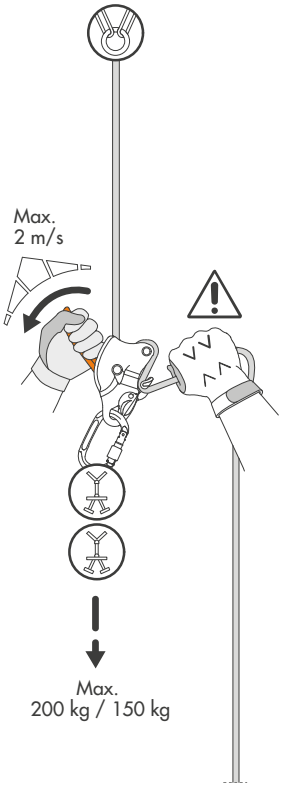
9.1



9.2

10 **EN 341:2011-2A** - Descent of two people

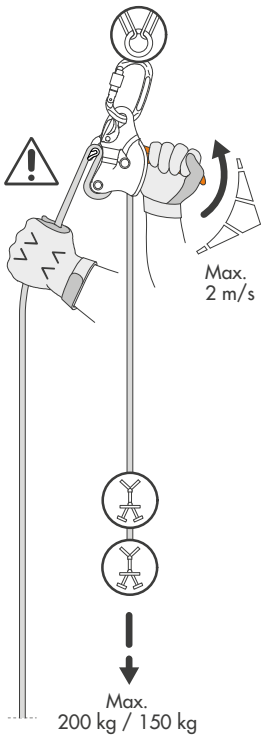
10.1



10.2

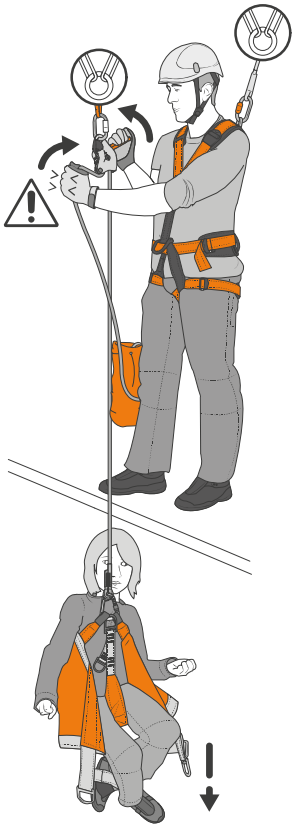
11 EN 341:2011-2A - Lowering from an anchor

11.1

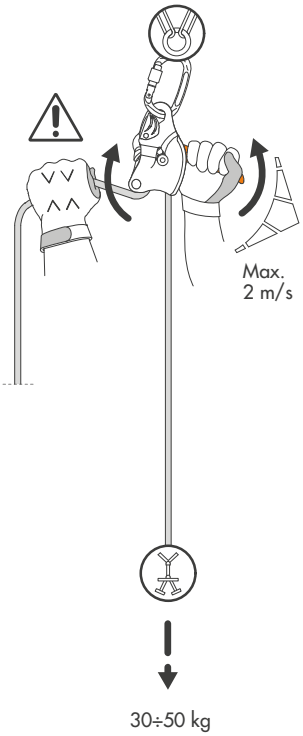


11.2

12 EN 341:2011-2A - Lowering from an anchor (light load)

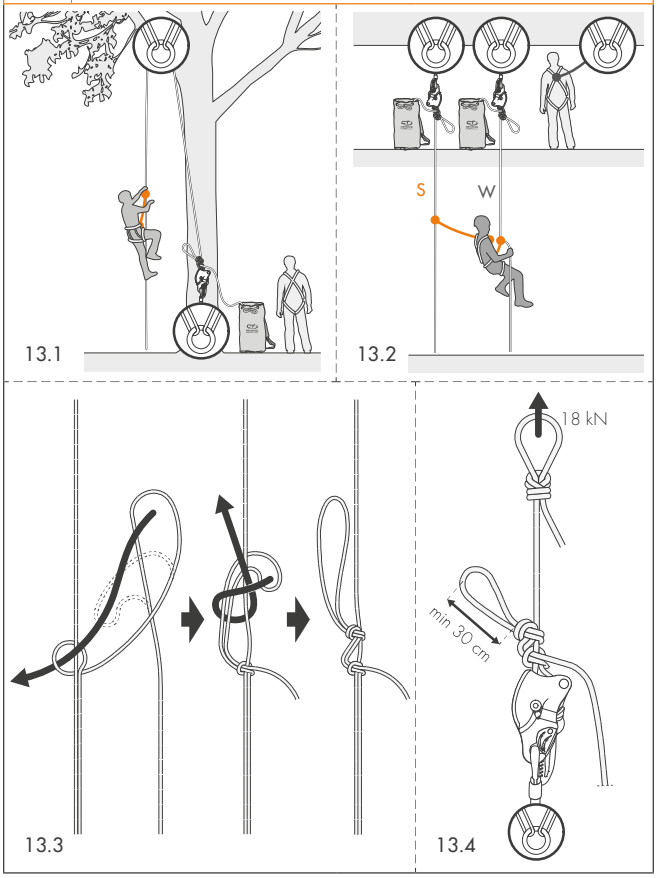


12.1



12.2

13 USE AS A CONNECTING ELEMENT



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 SPARROW 200R.

This note contains the necessary information for a correct use of the following product/s: self-braking descender Sparrow 200R.

1) FIELD OF APPLICATION.

EN 12841:2006-C - Rope adjustment device / descender: to be used with ropes (core + sheath) static or semi-static EN 1891-A Ø 10,5÷11 mm. EN 341:2011-2A - rescue descender: to be used exclusively with the ropes indicated in the table (Fig.1). This product is a personal protective device (P.P.E.) against falls from height; it is compliant with the Regulation (EU) 2016/425. **Attention!** For this product the indications of the standard EN 365 must be respected (general instructions / paragraph 2.5). **Attention!** For this product a periodic thorough inspection is compulsory (general instructions / paragraph 8.)

2) NOTIFIED BODIES.

Refer to the legend in the general instructions (paragraph 9 / table D): M2; M3; N1.

3) NOMENCLATURE.

Components of the device (Fig. 3): A) Counter-block; B) Snapping catch; C) Attachment slot; D) Control handle; E) Fixed side plate; F) Cam; G) Cam pivot; H) Feed rope slot; I) Sliding side plate; L) Safety catch. Components of the system (Fig. 4.1-4.2): M) Anchor point; N) Engaged side of the rope; O) Hand controlling the descent; P) Descender; Q) Free end of the rope; R) Connector for linking to the harness or anchor point; S) Hand holding the free end of the rope. Handle positions (Fig. 4.3): T) Stand-by / Safety work positioning; U) Work positioning; V) Start descending; X) Maximum descent speed; Y) (EBS) extra braking system.

3.1 - Main materials. Refer to the legend in the general instructions (paragraph 2.4): 2 (cam, counter-blocks, hinges, springs); 3(side plates), 7 (handle, safety catch).

4) MARKING.

Numbers/letters without caption: refer to the legend in the general instructions (paragraph 5).

4.1 - General (Fig. 2). Indications: 1; 4; 6; 7; 8; 11; 12; 30) Indication of the free end of the rope; 31) Indication for the anchored/engaged side of the rope; 32) Indication about the work modes of the control handle; 33) Admitted diameter and type of ropes (EN 12841); 34) Maximum work load permitted (EN 12841); 35) Permitted rope models (EN 341); 36) Min and Max work load permitted (EN 341); 37) Max descent length permitted (EN 341); 38) Lowest temperature of use permitted (EN 341). **Attention!** EN 341:2011 is not included in the harmonized standards for PPE, the CE marking refers solely to EN 12841:2006.

4.2 - Traceability (Fig. 2). Indications : T1 ; T3; T8 ; T9.

5) CHECKS.

Further to the checks listed below, comply with what indicated in the general instructions (paragraph 3).

Before each use, verify that: the cam rotates freely, without jamming and the spring of the cam snaps it in the rope locking position; the cam is not worn out especially in the area where it locks on to the rope and inside the grove for the rope; the connector placed in the attachment slot is free to rotate unimpeded; the control handle works properly, the spring sets back the handle in to the "REST" position; the mobile side plate hooks properly on to the hinge of the cam; the control handle rotates correctly without impediments.

During each use: ensure the rope is always in tension to avoid possible free-falls; avoid having slack rope between the anchor and the attachment on the harness; pay special attention to the wear of aramid fiber ropes since they are exposed to quicker deterioration. **Attention!** Before you apply a load on to the device, make a thorough good working order check.

6) ISTRUCTIONS FOR USE.

Any activity carried out at height 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).

6.1 - Warnings. 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. The anchor point must be always located at or above waist level to minimize the eventual free fall distance (Fig. 7.1).

6.2 - Inserting and removing the rope. Connect the Sparrow 200R to the ventral ring of your full body harness (Fig. 5) or to the anchor point (Fig. 6), using a locking karabiner certified to EN 362:2004 (max.120mm); open the mobile side plate; insert the rope following the instructions on the device; close the mobile side plate (ensure the safety catch is properly closed). In difficult conditions, when you need a stronger braking action, or lowering a heavy weight from an anchor point, pull the free end of the rope through the snapping catch, you will have better control over the descent.

6.3 - Good working order check. Before each use verify the good working conditions of the device. **Attention!** Before following this procedure, you must safety backup on abseil. Use with a fall arrest harness (Fig. 8.1): 1) Pulling on the engaged side of the rope, the cam must lock the device: in case it doesn't, check the correct insertion of the rope. 2) Load progressively your weight on the device, holding the free-end of the rope: The cam must lock on to the rope. If the cam locks on to the rope, the device is working properly and is ready to use. If the Cam doesn't lock the device, check whether the rope has been correctly inserted, if the device still doesn't lock on to the rope, remove it from further use immediately. Use on an anchor point (Fig. 8.2): 1) Remember to pull the free end of the rope through the snapping catch. 2) Pulling on the engaged side of the rope, the cam must lock on to the rope. If the Cam doesn't lock the device, check whether the rope has been correctly inserted, if the device still doesn't lock on to the rope, remove it from further use immediately.

6.4 - EBS (Extraordinary braking system). EBS is security systems that decreases the speed rather than increase it, when the lever is accidentally pulled downwards. **Attention!** This maneuver has to be used only in case of emergency and not during normal employment. Regular use of this safety system may lead to a faster wear of the rope. To resume the descent, firmly hold the free end of the rope and gradually release the control handle back in to the "REST" position. At this stage you can re-start descending following the instruction above.

7) SPECIFIC INSTRUCTIONS EN 12841:2006.

The Sparrow 200R descender is a Personal Protective Equipment (PPE) intended to be incorporated in a rope access system. The Sparrow 200R descender is a rope length adjuster type C intended for descending a rope (anchor line). **Attention!** Rope length adjusters must not be used for fall arrest. **Attention!** An anchor line loaded with the entire weight of the user, has to be considered a work line and is not meant to arrest a fall. It is mandatory to use a fall arrest back-up device type A connected to a safety line. Pay attention that the back-up system is never loaded on to the work line.

7.1 - Abseil of one person (Fig. 9). Holding the free end of the rope, gradually pull on the control handle to adjust the speed. For difficult abseils, requiring a stronger brake power, insert the free end of the rope through the snapping catch in order to have a better control over the heavy weight and gradually pull on the control handle to adjust the speed. **Attention!** Always hold the free end of the rope whilst abseiling. To stop the descent, let the control handle go: The lever will spontaneously return to "REST" mode. No further maneuvers are required to up-keep the position hands free. For avoiding any interfering with the handle or to work more comfortably, it's possible to shift the control handle on to "STAND BY" mode. **Attention!** Never lose governance over your abseil, it may result difficult to regain control.

7.2 - Warnings. 1) Always wear a pair of good suitable gloves to protect your hands when manoeuvring the device and the rope. 2) Use only static or semi-static rope (core + sheath) Ø 10,5÷11 mm certified to EN 1891 type A (For the certification of this device, the following rope has been employed: Bornack TEC Static Pro 11 mm; Teufelberger Patron 10,5; Teufelberger Patron Plus 11); 3) There aren't restrictions for the length or slant of sloped pathways. 4) No special precautions are required when accessing sloped trails. 5) Any overloading or loading on the device can harm the anchor line. 6) Never use lanyards or extensions of any mean to connect the device to your harness. 7) During use, the anchor point must always be placed above the waist belt attachment point of your harness. 8) The technical performances of the anchor line might vary considerably, due to dirt, moisture, ice, repeated descents on the same stretch: keep in mind that these variances will influence the behaviour of the rope inside the device, and consequently, the speed of descent.

8) SPECIFIC INSTRUCTIONS EN 341:2011.

The Sparrow 200R descender can be employed in rescue operations.

8.1 - Accompanied descent, device on the harness (Fig. 10). Insert the free end of the rope through the snapping catch. Holding the free end of the rope, gradually pull on the control handle to adjust the descent speed. To stop the descent, let the control handle go: The lever will spontaneously return to "REST" mode. **Attention!** Always hold the free end of the rope whilst abseiling. **Attention!** Never lose governance over your abseil, it may result difficult to regain control.

8.2 - Descent from an anchor point (Fig. 10-12). Insert the free end of the rope through the snapping catch; hold the free end of the rope gently push up the control lever to release the rope gradually. To adjust the speed, vary the hold over the free end of the rope. To stop the descent, let the control handle go: The lever will spontaneously return to "REST" mode. No further maneuvers are required to up-keep the position hands free. **Attention!** Always hold thight the free end of the rope whilst lowering the load. When you are lowering a light weight (30-50 kg) and you have difficulties feeding the rope (rope might be dirty, wet of too stiff), you can release the rope from the snapping catch, advance the hand holding the free end of the rope to control the speed. **Attention!** Pay attention that the hand holding the free end of the rope doesn't get too close to the device. **Attention!** Never lose governance over your abseil, it may result difficult to regain control.

8.3 - Warnings. 1) Always wear a pair of good suitable gloves to protect your hands when manoeuvring the device and the rope. 2) Verify that the connections of the device and the anchor are arranged correctly, in such a way that the abseil

cannot be hampered. 3) Full body harnesses are the only mean for retain the body that can be used with the device. 4) In the due case it is necessary to leave the device placed in the work location, make sure to adequately protect it from the atmospheric conditions and from dirt. 5) The device is meant to bear with a total descent energy of 7,5 x 10^6 J. The total descent energy is caluculated E = m x g x h x n (m = mass; g = gravity acceleration; h = maximum lowering height; n = number of descents). This device has been tested with the following parameters: m max = 200 / 150 kg; g = 9.81 m/s^2; h max = 180 m; n = 22 / 29 descents. **Attention!** Consider this as the maximum attainable energy during use. 6) Whenever you need to do a rapid sequence of lowering's, pay particular attention taking back in the rope for storing it in the bag or the designated area, to avoid forming knots or twists on the line, which would hamper with the next descents. 7) Pay attention about the possibility of the device to overheat during a descent and consequently damage the anchor line.

8.4) Technical specifications of the permitted ropes (Fig. 1): 1.1) Product; 1.2) Trademark; 1.3) Diameter; 1.4) Standard of the rope; 1.5) Breaking load of the rope without end loops; 1.6) Breaking load of the rope with end loops; 1.7) Weight; 1.8) Sheath weight; 1.9) Core weight; 1.10) Sheath slippage; 1.11) Elongation; 1.12) Restringimento; 1.13) Material.

9) USE AS A CONNECTING ELEMENT.

The equipment has been tested at 18 kN with Patron Plus 11.0 rope, according to the mode shown (Fig. 13.4) in order to comply with the values required by the standard EN 795 (anchor devices) and to be used as a connecting element between the anchor and the work and safety lines (Fig. 13.1-13.2). This type of configuration is not covered by the standard but makes it possible to facilitate a rescue manoeuvre, if necessary. **Attention!** The device must be installed using a mule knot secured with a safety knot in order to guarantee the declared load and avoid the accidental release of the line. **Attention!** The loop formed by the safety knot must have a minimum length of 30 cm (Fig. 13.4). **Attention!** Make sure that the remaining line has a length that is appropriate to the lowering, if necessary, and that the correct terminations are in place (knot and/or sewn terminations).

10) SYMBOLS.

Refer to the legend in the general instructions (paragraph 16): F1; F2; F3; F4; F5; F9.