

TEPA 555

Descender device



1 Declaration of conformity TEPA 555 Descender device

The device is used to take down 1–2 persons from a mast or another height.

* The maximum personnel load is 100 kg

* The maximum descent is 150 m

The device meets the requirements of the standard **SFS-EN 1496**:

The parts have been tested according to the standard **EN-341 + A1 1996** in conjunction with the type test of the TEPA 550 Personal Rescue Equipment
FIMTEKNO REFERENCE NR:01201 / CERTIFICATION NR:01196

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2 Operator's manual for TEPA 555 Descender device

TEPA 555 Parts list and operator's manual

Two installers work in the mast without TEPA 501.2 mast winch.

When climbing up the mast, the installers take along the rope (1), in which there are pre-installed parts of the hoisting gear (8-9-10) and descending equipment Pro Allptech (2), mounting band (3), and 3 pcs of closing rings (4).

The rope is mounted in the mast structure, above the working height with a band loop (5) and a closing ring (4).

If a situation occurs, whereby the other installer is not able to come down, descending help procedure starts.

The rescuer connects the closing ring (4) of the Pro Allp Tech (2) on his/her own harness.(Front D-loop). Cresto 3682 (3) closing ring (4) will be mounted on the front D-loop of the person's harness to be rescued.

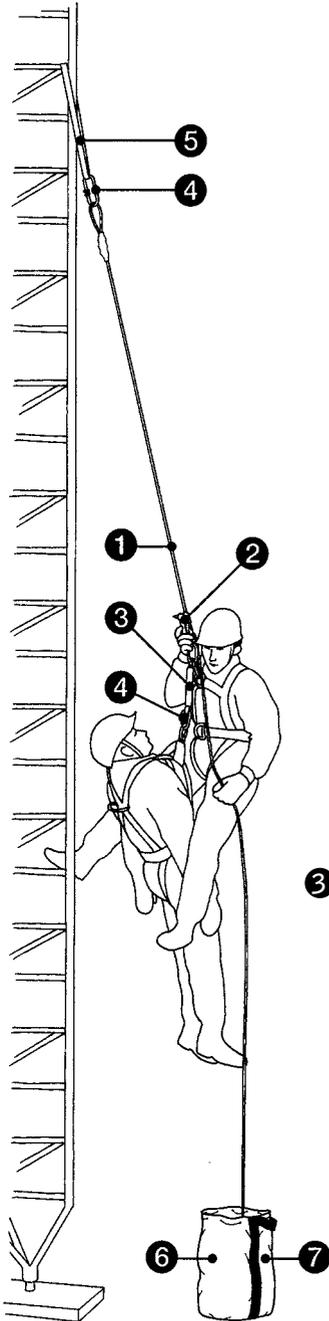
Please note! The weight of both lies now under the Pro Allp Tech arrester/brake (2).

If the rescued person has to be lifted, before he/she can be attached to the Pro Allp Tech (2), the premounted hoisting gear (8-9-10) will be used.

Now the rescued person can be released from the safety rope and descending acc. to practised method can be started.

By this method an injured person can be easily taken down from the mast, which is crucial in case of a person coming severely ill or injured.

Please note! Different manufacturers have various solutions on placement of D- loops for connecting on harnesses.

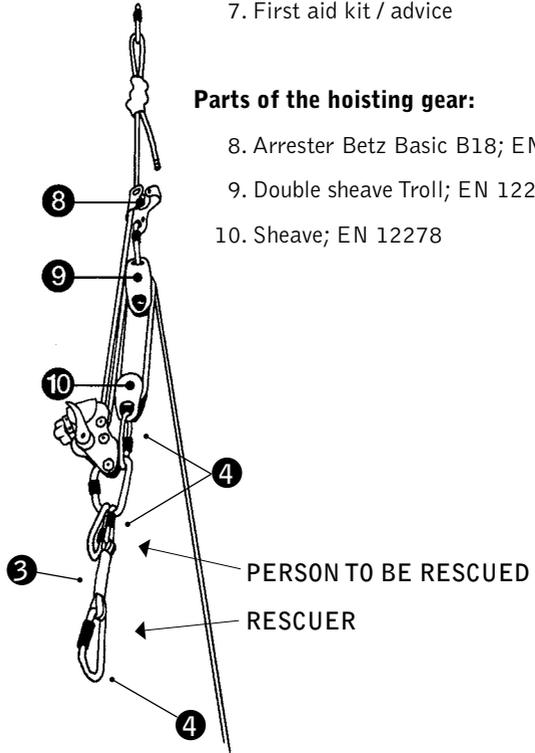


Descending equipment:

- 1. Rope 22 kN; EN 1891
- 2. Pro Allp tech; EN pr 12841 C
- 3. Mounting band Cresto 3682; EN 354
- 4. Closing ring 22 kN; EN 362
- 5. Band loop 22 kN; EN 354
- 6. Rope bag West Point
- 7. First aid kit / advice

Parts of the hoisting gear:

- 8. Arrester Betz Basic B18; EN 567
- 9. Double sheave Troll; EN 12278
- 10. Sheave; EN 12278



4 Operator's manual for the Pro Allp Tech descender device (rope arrester)

The manufacturer recommends thorough training before starting to use the device in actual work situations. This booklet only provides some guidelines; it isn't user's manual for training. If this device is used improperly, or if the instructions are neglected, it may result in injury or death.

Safe working:

Safe fixing points must always be located above the climber, and slack parts should be avoided in the anchorage line. A safety rope is recommended to be used to guarantee the optimal safety.

Testing and use:

Pro Allp Tech has been tested in accordance with PrEN 12841, using the new Troll 11x32 Platt rescue and intervention rope as well as Cousin 10.5, 11x16 Platt and 12.5 mm x 20 Platt Low Stretch ropes. The operator must take into consideration the fact that all the following factors affect the durability of the rope in different ways: moisture, snow, ice, dirt, different rope diameters etc.

Check before use:

Check that there aren't any damages in the descender device, or any other faults preventing normal use. Do this both before and after the use. If you have any doubt there is any fault or damage in the descender device, it must be removed from service and be inspected by a person recommended by the manufacturer, or otherwise the device will have to be returned to the manufacturer. Depending on the amount of use, the device will always have to be inspected at regular intervals. It is recommended that the device is to be inspected at least once a year by a qualified person.

It is difficult to define the life span of the device, nevertheless, as a guideline we can give you this advice: please don't use the device, if 10 years have elapsed from the date of manufacture of the device, or after 5 years of use, whichever comes first. In working use, the durability may vary under special circumstances from a single occasion of use to five years, depending on how the device is being used. The working life will be reduced by general wear and wrenches, damages in structural elements, the use of unsuitable equipment or due to powerful jerks of the load. Continuous exposure to corrosion or chemicals or the neglecting of the recommended storage and maintenance will also shorten the lifetime.

NOTE! All the descenders generate heat that may damage the rope, if particularly hot object/element is allowed to stay in a single position. The side plates that evaporate heat from the reel and the cam wheel reduce this friction.

Mounting:

Connect the Pro Allp Tech TEPA 550 to the winch or to the anchorage point according to the instructions.

- release the lock hook and open simultaneously the side plates, to feed the rope (figure 5 and 6)
- feed the rope (figure 7)
- close the side plates and the fastening pin/bolt, the bolt will move automatically to its place

Check that the device is in completely locked position before any descent is to be carried out. Complete locking is 'on' when the automatic locking handle is in its maximum position and the adjustment screw has been turned to the red direction, until the end. The locking will open gradually when the screw is turned towards the green marking.

Releases, general publications, EC certificates:

- SGS Yarsley International Certification Services
- SGS House 217-221 London Road, Camberley, Surrey, GU 15 3 EC
- Identification number 0120

Product markings explained:

- CE mark complies with the EC directive 89/686/EEC. The device has a four-digit identification number.
- PrEN 12841 C complies with PrEN 12841.1999, type C.
- Device to protect a person from falling from a height. Rope feed system. Rope control devices.
- ID-No.; the first two digits indicate the year of manufacture, and the subsequent digits the serial number of the product.
- 10.5 – 12.7 indicate the minimum and maximum diameter of the rope to be used with the device.
- Pro Allp Tech is the name of the device, Troll is the brand.
- PAT.No 2256673 is the patent number.

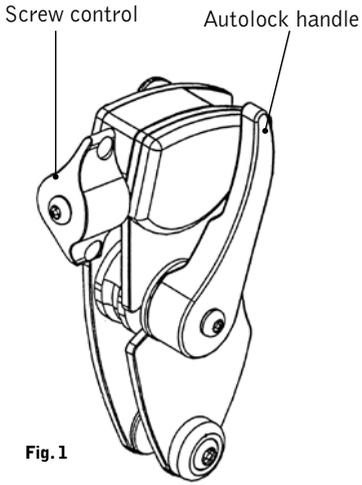


Fig. 1

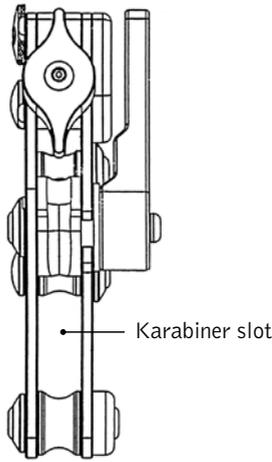


Fig. 2

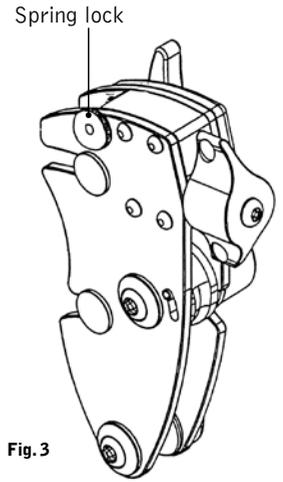


Fig. 3



Fig. 4

- Pro Allp Tech from the front



Fig. 5

- Open plates



Fig. 6

- Open lock



Fig. 7

- Rope feed/ removal



Fig. 8

- Pro Allp Tech from behind
- Inspection

5 Mammut descending rope 7030912 10,5 mm EN 1891

Life time:

The lifetime of the rope depends on the amount of use and on the way of use. The rope may become unfit for use even after the first occasion of use, in case one has acted incorrectly. Repeated falls, chafing, UV radiation and moisture weaken the rope little by little.

Average lifetime of the rope:

- Active use: from three months to a year
- Weekly use: from 2 to 3 years
- Occasional use: from 4 to 5 years
- The maximum lifetime of the rope is five years.

The rope should be abandoned from use, if:

- The rope has been in a powerful fall.
- The rope core has been damaged.
- The rope case has been badly damaged.
- Chemicals damaging the rope have attacked the rope.
- The rope should not be used for longer than five years in any case.
- The rope should be stored in the sales package, and the lifetime must not exceed 10 years from the year of manufacture.

Rope maintenance:

Before the first use soak the rope through and allow it to dry gradually. The rope will shrink about 5%, and you should take this into consideration when calculating the rope length. Please note that the rope diameter will expand in use, and the maximum decrease in the rope length will be 5%.

The rope must not be in touch with corrosive substances such as acids, oils and fuels, because they may damage the fibres without any visual indication. Paints and detergents may also be harmful to the rope.

If detergents or paints get into the rope in work use, their impact on the rope must be tested in advance. Avoid the rope getting exposed to UV radiation; store the rope in a sheltered, dry and cool place.

If the rope is dirty, it can be washed in lukewarm water. When necessary, you may use detergents meant for fine wash and a brush with man-made fibres. If the rope is soaking wet, let it dry in a sheltered place away from heat sources.

After each use, check that there are no visible damages in the rope and that the rope feels undamaged when pulled through hands. There may be very serious damages in the rope that can be seen only in use and when inspecting the rope. Use the rope bag always when transporting the rope, to avoid the rope from getting dirty and twisted. If you have to cut the rope, always mark the new ends of the rope with the type markings of the rope.

Please note! Never pack the rope when it is wet !

Parts 8-9-10

After each use make a visual check of the parts. Make sure that mechanical parts are Ok, clean and work normally. Damaged parts have to be replaced !