



PRO TRAXION

Experience



- This "Product Experience" document is a supplement to the Instructions For Use, which provides feedback from field experience and tips for using your product
- It is inseparable from the Instructions for use



Important / remember

- Read the instructions for use carefully before looking at the following techniques
- You must have already read and understood the information in the Instructions for use to be able to understand this supplementary information
- Mastering these techniques requires specific training
- Work with a professional to confirm your ability to perform these techniques safely and independently before attempting them unsupervised



Failure to heed any of these warnings may result in severe injury or death.

Each piece of information is listed according to the technical level required for its application. Respect your own level when choosing your techniques.

FOR BEGINNER Beginner technique

Technique usable by a trained practitioner of the activity.

NOT FOR BEGINNER Technique for a certified practitioner

Technique for a person trained and certified in the activity.

EXPERT ONLY Expert technique

Technique only for experts in the activity.

Legend of icons



user



user-mass



climber



hand



victim



anchor



rappel



mass



victim + rescuer



small mass



fall



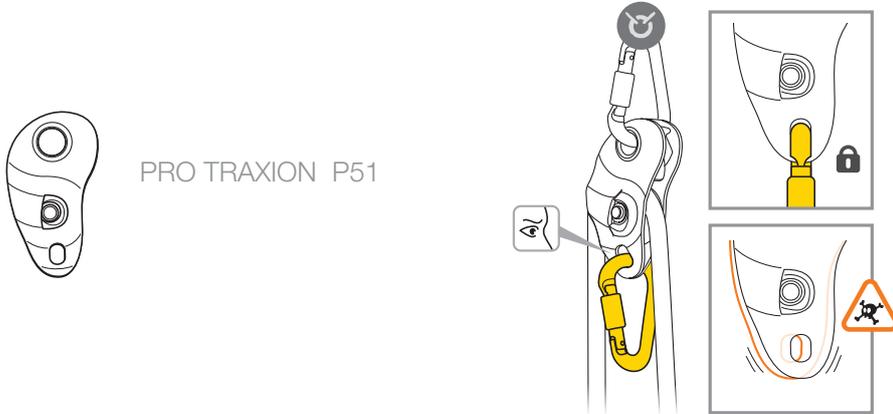
harness

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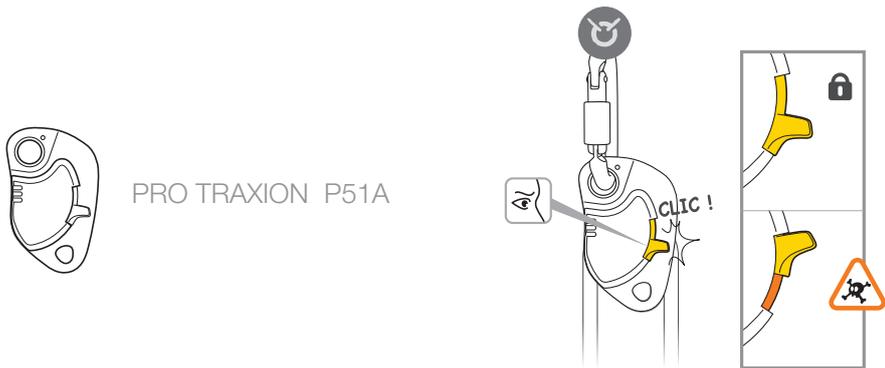
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FOR BEGINNER **000** Use of a connector in the secondary connection hole

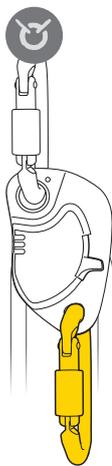
Remember



PRO TRAXION P51



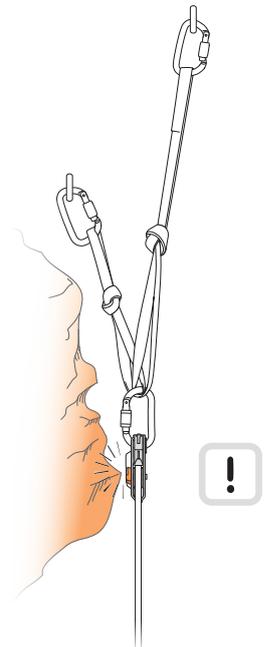
PRO TRAXION P51A



Note that with the PRO TRAXION P51A, you are no longer required to use a connector in the secondary connection hole to lock the sideplates. It is the safety catch on the side plate that ensures this function, with a red indicator showing if it is not properly locked.

Nevertheless, in certain situations, the use of a connector in the lower hole is recommended as a precaution:

- Pulley installed on a movable anchor, with risk of rubbing against rock or a surface that could damage the safety catch.
- Pulley installed out of sight of the user.



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ONLY **000**

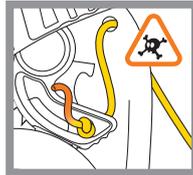
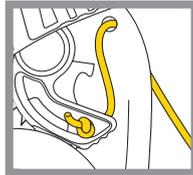
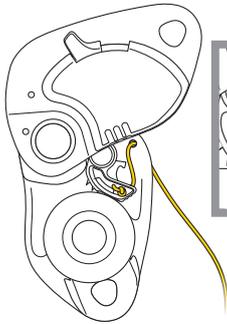
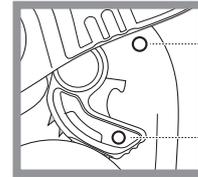
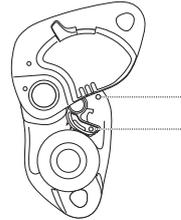
Manipulation from a distance using a cord



PRO TRAXION P51A

In certain work situations, manipulating the PRO TRAXION from a distance may be an advantage.

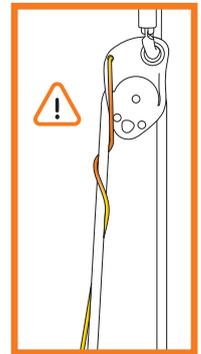
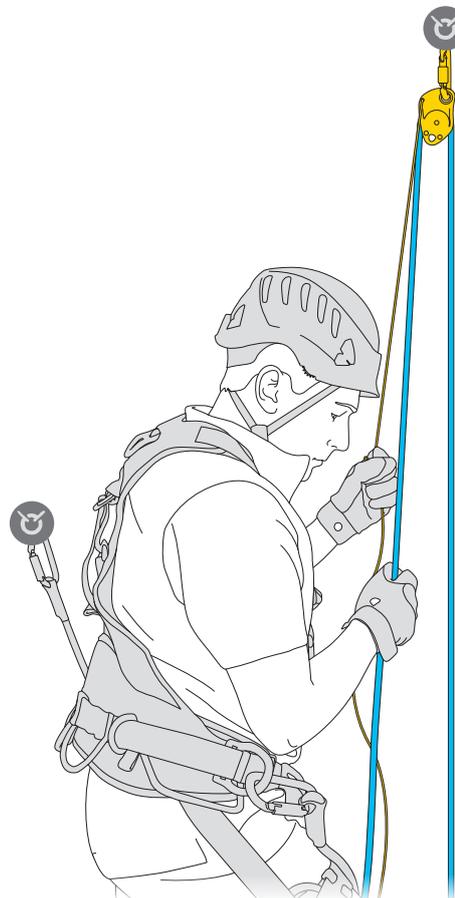
The fixed side plate and the cam are equipped with a hole for passing a cord that can be used to activate or deactivate the cam from a distance.



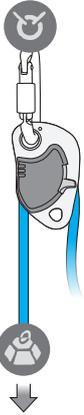
Pass the cord through the hole in the fixed side plate, then through the hole in the cam, and then tie a stopper knot.

Note that the end of the cord exiting the stopper knot must be very short, so as not to interfere with the functioning of the cam. There is a risk of it not locking if the cord gets caught between the cam and the rope.

This manipulation requires particular care and skill and is reserved for experts having performed a risk analysis of the situation. In order to keep visual control of the PRO TRAXION, Petzl recommends you limit the length of the cord to two meters maximum.



Additional information: static strength test



The following tests were done in labs; they were done on new ropes and devices, but it is impossible to recreate every scenario. Warning: we did not test every rope on the market; the results of these tests could be different with other types of rope.

The test values are given for information, to give an idea of the loads involved in such situations. Values recorded during tests with new ropes, certified to current European standards (EN 1891 semi-static ropes, EN 892 dynamic ropes), and with static ropes (non CE).

Warning: older ropes are generally weaker.

Testing done with slow pulls, until the first signs of rope damage appear.

Warning: the rope-damage values, recorded during the dynamic tests (falls/shock loads) are generally lower than with slow-pull: the frame-loaded ascenders are not designed to hold shock loads.

	Rope diameter	Beginning of sheath damage
Static test Slow-pull Semi-static rope EN 1891 type A	8 mm	4.9 kN
	8.5 mm	5.5 kN
	9 mm	5.4 to 5.9 kN
	10 mm	5.7 kN
	10.5 mm	5.4 to 6 kN
	11 mm	5.3 kN
	11.5 mm	6 kN
	12.5 mm	6.4 kN
	13 mm	6.4 kN

	Rope diameter	Beginning of sheath damage
Static test Slow-pull Dynamic rope EN 892	7.7 mm	5.1 kN
	9.1 mm	5.3 kN

	Rope diameter	Beginning of sheath damage
Static test Slow-pull Static rope (non CE)	9.5 mm	5.1 to 5.3 kN
	11 mm	6.2 to 6.4 kN
	12.5 mm	5.9 to 6.3 kN

EXPERT ONLY **DDD**

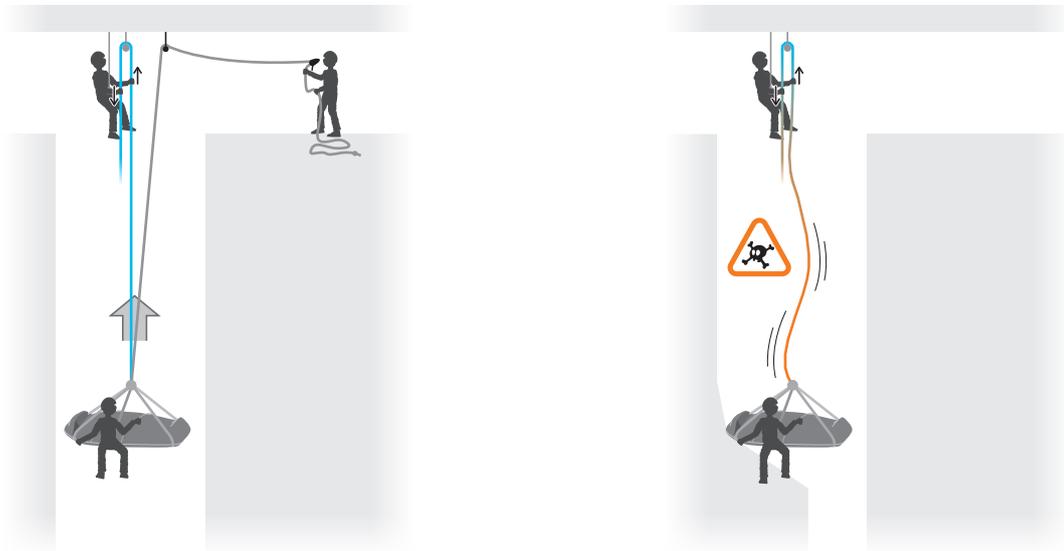
Working load in emergency situations

The PRO TRAXION is designed for a load of 140 kg, i.e. one person.

During rescue operations, simultaneous hauling of two people may be necessary. In this case, the load may approach or exceed 200 kg.

With such a load, the slightest dynamic overload can produce stresses approaching rope-tearing values (see table in Chapter 3). Precautions are therefore mandatory:

- Back-up belay the two people being hauled.
- Keep the rope constantly under tension; the slightest amount of slack creates a potential fall distance, and so is hazardous.



Compliance with requirements of the EN 12278 standard

The PRO TRAXION is certified to the EN 567 standard, mountaineering equipment, rope clamps.

The PRO TRAXION is not certified to the EN 12278 standard (pulleys), due to contradictions between the marking requirements of this standard, and those required by the rope clamp standards.

Even so, the certification body has performed the tests according to EN 12278 and stated that the PRO TRAXION complies with its requirements. Only the marking and documentation requirements have not been followed.