VERTICALITY - LIGHTING

2019

PETZL®

Access the inaccessible®

Window cleaning, Hamad International Airport, Qatar
© Jan Novak

Access the inaccessible®

In the realm of work at height, especially in areas related to progression on rope, performance and ergonomics are major issues. At Petzl, we maintain a constant contact with professionals, which allows us to create solutions to meet these needs. For 2019, we have focused our efforts on multiple product families. With the advent of the new VERTEX and STRATO helmets, Petzl introduces a new line available in different configurations (VENT, HI-VIZ...) with an extensive selection of accessories (visors, nametag holder, nape protector...). Also of note for rope access, the new I'D descenders with AUTO-LOCK function and the international versions of the AVAO and ASTRO harnesses. For tree care, the line received a major overhaul: new SEQUOIA harnesses with accessories, two versions of the ZIGZAG mechanical Prusik. Safety is a necessity for lighting as well, which is why we developed the PIXA Z1 headlamp for hazardous areas.

Happy reading.

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NEW 2019

Key new products for 2019

Helmets

New lines of VERTEX and STRATO helmets, accompanied by a range of entirely modular accessories that meet the varied needs of professionals.

page 73

Descenders

Self-braking I'D descenders now have an AUTO-LOCK function.

New ZIGZAG mechanical Prusiks come with a range o f accessories that allow even greater efficiency when moving through trees.

I'D S

I'D L

I'D EVAC

page 107

ZIGZAG

ZIGZAG PLUS

page 109

Harnesses

New SEQUOIA tree care harnesses offer improved comfort and great mobility. AVAO BOD / AVAO BOD FAST and ASTRO BOD FAST harnesses are now available in international versions.

SEQUOIA SRT

SEQUOIA

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AVAO BOD
AVAO BOD FAST
International versions

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ASTRO BOD FAST
international version

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Connector

New Bm'D carabiner for connection to equipment such as descenders or positioning lanyards

Bm'D

page 100

Headlamp

Compact, durable PIXA Z1 headlamp for use in ATEX hazardous areas, suitable for proximity lighting, movement and long-range vision.

PIXA Z1

page 173

Access the inaccessible®

Petzl's mission is to create innovative tools and services that allow men and women to progress, position, and protect themselves in vertical environments, as well as to light their way in the dark. We continually look for the best solutions for user needs in terms of performance, ergonomics, comfort, and reliability. The demands and the commitment of users are what guide our approach to supporting them in their pursuit of the inaccessible. We have stood by their side for over 40 years.

Paul Petzl

Petzl: a name, its values

The Petzl signature on a product has always represented the commitment of the Petzl family to produce the best tools for its users. The adventure began with Fernand Petzl's passion for caving, a passion to which he dedicated his talents as a craftsman. Petzl expertise began to grow with the design and crafting of solutions for ascending, descending, belaying and moving about in the dark. In 1970, the first "Fernand Petzl" brand products were produced in a workshop in Saint-Nazaire-Les Eymes, Isère, France. The Petzl company was created in 1975 and has grown into an international company that now employs over 800 people. Since its beginnings, it has preserved its family legacy and values: remaining independent and in control of its own decisions, developing a long-term vision, prioritizing people above all, and embracing its commitment to quality. Today, a family council, with Paul Petzl as president, ensures the continuity of the company.

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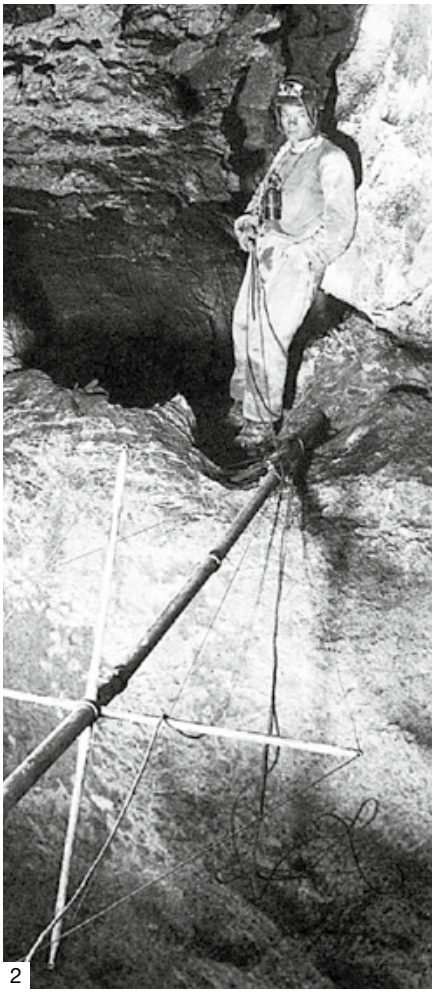

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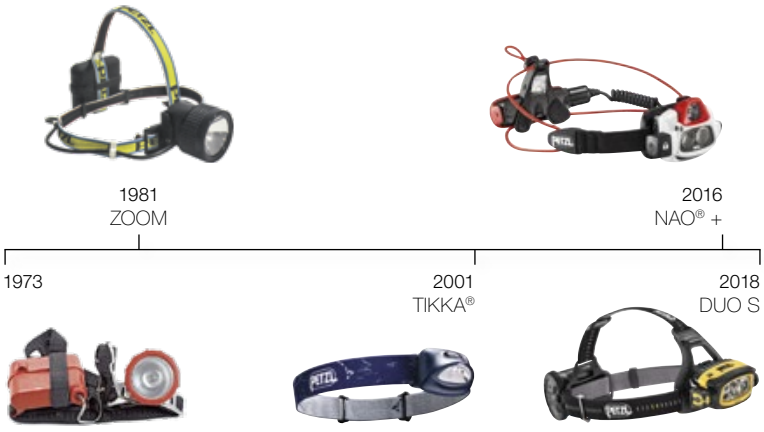
(1) 2017: Paul Petzl and family
(2) 1940: Fernand Petzl in the Dent de Crolles, France
(3) 1970: Fernand Petzl in his workshop
(4) The Petzl product signature

A pioneering business

To attain the inaccessible, you need to know how to reinvent yourself. Since the development of the first rope ascenders and descenders, which laid the foundation for rope progression, Petzl has been at the forefront of change and the emergence of new techniques. Headlamp lighting, belaying, rescue, ice climbing, glacier travel... In these and other fields, Petzl's innovations have allowed equipment to evolve and practices to be reinvented. As proof of this dynamic activity, 700 patents have been registered since 1970.
These advances always result from a dialogue with the user, in order to understand his/her expectations and to provide the elements s/he needs. Petzl has always remained true to this method.
Petzl's philosophy for design and production is also based on accelerating change, transforming, and innovating in order to provide sports enthusiasts and professionals with the quality products they demand. Testing tower, experimentation center, individual inspections, LEAN manufacturing process - Petzl was a pioneer in all of these innovations.



1936: Fernand Petzl starts exploring the Dent de Crolles, France, and invents the tools he requires

1968: Our first rope ascenders and descenders (BASIC, SIMPLE) under the name Produits Fernand Petzl (Fernand Petzl Products)

1973: First Petzl mountaineering headlamp is developed

1983: First Petzl harnesses

1991: GRIGRI®, first belay device with assisted braking

1998: TIBLOC®, ultra-compact rope clamp

2001: First TIKKA LED headlamp®

2004: ASAP® mobile fall arrester

2005: Petzl professional helmets

2006: EXO® personal escape system for New York City firefighters

2012: NAO® headlamp with REACTIVE LIGHTING technology

2013: SIROCCO helmet and ZIGZAG® mechanical Prusik for tree care

2015: SITTA harness for climbing and technical mountaineering

2017: GRIGRI® + belay device

2018: New DUO headlamps with FACE2FACE anti-glare technology

Education, communication

From the beginning, we have sought to provide technical answers to our users' needs. The answers come in the form of product design, but also in the sharing of our experience with verticality. This experience can be found in the technical notices for products, and in the technical advice in our catalogs and at Petzl.com

The Petzl Solutions department is dedicated to education, through the sharing of our technical expertise. Petzl Solutions provides technical education modules and makes them available through a network of Petzl Technical Institutes around the world.

In order to share our values, we collaborate with top athletes in different disciplines. Mountaineers, climbers, trail runners, cavers... they are the ambassadors of our company and of the passion for the inaccessible. Many are involved with the fine-tuning of our products. See them at Petzl events and through their stories on Petzl.com and on our social media platforms.

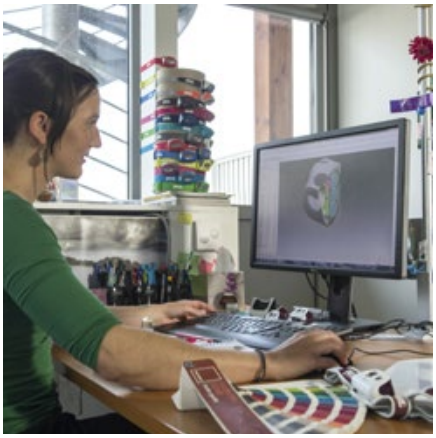
© Lafouche

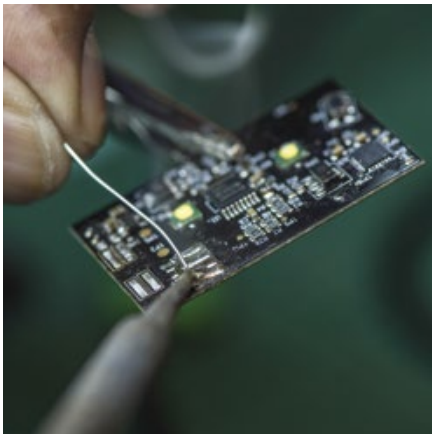
Expertise and dedication to quality

For over 40 years, Petzl has built on its expertise in the design and manufacture of products for verticality and lighting. Today, Petzl designs, produces and distributes millions of products around the world. Building a Petzl product requires expertise in a wide range of materials - textiles, metals, plastics - as well as in specific technologies: plastics processing, sewing, injection molding, forging, LEDs, electronics... This expertise allows us to design equipment that meets both the needs of users and the technical requirements for its use: resistance to impacts, abrasion, extreme temperatures...

Design

The Petzl research department in Crolles, France, integrates all the fields related to product design: mechanical, textile, electronic, optical, computing and prototyping. Starting at the design and prototype phases, the reliability of the product and user safety are continually evaluated with a strong focus on risks to the user.





© Pascal Tournaire

Testing

In Crolles, Petzl has labs dedicated to testing verticality products and headlamps. These tests often go above and beyond the required standards to help validate product reliability and user safety. Examples of tests: dynamic fall tests, impact resistance, cyclic testing, performance, headlamp beam quality and burn times. They are complemented by testing in the field for ergonomics and reliability.

Production and inspection

Petzl's production sites are based in Crolles, Eybens, and Rotherens, France, and in Rawang, Malaysia. This production infrastructure is complemented by long-term partnerships with key suppliers in Europe and Asia. Our purchasing and quality control teams work closely with suppliers to guarantee a standard of product reliability and quality that meets our strict requirements. During the manufacturing phase, quality control is present at every step of the production chain. It combines automated and human inspections.

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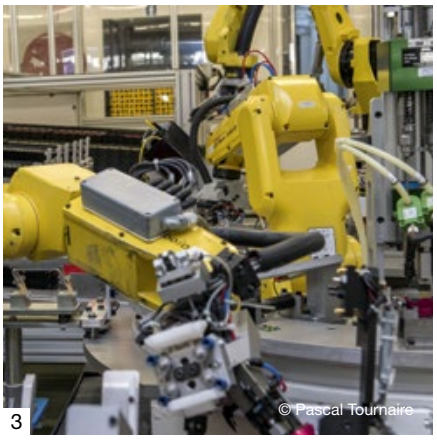
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© Pascal Tournaire

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(1) Head office and manufacturing in Crolles
(2) Manufacturing in Rotherens, Eybens and Rawang
(3) Automated production systems
(4) Textile preparation

Distribution

Petzl distributes products to more than fifty countries via a distribution network, subsidiaries and agents around the world.

Petzl subsidiaries and agents:
Austria, Benelux, Denmark, France, Germany, Italy, Spain, Switzerland, UK, USA

Petzl distributors

Providing solutions for users

Petzl serves communities of users committed to their activities. Our goals: to assist them with products they can rely on, and to offer them our expertise. Petzl is active in the following fields:

- outdoor activities: climbing, mountaineering, ski mountaineering, trail running, via ferrata, canyoning...
- work at height: rope access, tree care, energy and networks, framing and roofing...
- rescue: technical rescue, self-rescue, evacuation on mechanical lifts
- personal lighting for professionals, for maintenance, for industrial worksites
- equipment for tactical operations units
- equipment for adventure parks

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(1) Climbing on granite on the Mont-Blanc massif, France
(2) Trail running, Italy
(3) Tactical special forces, USA
(4) Rescue exercise, France
(5) London Eye, UK

Finding new directions

Climbing towards a summit or progressing in the vertical world gives rise to lasting passions that help women and men grow, thrive and dream. For over 10 years, the Petzl Foundation's mission has been to support or initiate projects of public interest through its activities in the mountain and vertical spheres, projects that help bring balance to humankind's place in its natural, cultural, and economic environments.

The Petzl Foundation:

- encouraging learning and risk management to avoid accidents
- promoting the preservation of hard-to-access ecosystems
- contributing to a better understanding of current practices and their environments

In the depths of the Masaya volcano

In 2015, a lake of lava appeared in the Masaya volcano in Nicaragua. The proximity of a vast expanse of lava offered researchers the chance to study the gases emitted by the volcano, from their generation to their dissipation in the environment.

In July 2017, the International Volcano Monitoring Fund and the GeoArc Foundation association, experts in difficult-access scientific expeditions, assembled a multi-disciplinary team of researchers and technicians who are skilled in work at height. Together, they designed and installed an aerial system to deploy sensors into the depths of the Masaya volcano's crater. 1.2 km of rope was required to set up an aerial tram spanning the 500-meter-wide crater in order to take samples at a depth of 400 meters. Using this device, sensors were positioned in the acid plume above the lava lake. Additional sensors, below the vent and around the sides of the volcano, yielded a profile that precisely evaluates the concentrations of toxic gases. This profile will provide a better measurement of the gases' impact on the surrounding villages and a large part of Nicaragua.

Supported partners: International Volcano Monitoring Fund and the GeoArc Foundation
Location: Nicaragua
Support: 20,300 € in 2017

Read about all Petzl Foundation projects at www.fondation-petzl.org

© Coll IVMF

Window cleaning on the Elbphilharmonie building, Hamburg, Germany © Petzl - vuedici.org - 3Ker Ras Group/ABO Glasreingung - Elbphilharmonie

Petzl's expertise in vertical terrain is expressed by its line of products specifically designed for work at height and rescue professionals. These products address all of the issues faced by professionals every day: repeated and intensive use of equipment, weather, diverse terrain... They maximize usability, simplicity and ease of use, while meeting the highest quality standard.

Equipment inspection and individual identification code

To ensure that your equipment is in good condition throughout its useful lifetime, it is necessary to inspect it regularly. Depending on the product's date of manufacture, the individual identification code can be structured in two ways, with 11 or 13 characters.

For more information, please see www.petzl.com

Special products in black

Certain products are also available in black; they are designed for professions where stealth is essential.

Product customization and adaptation

The Petzl Customization service is for professionals who have specific needs, outside of the standard product offering: product marking and adaptation...

For more information: contact your Petzl distributor.

General principles for work at height

Warning

- You must have understood and retained the information from your products' Instructions for Use to be able to apply the techniques presented in this document
- Learning appropriate techniques and methods of protection is your own responsibility. Petzl solutions are given for information only, with no guarantee of their effectiveness in your specific working situation. The relevance of these solutions varies by context, so always do your own risk analysis in the field
- Mastering the techniques presented here requires specific training and practice; consult a specialized organization for all training activities

General information on falls

The risk of falling is a key concept to master when working at height. The severity of a fall depends on independent factors:

- **The weight of the user, including equipment:**

The greater the weight, the more energy to be dissipated during the fall.

- **The length of the fall:**

The longer the fall, the more energy to be dissipated during the fall. The risk of hitting an obstacle is also greater.

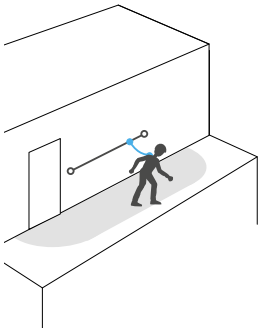
- **The position relative to the anchor:**

When the worker moves above his/her anchor, the severity of the potential fall increases. The fall factor concept is sometimes used to describe the worker's position relative to the anchor and the severity of the fall. This concept applies to climbing, restraint, or work positioning situations, when a dynamic rope lanyard is used.

Precautions for the type of system used:
The Instructions for Use specify the limitations for use of equipment, particularly in terms of fall distance and the worker's position relative to the anchor.

Restraint

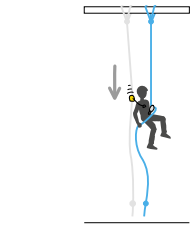
A restraint system limits the work zone, keeping the worker from entering an area that may present a risk of falling. This system is not designed to arrest a fall from height.

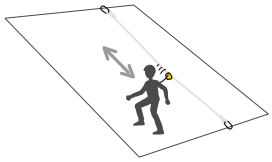


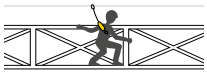
Fall arrest

The fall arrest system is a belay system that is independent of the means of progression or work positioning.

The fall arrest system prevents the user from falling to the ground in case of a fall. Its role is to arrest the fall while limiting the impact force experienced by the user. It must therefore be used with enough clearance to allow for a free fall.



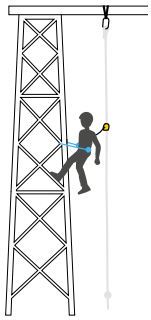




Work positioning

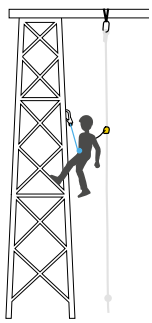
A work positioning system supports the user and allows him/her to be precisely positioned with weight on his/her feet. This system is not designed to arrest a fall; the user must keep his/her body weight on the positioning system.

The work positioning system must be supplemented with a fall arrest system.



Suspension

The user is working in suspension when s/he no longer has weight on his/her feet, but is supported primarily by the harness. The load is thus shared between the waistbelt and the leg loops/seat.



Impact force

A fall arrest system allows the impact force experienced by the user to be limited.

It is typically composed of an energy absorber that tears in order to limit the forces over a specific stopping distance.

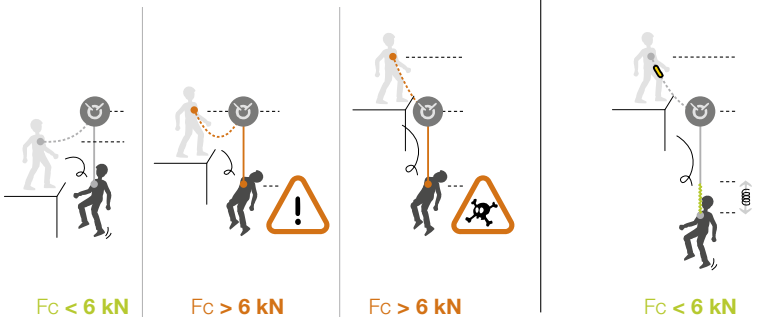
A dynamic rope lanyard has a low capacity for energy absorption. Its use requires great precautions: reducing the potential fall distance and staying in a work position below the anchor.

A webbing lanyard or a cable, with no capacity for energy absorption, can not be used to arrest a fall.

Example for 80 kg

JANE or PROGRESS lanyard without energy absorber

Lanyard with ABSORBICA-I or Y energy absorber



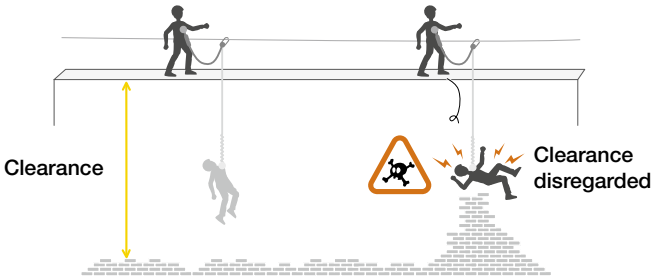
Clearance

Clearance is the minimum amount of clear space below the user that prevents the user from hitting an obstacle in case of a fall.

Clearance takes into account:
- the user's weight
- the length of the fall
- the tearing length of the energy absorber
- the average height of the user
- a safety margin of 1 meter

Clearance value

The tearing length of the energy absorber, depending on the the fall, can only be known based on the manufacturer's information; this is why a clearance estimate is suggested in the Instructions for use for each fall arrest device.



To learn more about calculating clearance, see the technical information available at Petzl.com

PETZL.COM

Anticipating the means of rapid evacuation

• Limiting the effects of inert suspension:

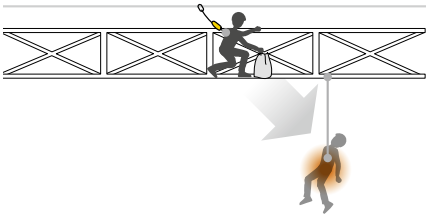
In case of a fall where the worker loses consciousness or is incapacitated, inert suspension in the harness presents a mortal danger requiring an urgent response. Work teams must be equipped and trained to quickly evacuate an injured team member.

• Evacuating a victim without assistance:

Procedures for evacuating workers should be determined whenever a new worksite is established.

Releasable systems can be created during installation of working ropes to allow evacuation from below.

Working alone must be prohibited: a worker may find him/herself alone at height, but at least one person trained in evacuations should be present and equipped on site.



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Rope access and confined space

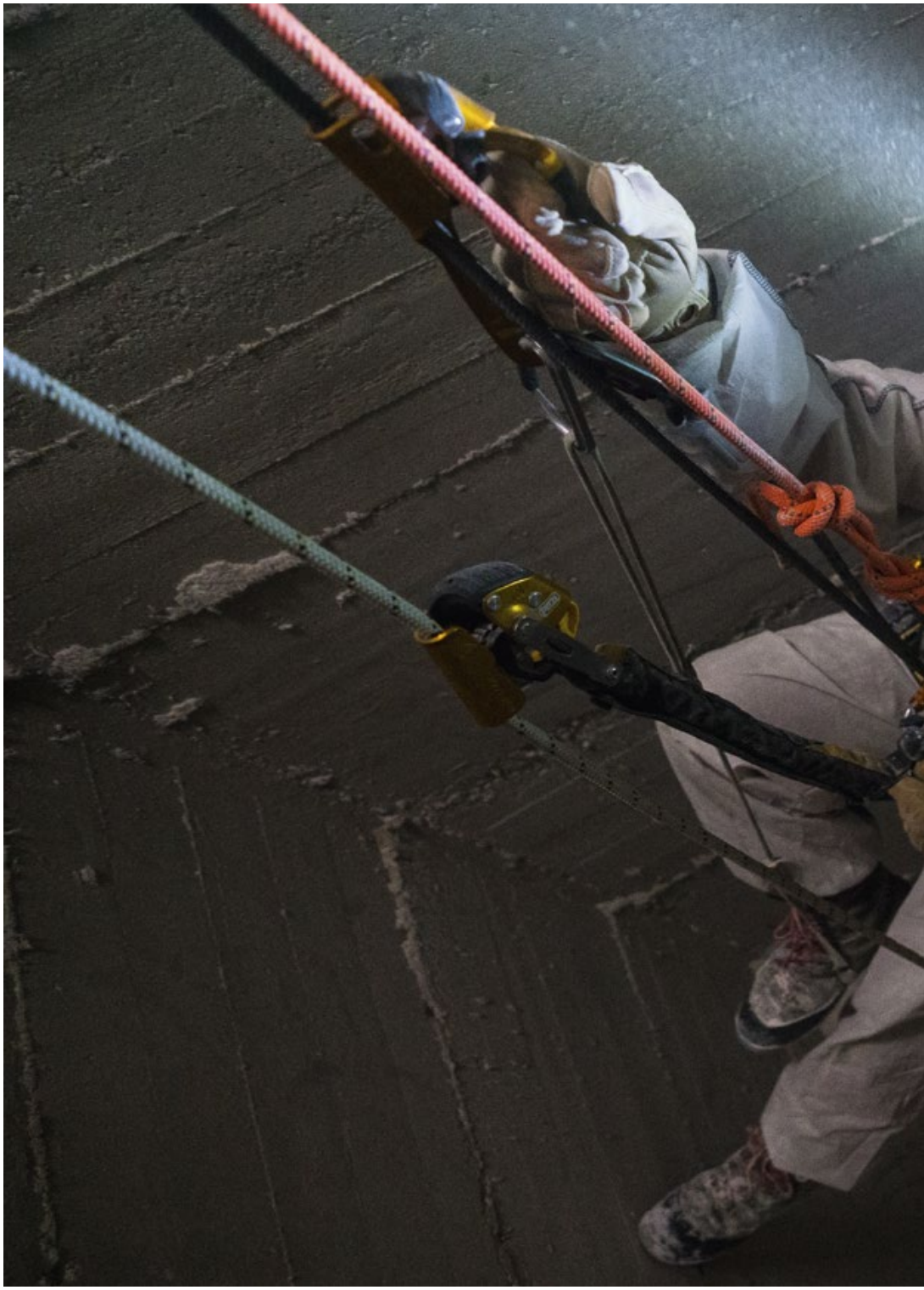
Rope access work situations often involve environments at significant height. They can be inside or outside, even confined, and are not suited for the use of collective protection. Work done in confined spaces carries additional difficulties related to the lack of space, and to the lack of means of autonomous progression.

Examples of operations:

- placement of rockfall or stabilization nets over a road
- structural inspection (bridge pilings...)
- exterior window cleaning on skyscrapers
- inspection of tanks

Technical specifics:

- the work area is accessed with ropes by specialized workers trained in rope access techniques
- access from above is preferred as it is safer and simpler to set up



I'D S and Open auxiliary brake

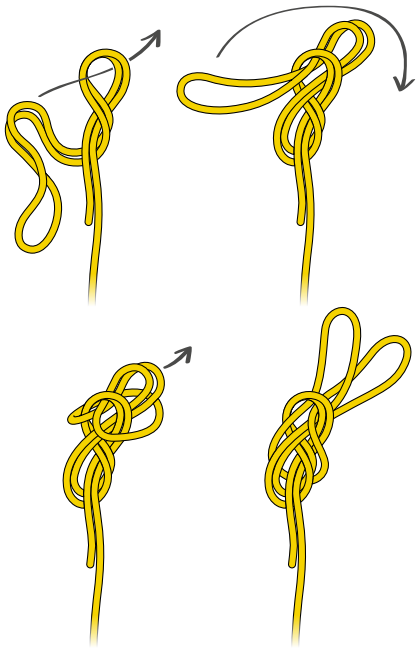
The self-braking I'D S descender is designed for work at height and rope access work. It has an ergonomic handle that allows convenient descent control. The integrated anti-panic function and anti-error catch limit the risk of an accident due to user error. The AUTO-LOCK system allows users to easily position themselves at the work station without having to manipulate the handle or tie off the device. The open auxiliary brake may be used to increase braking friction, depending on the load and on the rope diameter.

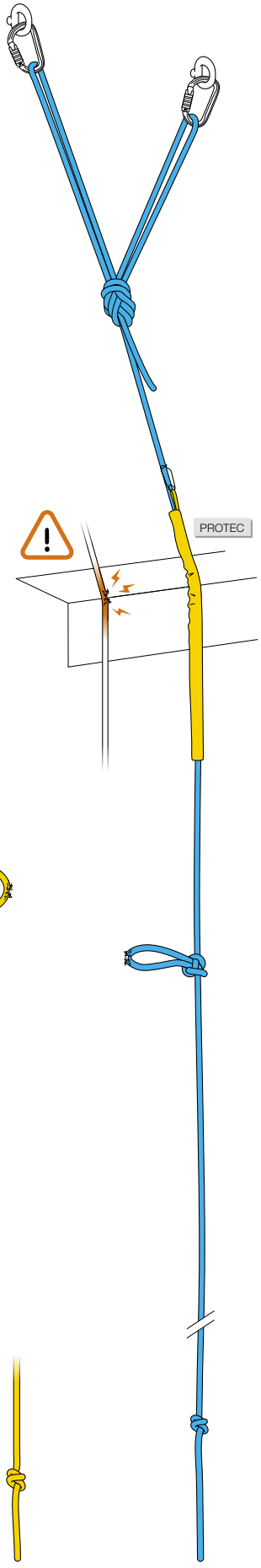
Inspection and maintenance inside a chalk silo. © Petzl - vuedici.org - CAN Industrie - LafargeHolcim

Installing ropes

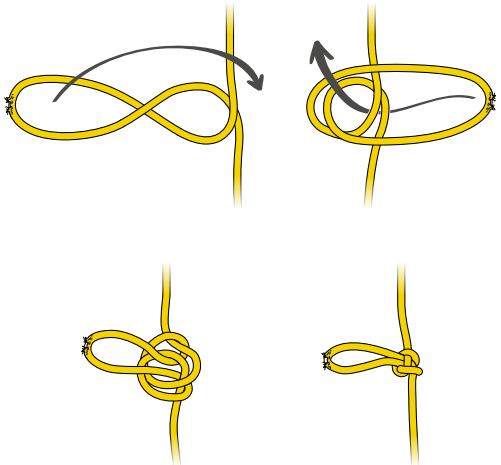
Load-sharing anchors with the rope.

Bunny knot (for load-sharing anchors).

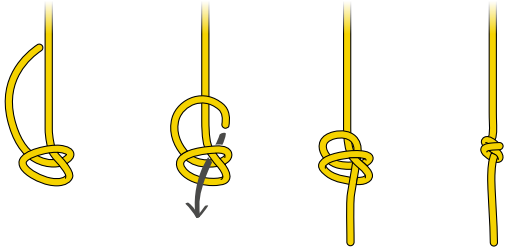




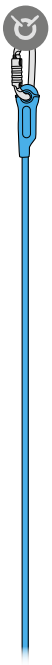
Special case: isolate a section
of damaged rope with a butterfly knot.



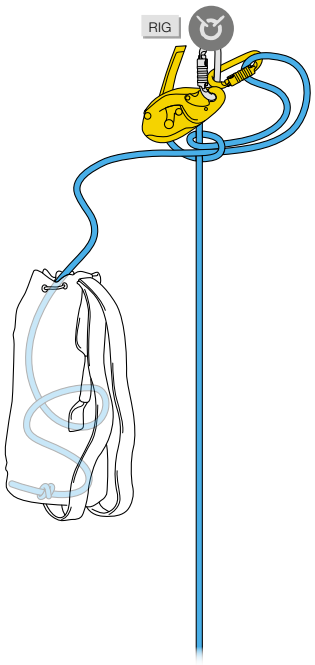
Double overhand knot
(for a stopper knot at the end of the rope).



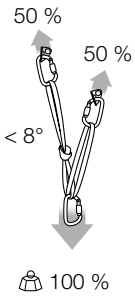
Fixed anchor.

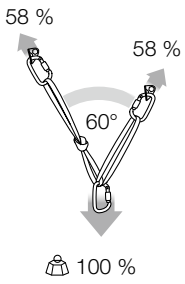


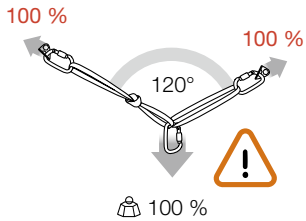
Releasable anchor.



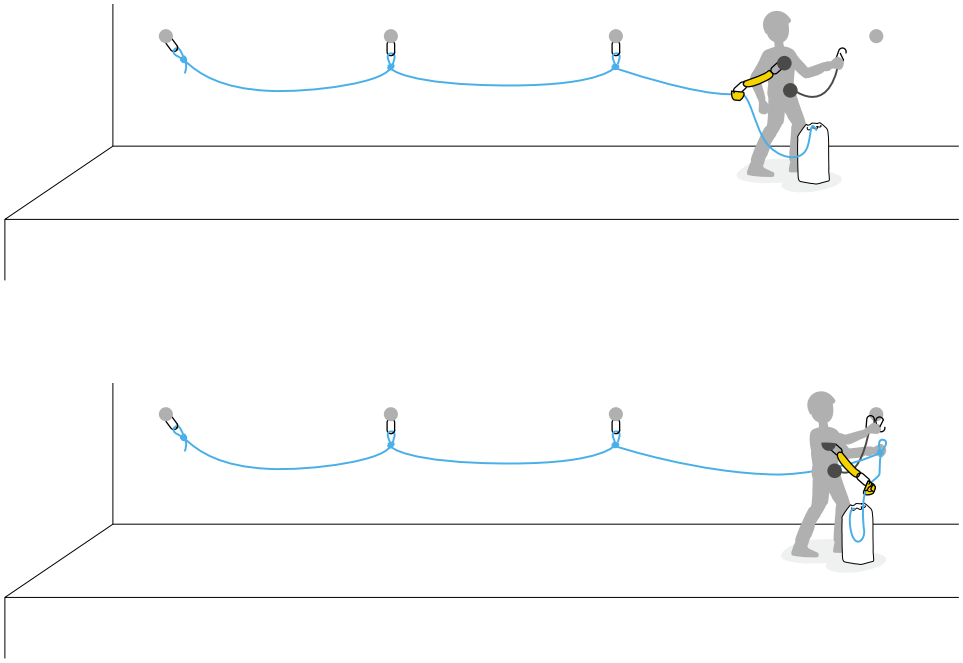
Load-sharing anchors with a sling:
effect of the angle on a load-sharing anchor.







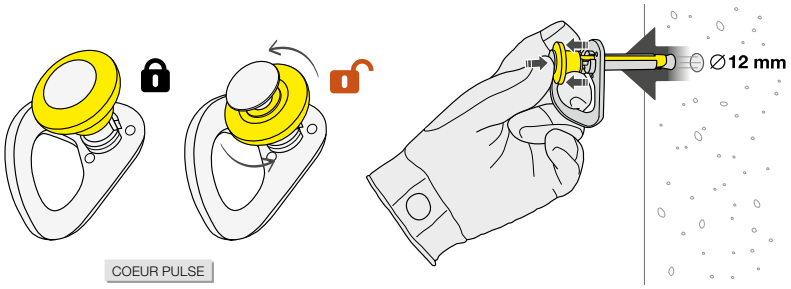
Installing a lifeline with the ASAP mobile fall arrester.



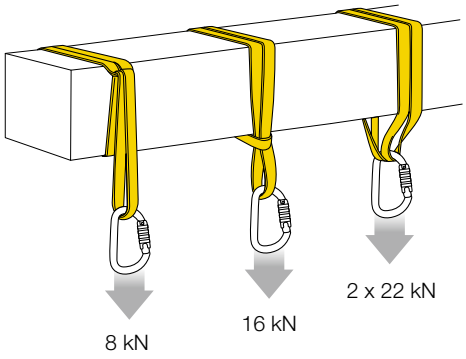
To set up a lifeline with the ASAP mobile fall arrester, see technical information available at Petzl.com

PETZL.COM

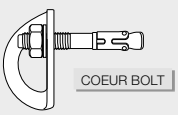
Temporary anchor.



Anchor on a beam.

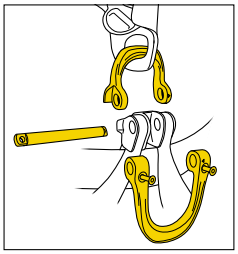


Choice of anchor material based on the environment.

 COEUR BOLT	STEEL	STAINLESS	HCR
Inside or temporary use	★★★	★	★
Outside	⚠	★★★	★
Ultra-corrosive environment	☠	☠	★★★

Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Gated ventral attachment point on ASTRO harnesses

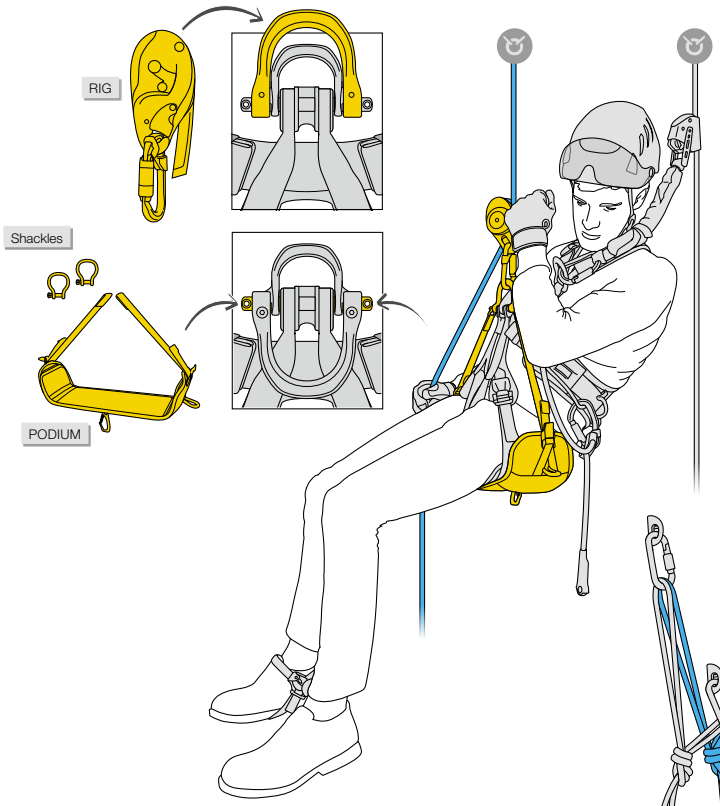


The ventral attachment point on ASTRO harnesses is gated for optimal integration of equipment.

Descent

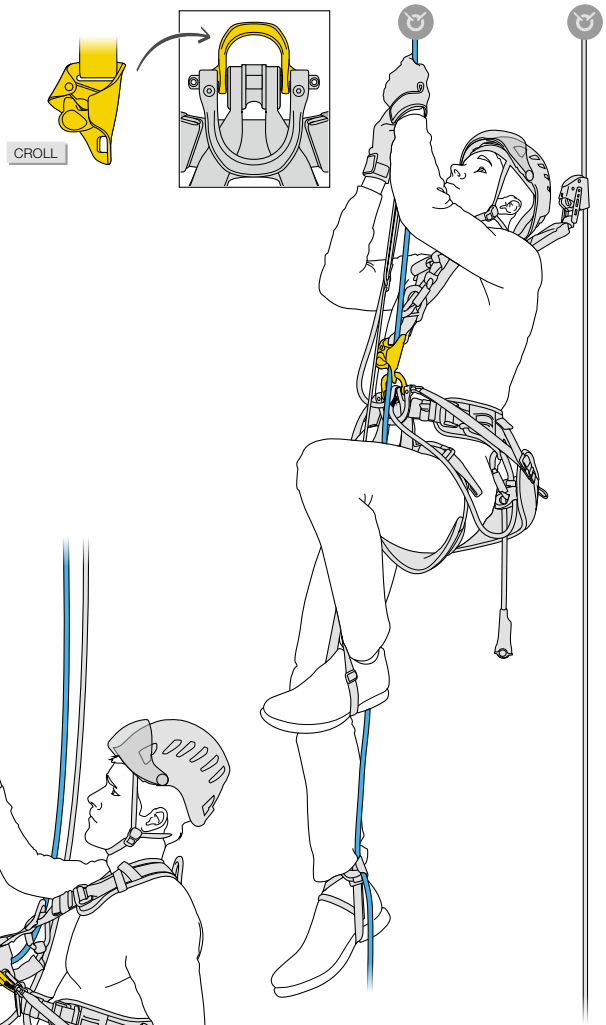
The RIG descender attaches to the large metal D.

The PODIUM seat connects to the pin with shackles, allowing a direct connection to the descender while preserving ventral attachment point mobility.



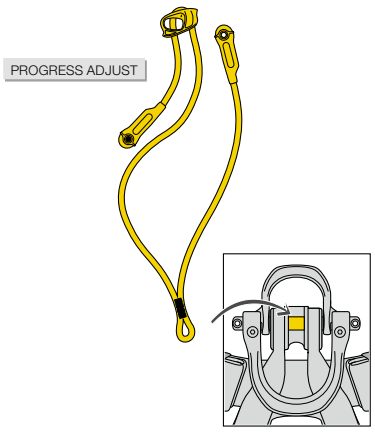
Ascent

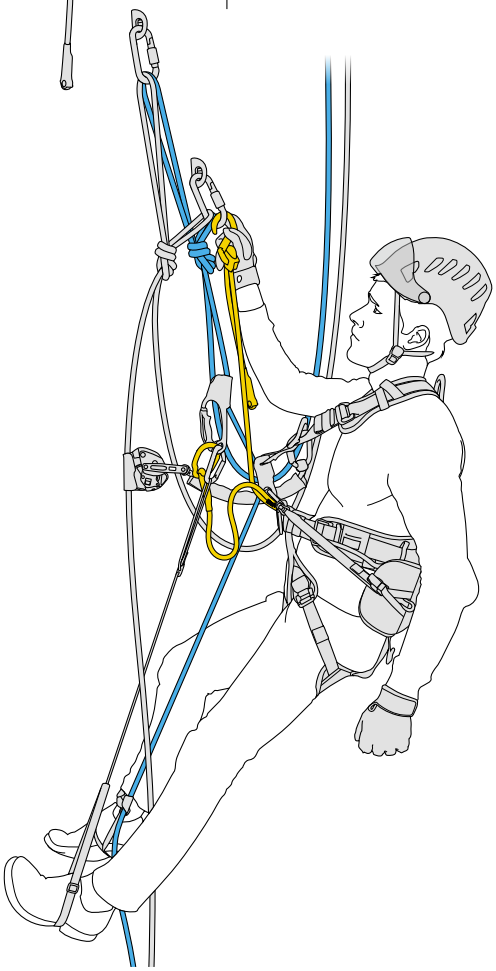
The CROLL ventral rope clamp connects to the small metal D for greater efficiency on rope ascents.



Passing intermediate anchors

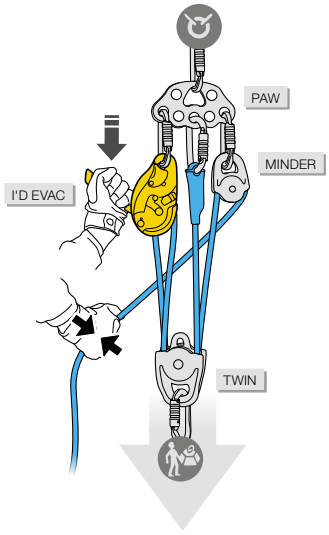
The PROGRESS lanyard connects directly to the pin, removing the need for a connector.



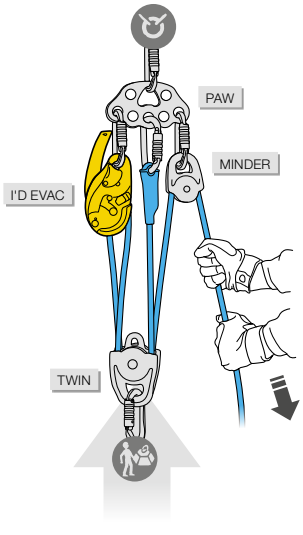


1. Combined lowering/raising system

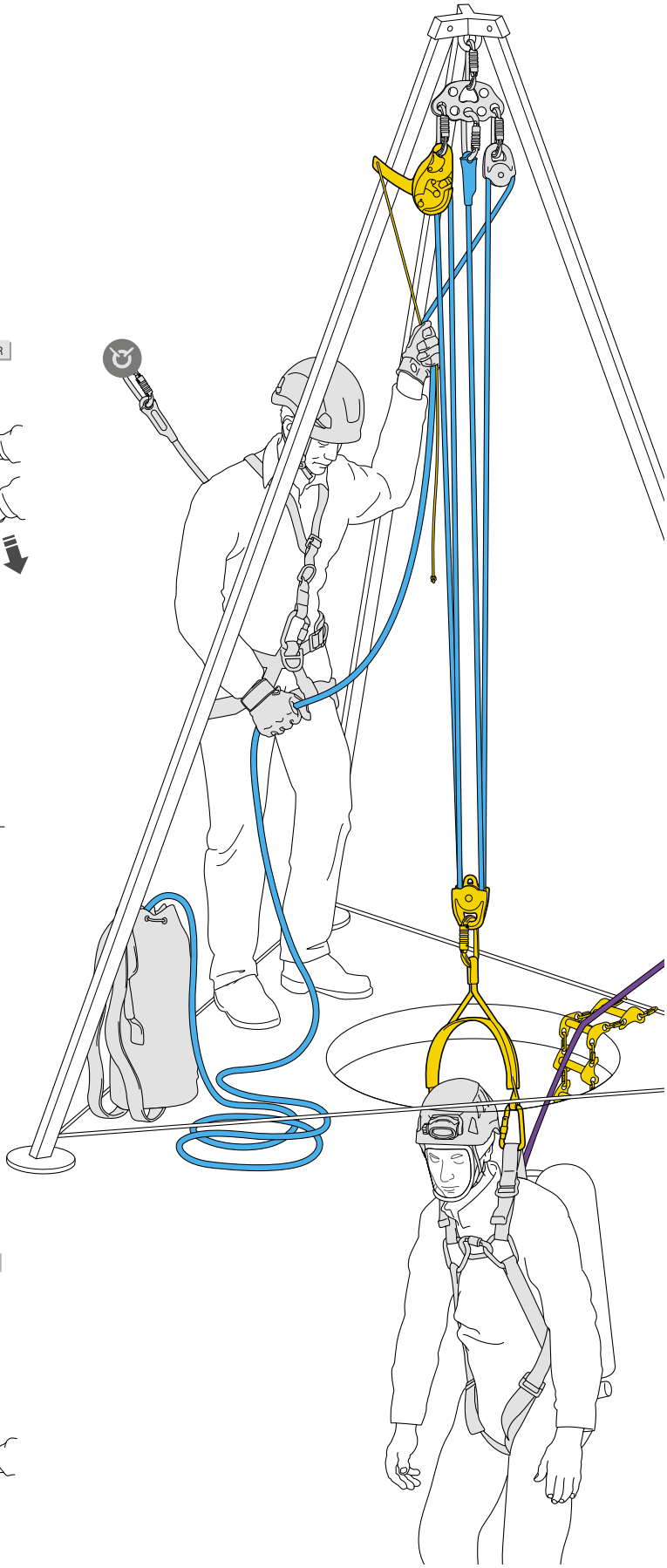
- Advantage: quick transitions between modes (lowering/raising)
- Disadvantage: rope length is four times the travel distance



Descent

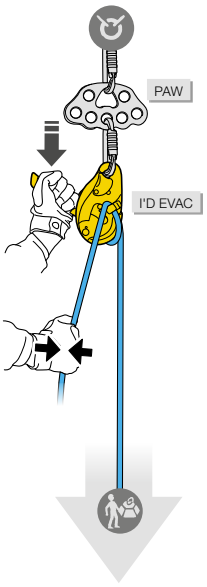


Ascent

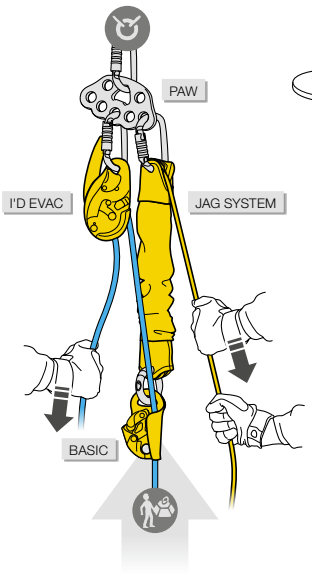


2. Independent lowering/raising systems

- Advantage: the length of the rope equals the travel distance
- Disadvantage: rigging is required to transition between lowering and raising



Descent



Ascent

Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Tree care

Not all tree work can be done using exterior means such as elevated platforms or ladders. In this case, to move and work, the arborist uses rope progression techniques.

Examples of operations:

• ornamental tree trimming, to adapt the tree to its environment or to change its overall aesthetic
• maintenance trimming to remove dead wood and dying branches
• tree removal (progressive cutting of the trunk from the top) if diseased or presenting a hazard...

Technical specifics:

• access from the base of the tree generally starts by throwing a weighted bag with line attached. This line is used to install the access rope on an anchor up in the tree
• while moving about on the branches, the arborist keeps his/her weight on the work rope, for greater stability and to reduce the potential fall distance
• when using any cutting tool (hand saw, chainsaw), the arborist must use two independent belay systems

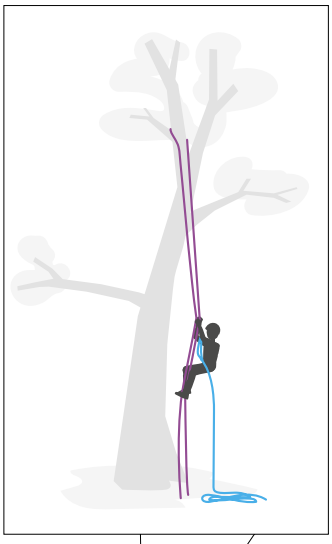
NEW 2019

ZIGZAG PLUS and CHICANE

The ZIGZAG PLUS mechanical Prusik allows the user to move around efficiently in a tree. The friction chain provides precision and fluidity when moving around. The pulley allows the slack to be taken up easily. Can be used on either doubled ropes or a single rope, providing great versatility. The lower attachment hole with high-efficiency swivel ensures stable and correct positioning of the mechanical Prusik and optimal rope glide through the device. The CHICANE auxiliary braking device allows ZIGZAG and ZIGZAG PLUS mechanical Prusiks to be used on single ropes. It provides continuous additional friction on descents.

Eucalyptus trimming, Praia de Arneles, Galicia, Spain © Petzl - Marc Daviet - Cerne Arboricultura

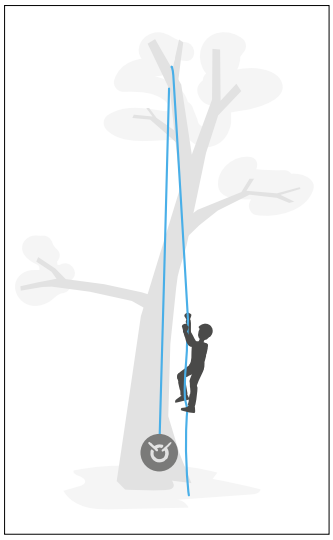
Tree access



Doubled rope ascent technique

The arborist ascends the access rope (purple).

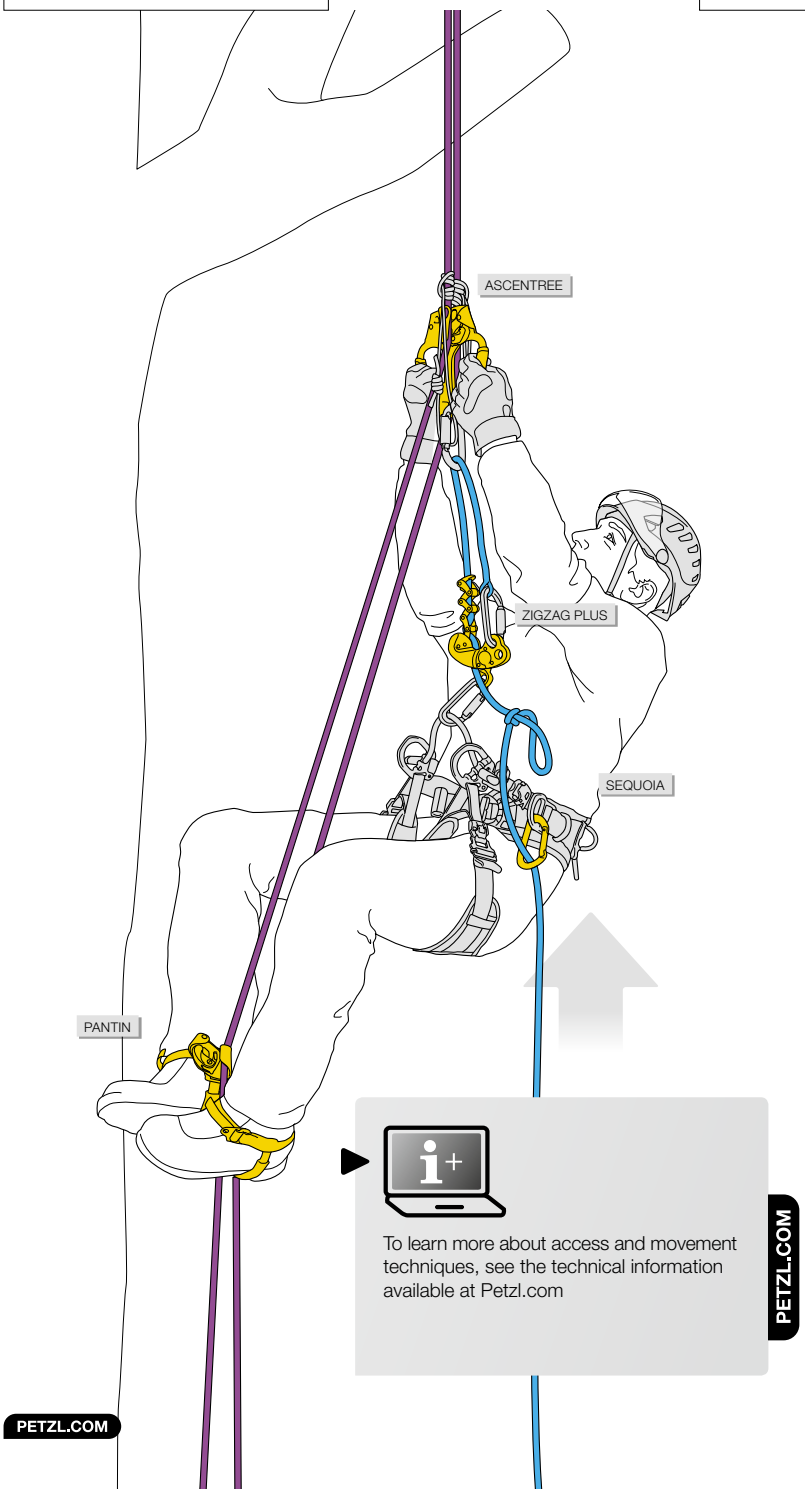
In case of a hornet attack (or other problem) s/he can self-evacuate with the work rope (blue). A mule knot, or releasable knot, secures the ZIGZAG. This versatile ascent technique is adaptable to many situations and allows an access rope to be available during work.

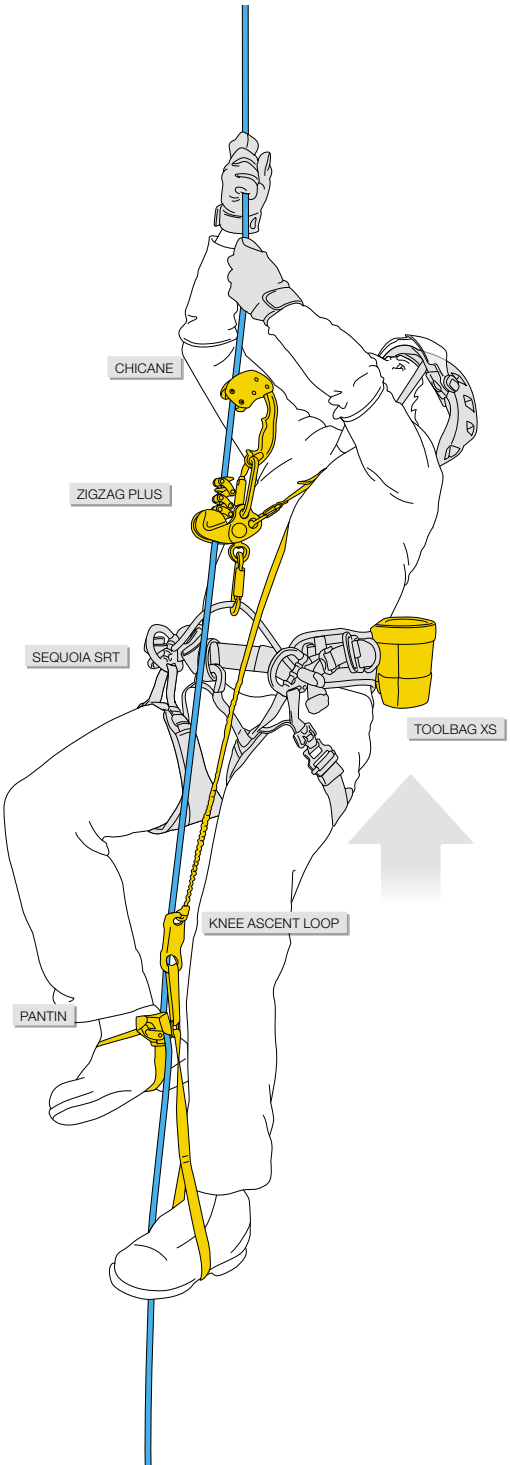


Single rope ascent technique

The access rope is attached to the base of the tree and runs through an appropriate anchor in the tree. It will also be used for work. On single rope, the ZIGZAG must only be used with the CHICANE.

This technique allows for rapid rescue and efficient climbing with the KNEE ASCENT knee ascender.





To learn more about access and movement techniques, see the technical information available at Petzl.com

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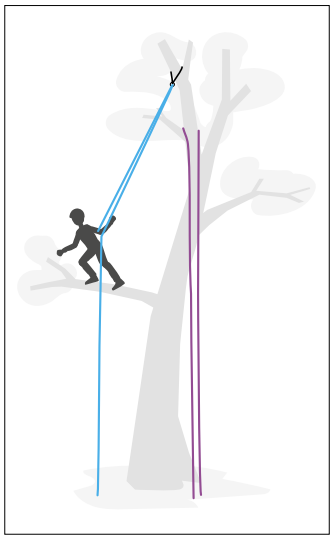
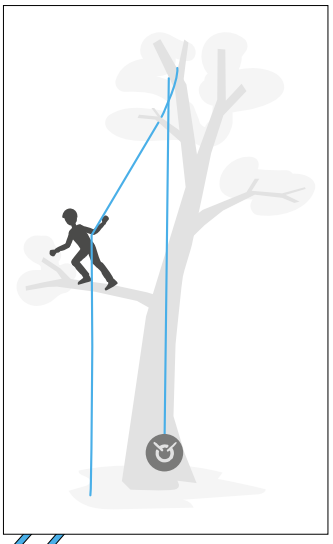
Movement within the tree



Movement on doubled rope

The work rope is set up doubled through a false crotch, on a suitable anchor near the top of the tree.

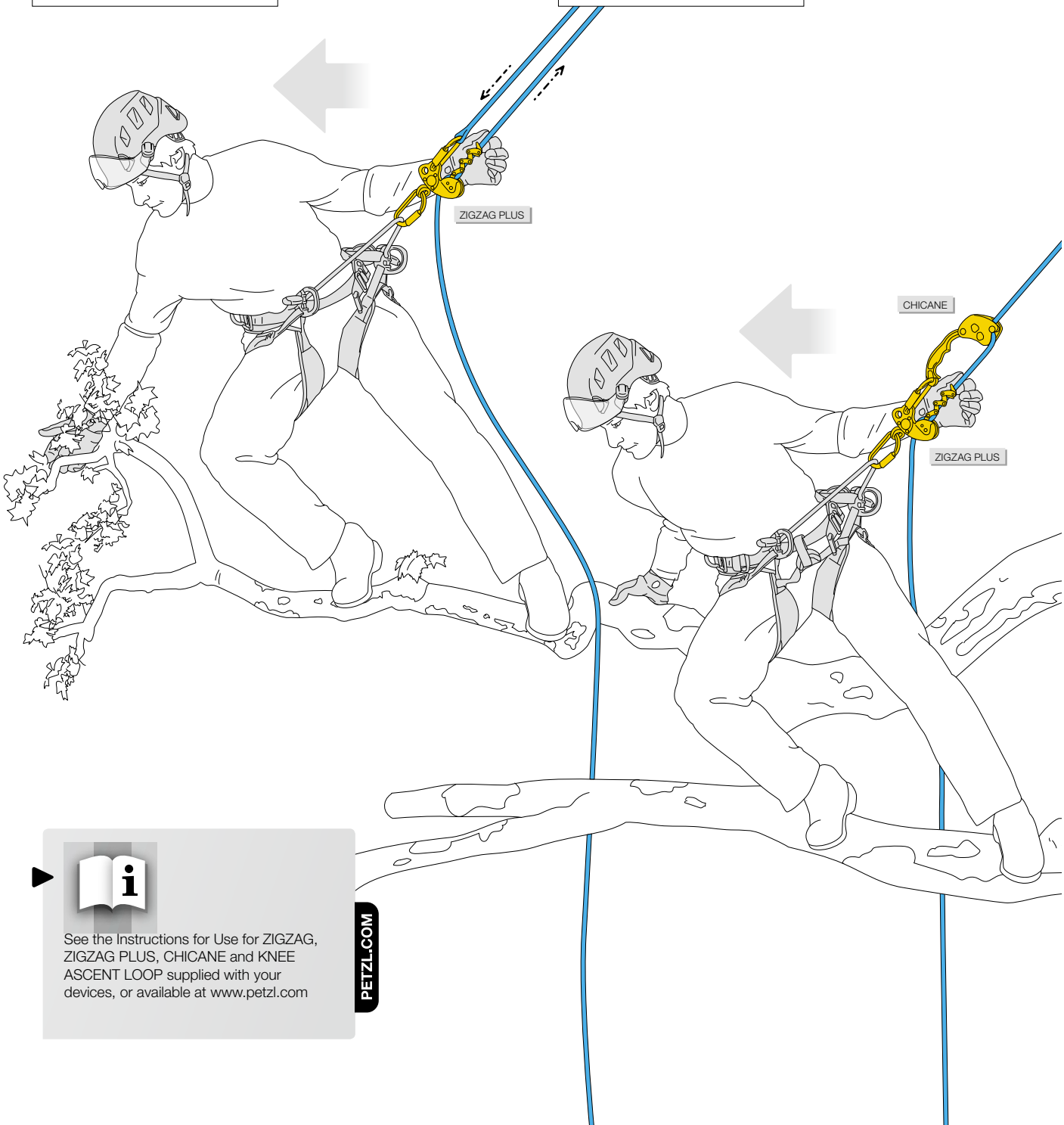
This technique allows for easy travel in any direction and provides the arborist with good support when limb walking.



Movement on single rope

The rope setup does not change between access and work; if the top anchor is reliable and verified, the arborist does not necessarily need to climb to the top and can go directly to the work station.

The rope does not run during movement, the arborist can thus move anywhere in the tree with no loss of efficiency.



See the Instructions for Use for ZIGZAG, ZIGZAG PLUS, CHICANE and KNEE ASCENT LOOP supplied with your devices, or available at www.petzl.com

PETZL.COM

Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Energy and networks

These fields are characterized by structures such as towers, antennas and windmills.
The modes of progression are varied, and directly related to the structure itself.

Examples of operations:

- work on high tension lines
- tower construction
- maintenance operations in wind farms...

Technical specifics:

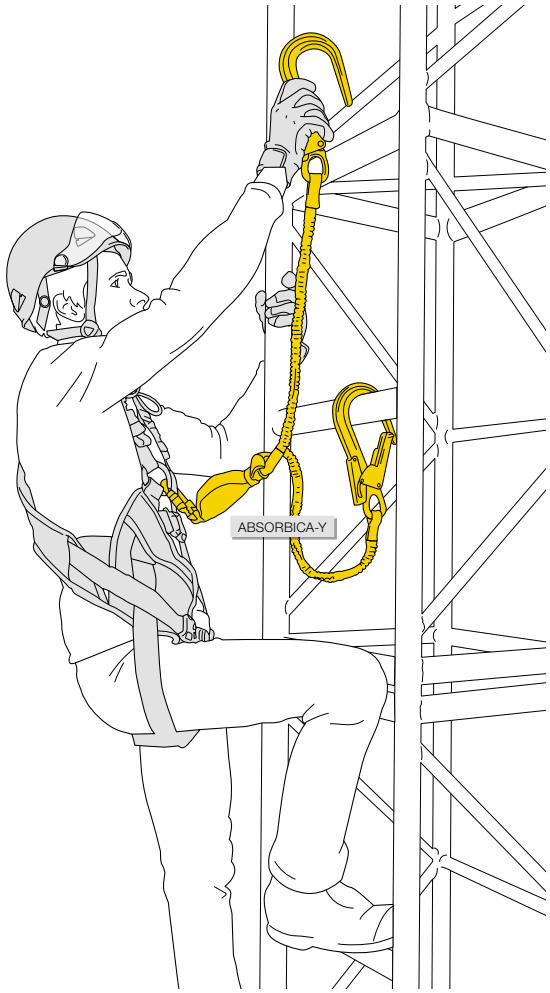
- the user generally progresses using lifeline, cable or rail type permanent fall arrest systems
- lacking these, the user must ensure his/her own safety using personal protective equipment: energy-absorbing lanyard or mobile fall arrester on rope

VERTEX VENT HI-VIZ and VIZIR

The VERTEX VENT HI-VIZ helmet is very comfortable, thanks to its six-point textile suspension and CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. It has ventilation holes with sliding shutters to allow airflow through the helmet. The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night. The VIZIR eye shield protects the eyes against projectile hazards. It is easy to install with the EASYCLIP attachment system.

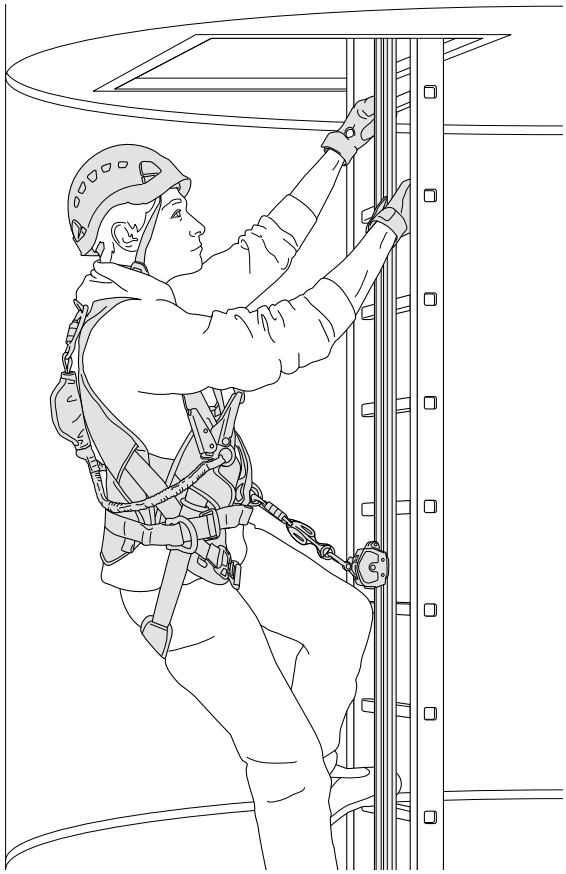
Pylone inspection and maintenance © Petzl - vuedici.org - Profil - TDF

Backed-up ascent using a double lanyard with integrated energy absorber



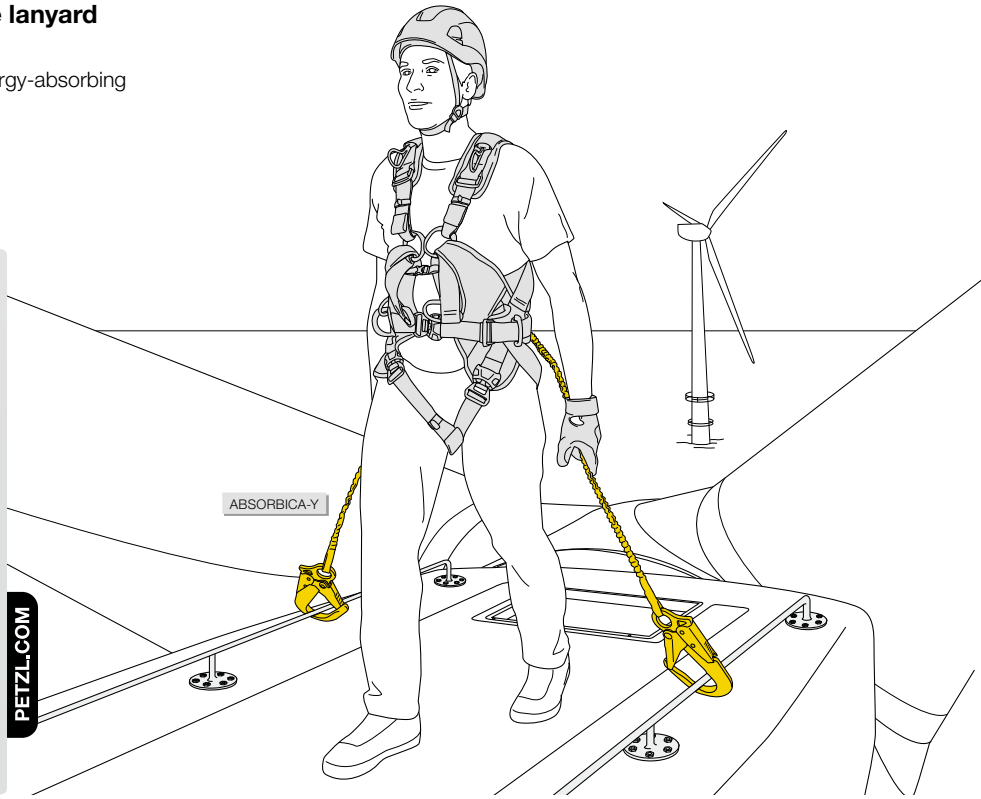
Ascent protected by a fall arrest trolley attached to a rail

The trolley is fixed to the harness's ventral fall arrest attachment point (LADDER CLIMB), distributing the load on the waistbelt and ensuring optimal comfort during progression. In case of a fall, this attachment point moves upward to a sternal position to ensure a vertical post-fall body position.

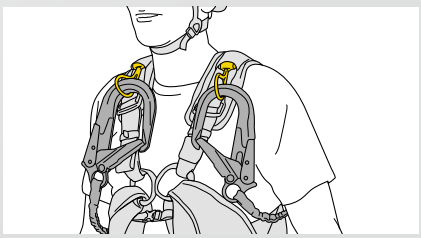


Backed-up progression using a double lanyard with integrated energy absorber

To reduce the risk of a fall, the two arms of the energy-absorbing lanyard are attached on both sides of the user.



To learn more about using the lanyard connector stowage points on your harness, see technical information available at Petzl.com



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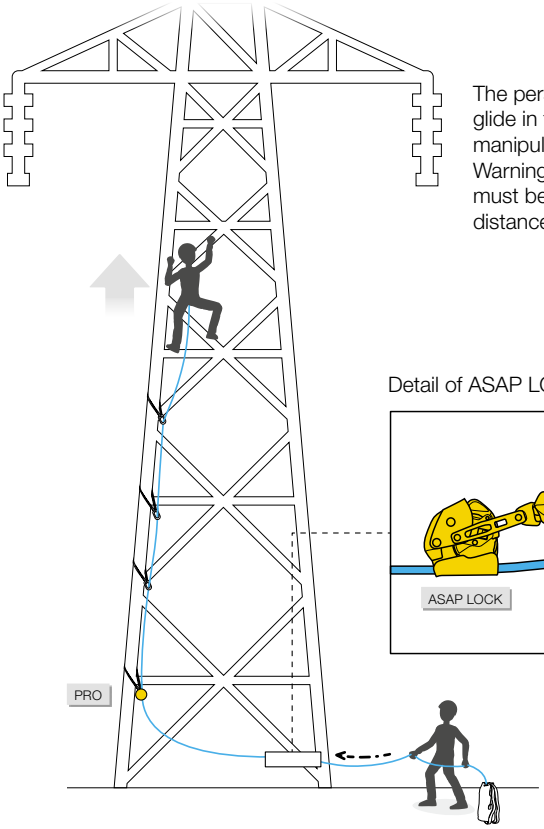
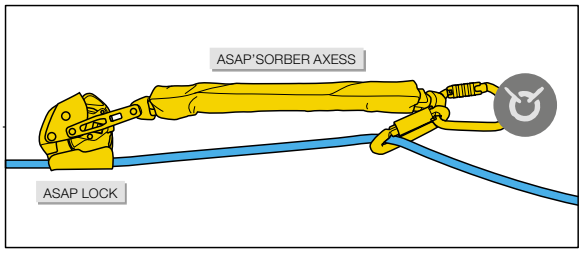
Belaying with the ASAP LOCK for tower access

Belaying the climber's ascent

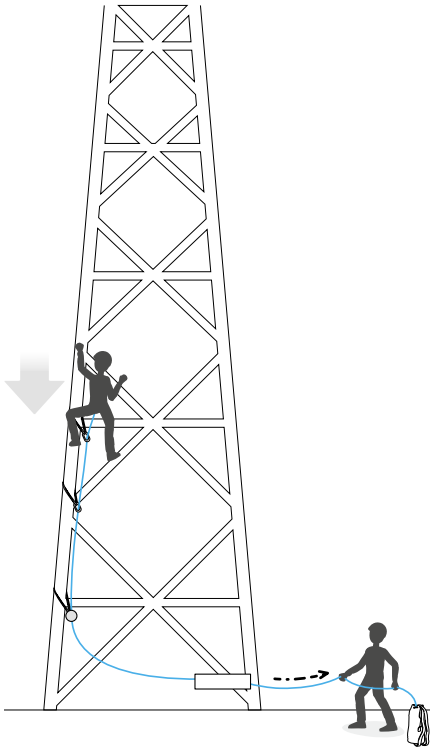


The person on the ground ensures good rope glide in the ASAP LOCK; there is no need to manipulate the device.
Warning: when lead climbing, the anchor points must be closely spaced, to limit the potential fall distance.

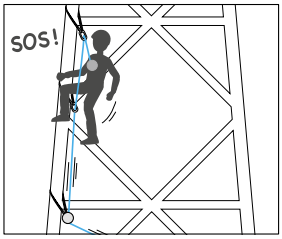
Detail of ASAP LOCK setup

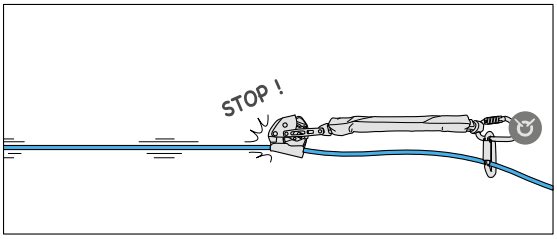


Belaying the descent

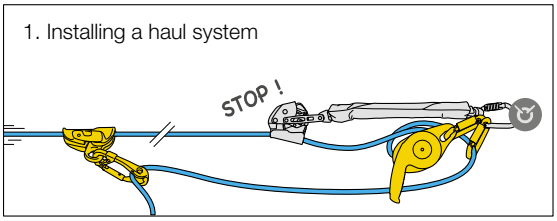


Evacuation technique in case the climber falls

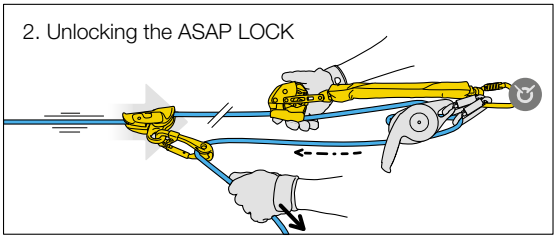


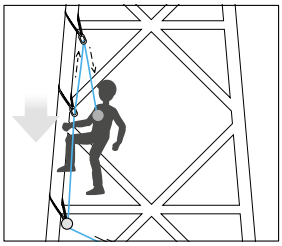


1. Installing a haul system

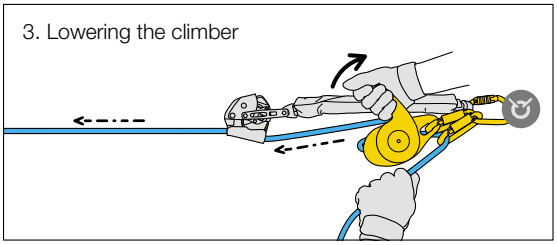


2. Unlocking the ASAP LOCK





3. Lowering the climber



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Framing and roofing

In this type of work situation, the risk of slipping and falling is higher. A safety device must be installed to guard against these hazards.

Examples of operations:

- framing a building under construction
- roof repair or waterproofing
- roof inspection on industrial sites...

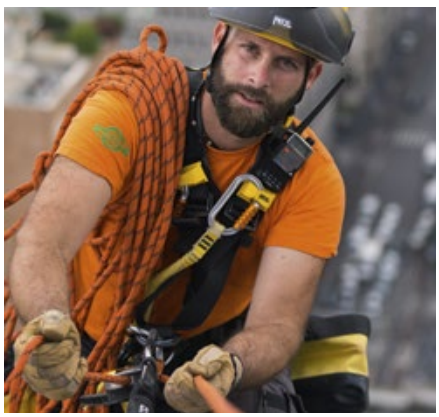
Technical specifics:

- when the situation allows, accessing the work area is done using an elevated work platform. The worker secures him/herself with an energy-absorbing lanyard
- lacking collective protection, the worker is required to use a fall arrest system
- fall arrest systems are also required when installing collective protection

NEW 2019

AVAO BOD FAST international version

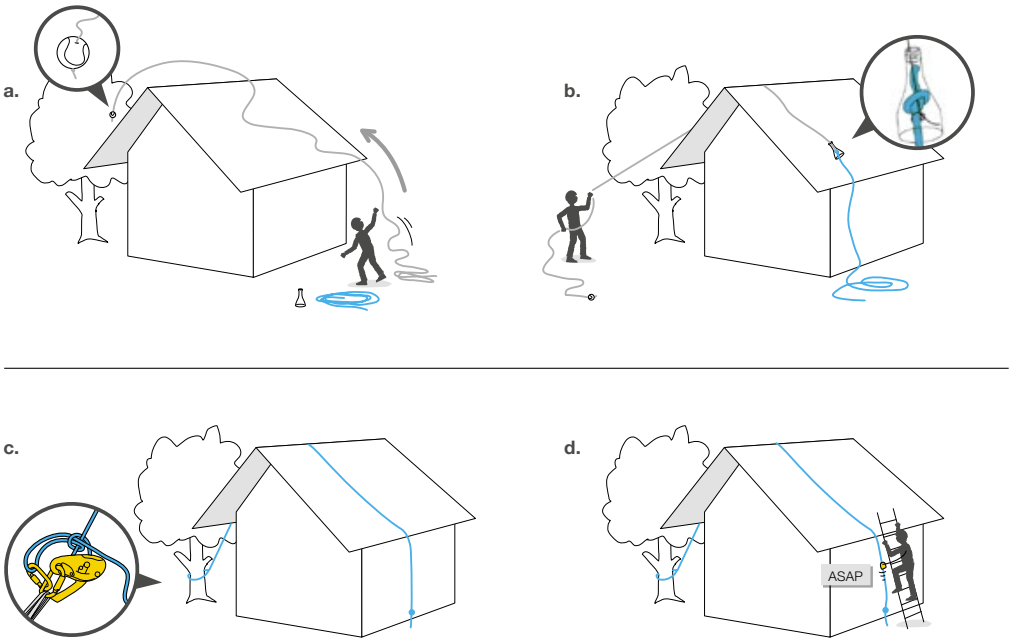
The AVAO BOD FAST fall arrest, work positioning and suspension harness is designed for greater comfort in all situations.
Wide, semi-rigid waistbelt and leg loops give excellent support.
The lightweight, breathable construction maximizes air flow.
The shoulder straps have a system for stowing the fall arrest lanyard connectors and keeping them within reach. The harness has a fall indicator on the dorsal attachment point.



Solar pannel installation © Petzl - vuedici.org - Rigger Italia - Coima

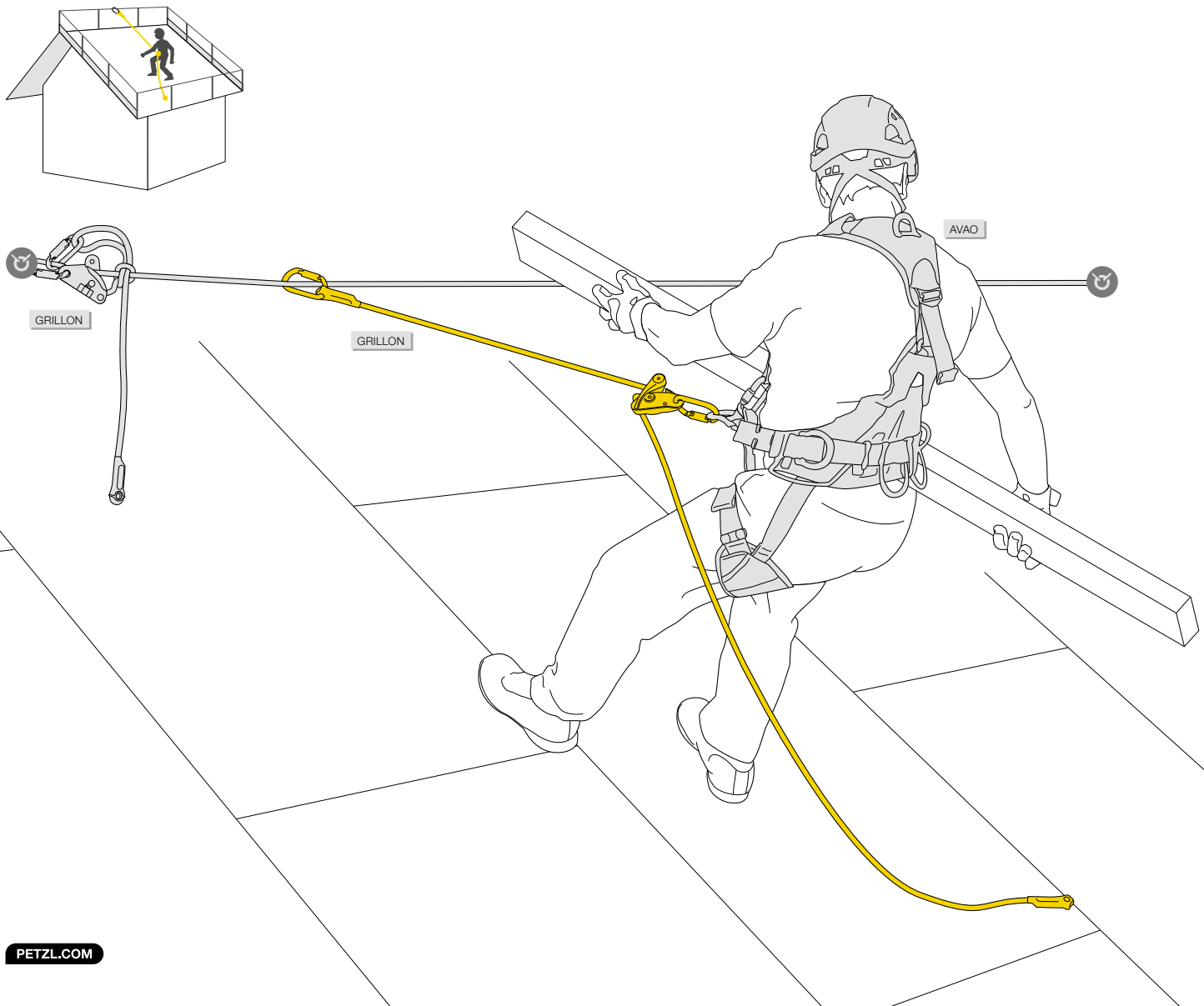
1. Roof access

Installing a rope with releasable anchor; backed up ascent with the ASAP.



2. Long-term use

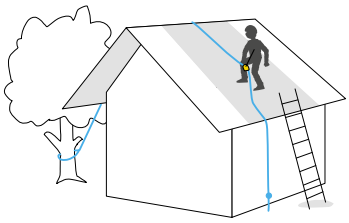
With individual positioning system and collective protection.

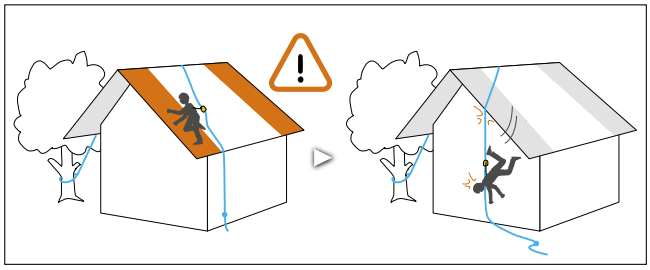


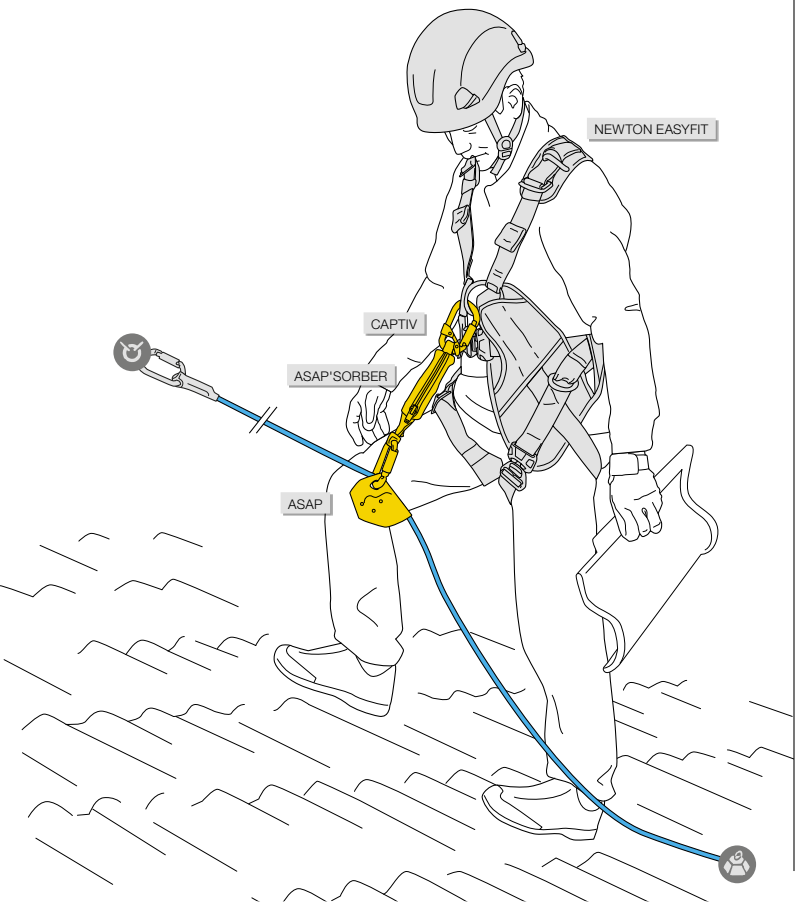
3. Occasional use

With individual fall arrest system.

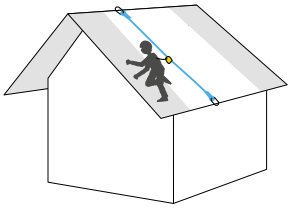
• Working in the center of the roof (limited access zone)

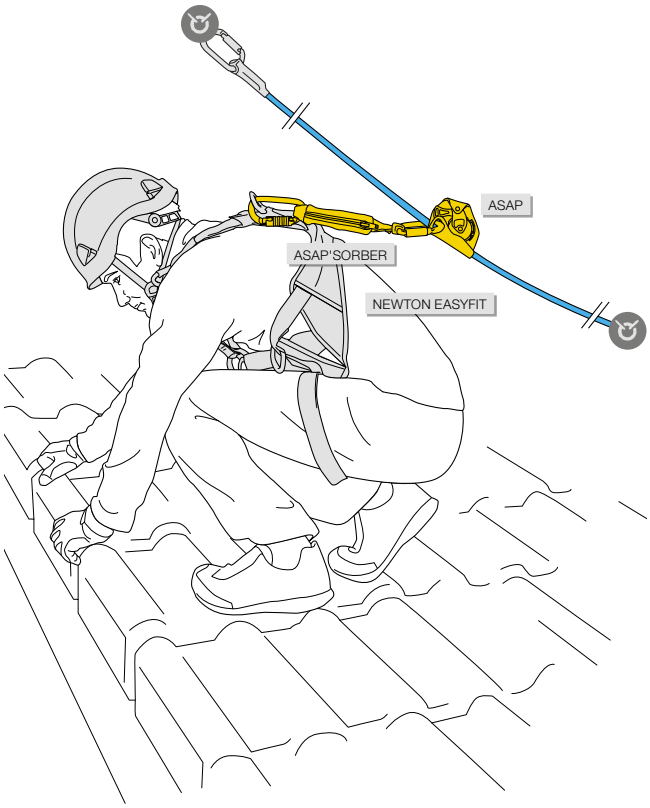




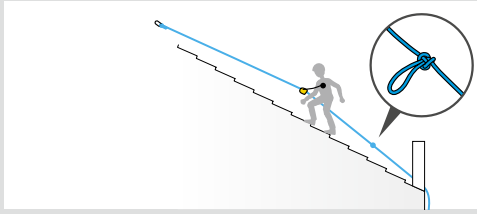


• Working at the edges





To learn more about using the ASAP on an incline, see technical information available at Petzl.com



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Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Inert suspension in a harness, even for a short time, can cause serious physiological harm. In case of an accident, it is important to respond quickly with the appropriate technique.

Self-rescue

On sites where the main access could be cut off by fire, people must be ready to quickly evacuate the building. They have evacuation kits. These kits are either portable or installed permanently on the structure. Where there is no identified anchor possibility, a hook-based system can be used. In both cases, teams must be regularly trained so as not to panic in case of a fire.

On-site rescue

When a worksite is being set up, the company must establish a risk prevention plan (inventory of risk situations):
1. It must protect the personnel from falls from height. The solutions chosen, whether collective or individual, must protect the team members while they work.
2. In the case of an incident, the company must be prepared with rescue systems for accessing, releasing and evacuating the victim. These solutions are established with:
- ready-to-use rescue kits, adaptable to many situations and simple to use
- personal equipment for the worker at height (solution requiring experienced and well-trained teams)

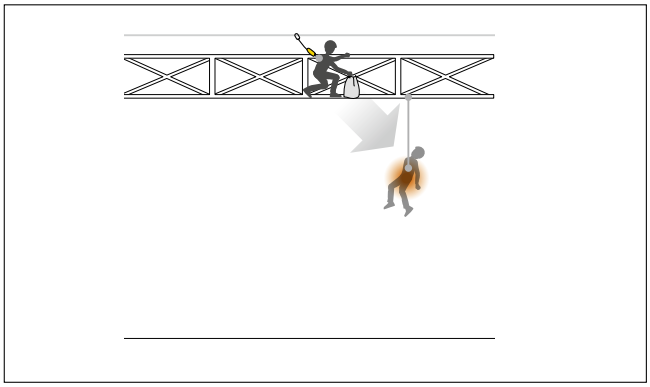
In both cases, the teams undergo regular training so they can respond quickly in case of an accident.

Technical rescue

Technical rescue teams must be able to respond quickly in any situation. They must choose the quickest, most effective way to access the victim.
- When access is easy or possible by motorized means, they can easily transport the rescue equipment
- In more difficult access situations, they may use rope access techniques, from above or below. They thus have lightweight, versatile equipment
- Finally, the helicopter can be a means that is used when victim access is complicated and/or remote, for example in the mountains

Ski lift evacuation

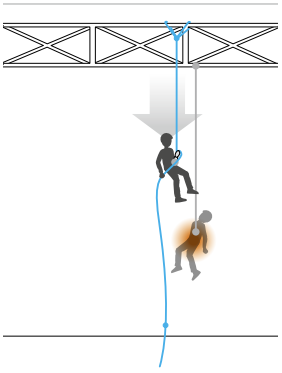
Ski lift evacuation operations follow an evacuation plan. Rescue kits are put together to meet the specific needs of each ski center.



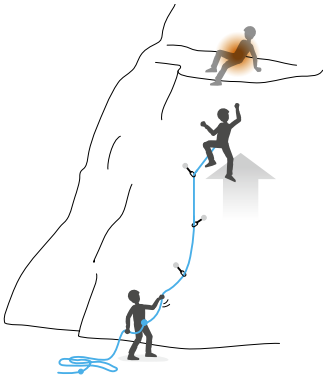
1. Accessing the victim

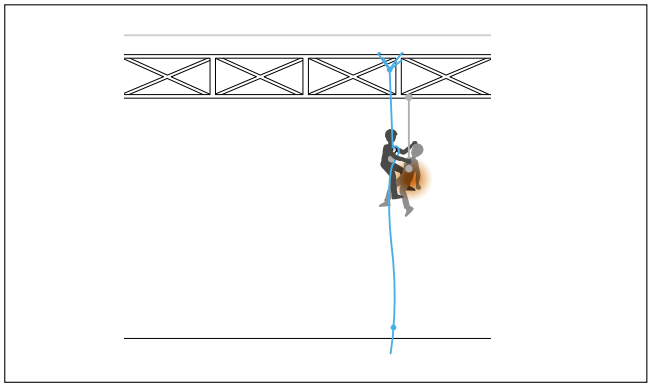
Accessing the victim can sometimes be complicated. Rope access techniques are used in such a case. When access is possible from above, rescuers use rope descent techniques. If an access rope is in place, rescuers can ascend the rope using ventral rope clamp techniques. In other situations, rescuers are obliged to use climbing techniques to reach the victim.

Example of access from above



Example of access from below





2. Releasing the victim

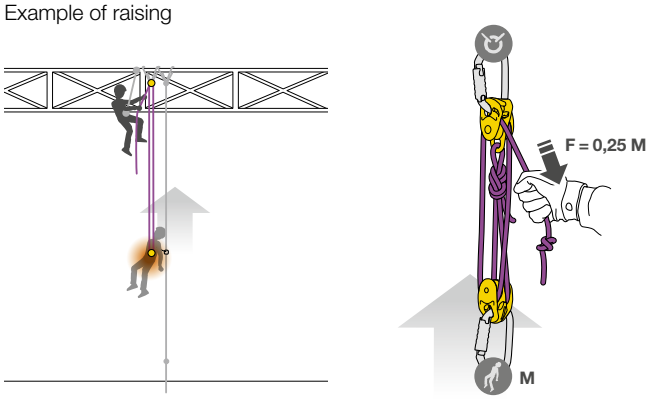
Raising

This involves using a mechanical advantage pulley system in order to easily raise the victim. A rescuer working alone uses a mechanical advantage system to reduce effort. The disadvantage is that a long rope is required. If there are enough rescuers, a lower mechanical advantage is used to speed up the operation.

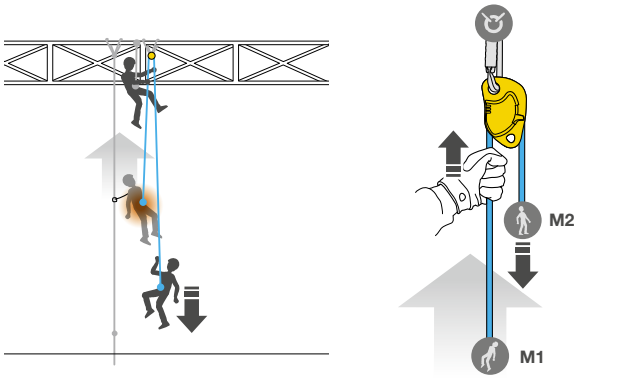
Counterbalance technique

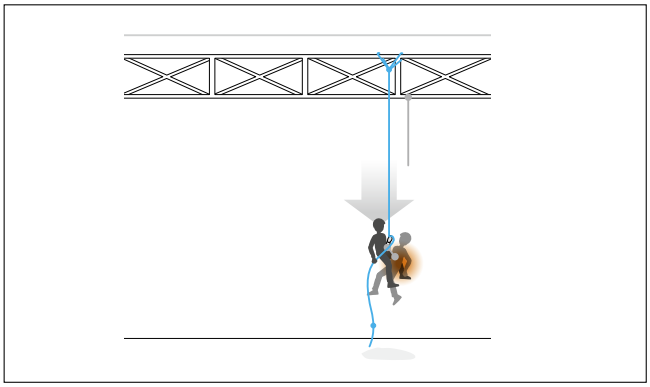
This is a counterweight system. The rescuer is on one side, the victim on the other. The rescuer unweights the rope on the victim's side by pulling upward. The victim ascends and the rescuer descends. The advantage of this system is that it is easy to do with little equipment. Engaging the counterweight is the step that demands the most energy. After that, it is important to be careful to keep the system under control. Be careful when there is a significant weight difference between the rescuer and the victim.

Example of raising



Example of counterbalance

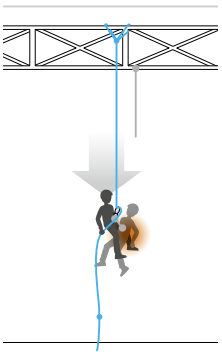




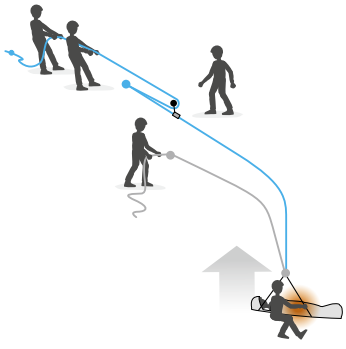
3. Evacuating the victim

Downward, the evacuation is done with a descender.
This is the easiest technique currently in use. When downward evacuation is impossible, the victim is evacuated upward or horizontally. Upward, rescuers use either a counterweight or hauling technique. Horizontally, one or more ropes are tensioned. One rope is used for carriage, another is used as a back-up belay, and another to move the litter.

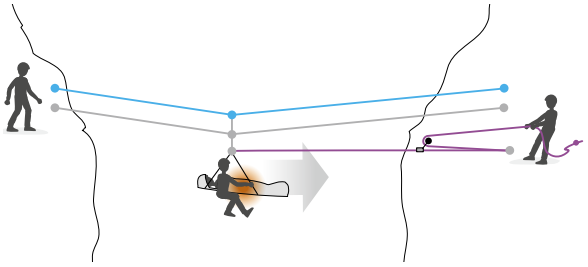
Downward



Upward



Horizontal



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Self-rescue

The typical scenario is of a firefighter trapped inside a burning structure. S/he needs to be able to ensure his/her own rescue and thus must have the appropriate equipment.

Technical specifics:

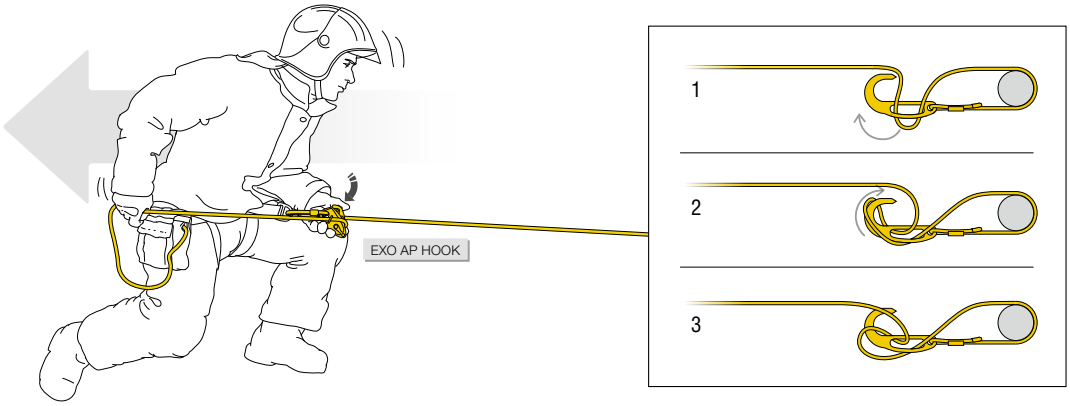
• in this situation, the firefighter must be able to take advantage of any available anchor point inside the building, or as a last resort, a window sill
• the exit generally takes place in an extremely hot, smoke-filled, and hostile environment, adding to the limitations
• the maneuvers must be as simple as possible, for quick action even under intense duress

Window evacuation training by Salt Lake City Fire Department, Utah, USA. © Petzl / Dave Burleson

EXO AP HOOK

EXO AP HOOK is a personal escape system with anchor hook adapted for locations where the possibility of finding an anchor point is uncertain. It has a self-braking system with anti-panic function for quickly moving horizontally, climbing through a window and controlling and stopping a descent. If the user pulls too hard on the handle, the anti-panic function brakes and stops the descent automatically.

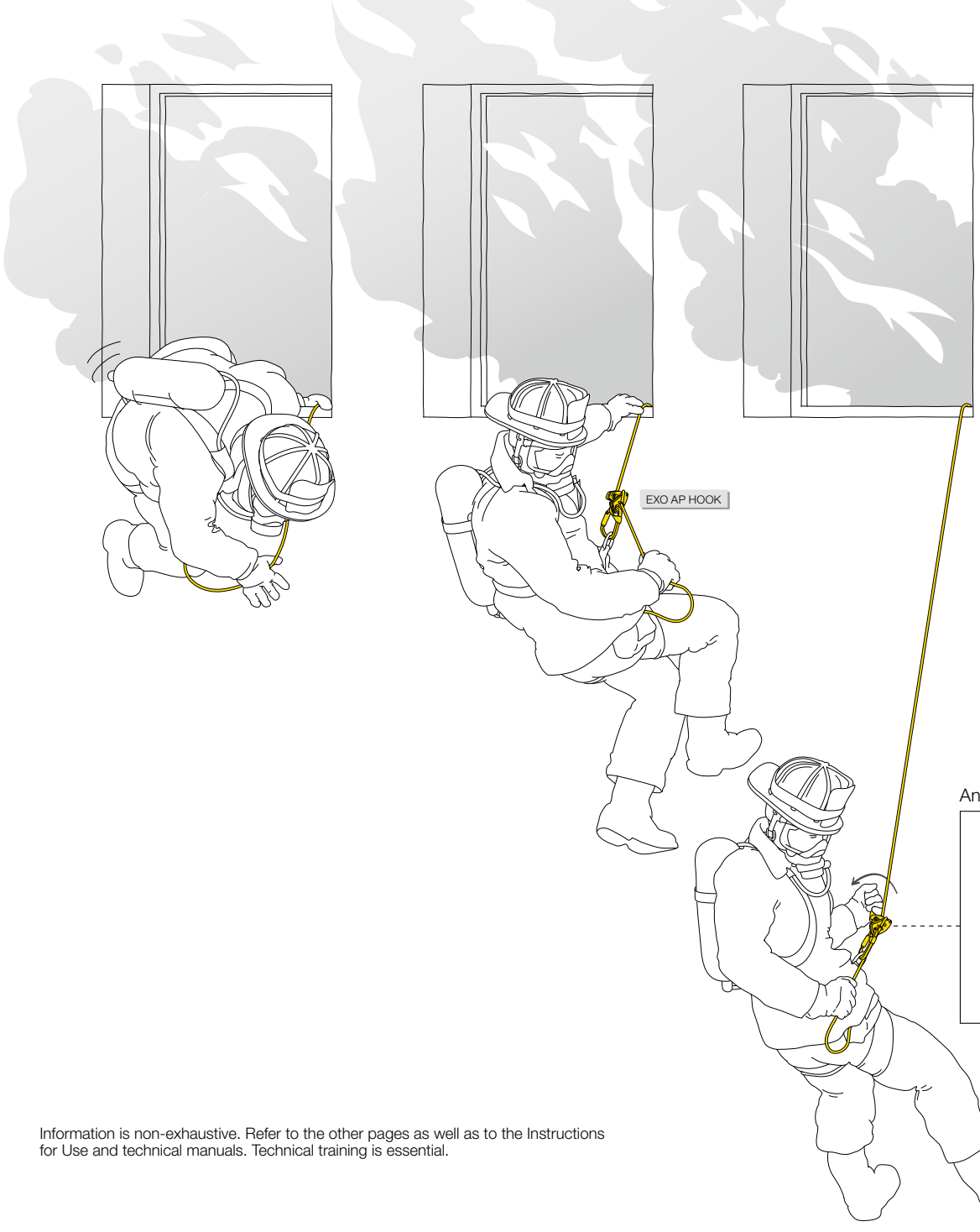
Rapid horizontal movement



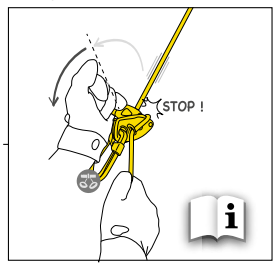
Going through a window while maintaining the anchor hook on the window sill. Locking the left leg against the interior wall to control the movement.

Re-establishment below the window while holding the free end of the rope.

Descending, one hand uses the handle to start the descent, and the other hand holds the rope to control it.



Anti-panic function



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

On-site rescue

If a victim is not able to self-rescue, the on-site work team has to respond immediately and move him/her to safety.

Examples of operations:

- a team member accesses the victim, unhooks him/her, then lowers the victim unaccompanied
- a team member accesses the victim, unhooks him/her, then rappels down with the victim
- the victim is suspended on a pre-installed evacuation system that does not require a team member to access him/her directly

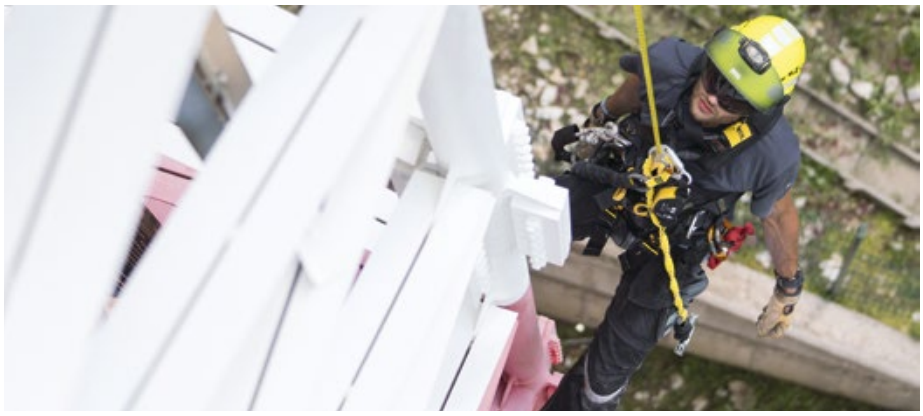
Technical specifics:

- unaccompanied evacuation can generally be done using a ready-to-use rescue kit
- accompanied descent requires proper training, as it implies a mastery of advanced rope access techniques
- in all cases, the rescue method should be as rapid as possible, in order to reduce the risk of suspension trauma, especially when the victim is unconscious

NEW 2019

JAG RESCUE KIT

The ready-to-use reversible JAG RESCUE KIT is designed to easily unhook and lower a victim. It contains a JAG SYSTEM haul kit, a RING OPEN gated ring, an I'D EVAC descender, a CONNEXION FIXE 150 cm anchor strap, a BUCKET bag and an AXIS 11 mm rope with two sewn terminations.



Evacuation exercise on a pylon © Petzl - vuedici.org - Profil - TDF

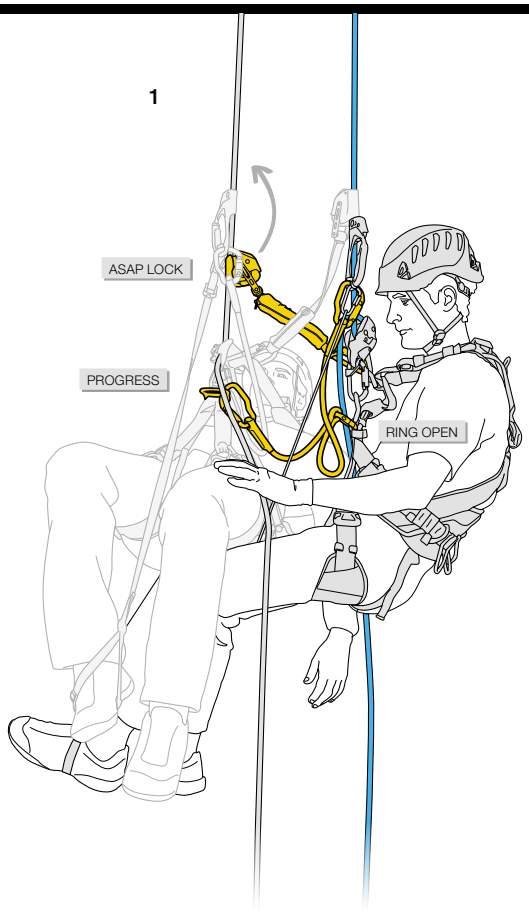
Release and evacuation of a victim on a CROLL

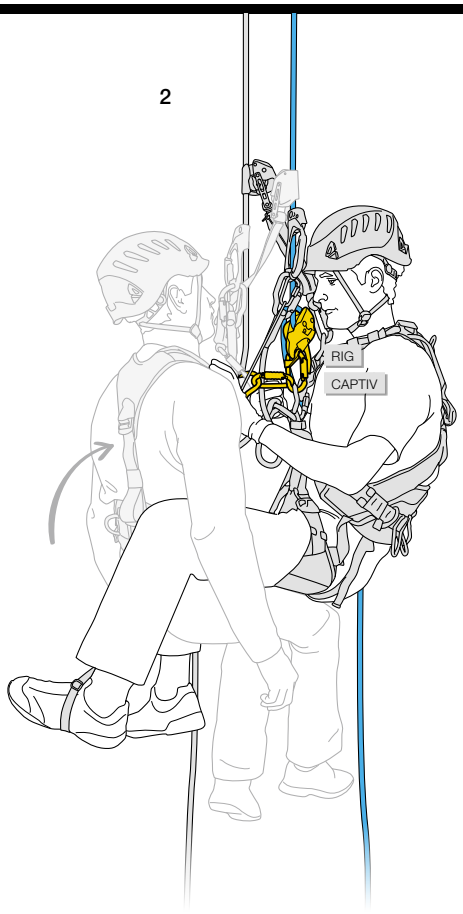
Operation from below by a team member with his/her own equipment. The rescuer must do a risk assessment before responding and verify (among other things) that the victim's ropes are in good condition. The counterbalance system is used to transfer the victim onto the descender.

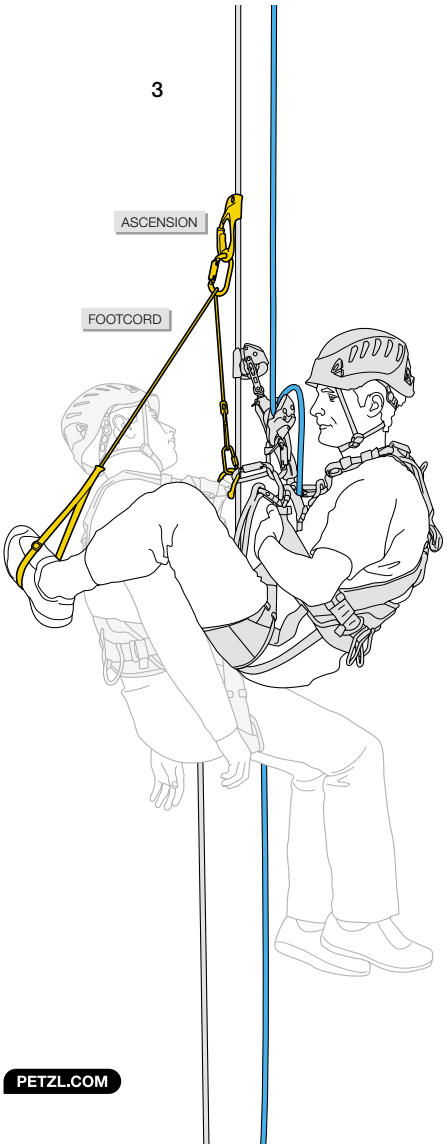
The rescuer ascends on the victim's safety line.

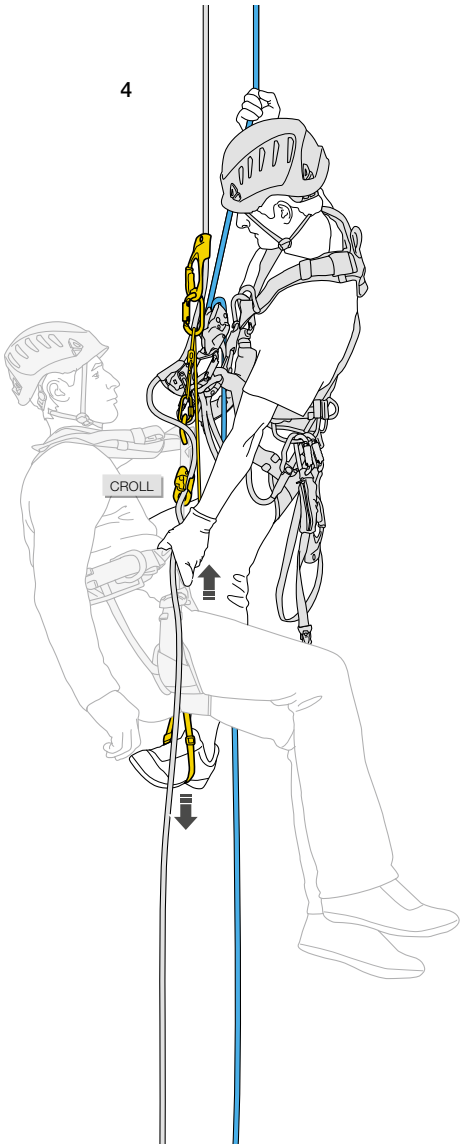
1. The rescuer transfers him/herself to the RIG descender, tethers to the victim and moves the ASAP up above the victim.

2. The rescuer puts a second connection in place. S/he can then remove the equipment that is in the victim's way.



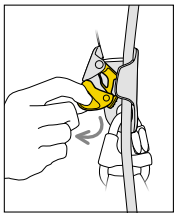




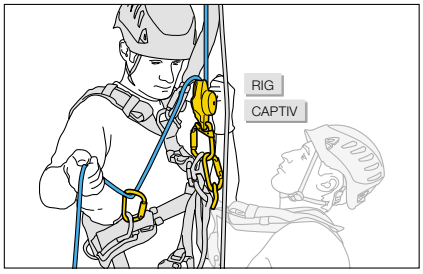


3. On the victim's rope, the rescuer installs a foot loop in counterbalance on the ASCENSION handled rope clamp.

4. In counterbalance on the foot loop, the rescuer prevents the rope from running through the CROLL and raises the victim. S/he removes the CROLL and takes up as much rope slack as possible in the RIG descender.



5. The rescuer, hanging on the RIG, recovers the ASCENSION. S/he installs a braking carabiner and accompanies the victim to the ground.

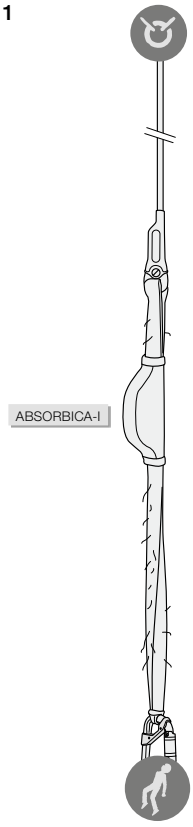


Release and rescue using a reversible rescue kit

• Unaccompanied evacuation (when victim doesn't require monitoring or for a free-hanging evacuation):

1. Victim suspended by a lanyard, with the energy absorber torn by the fall.
2. Hauling (allows the victim to be released).
3. Lowering the victim.

1



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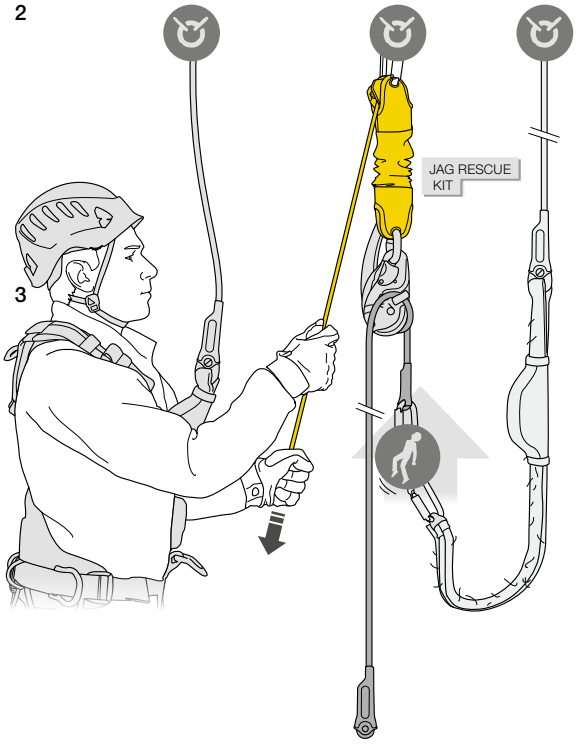

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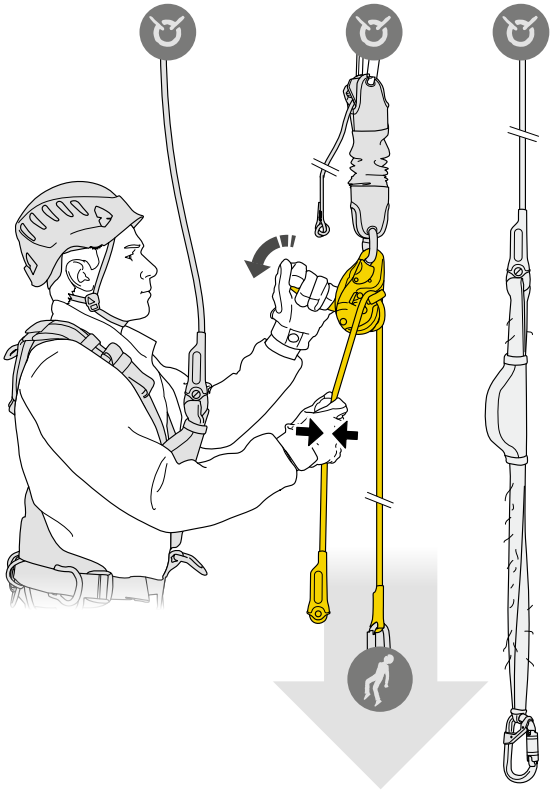


To learn more about using the JAG RESCUE KIT to rescue a victim, see the technical information available at www.petzl.com

PETZL.COM

Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Technical rescue

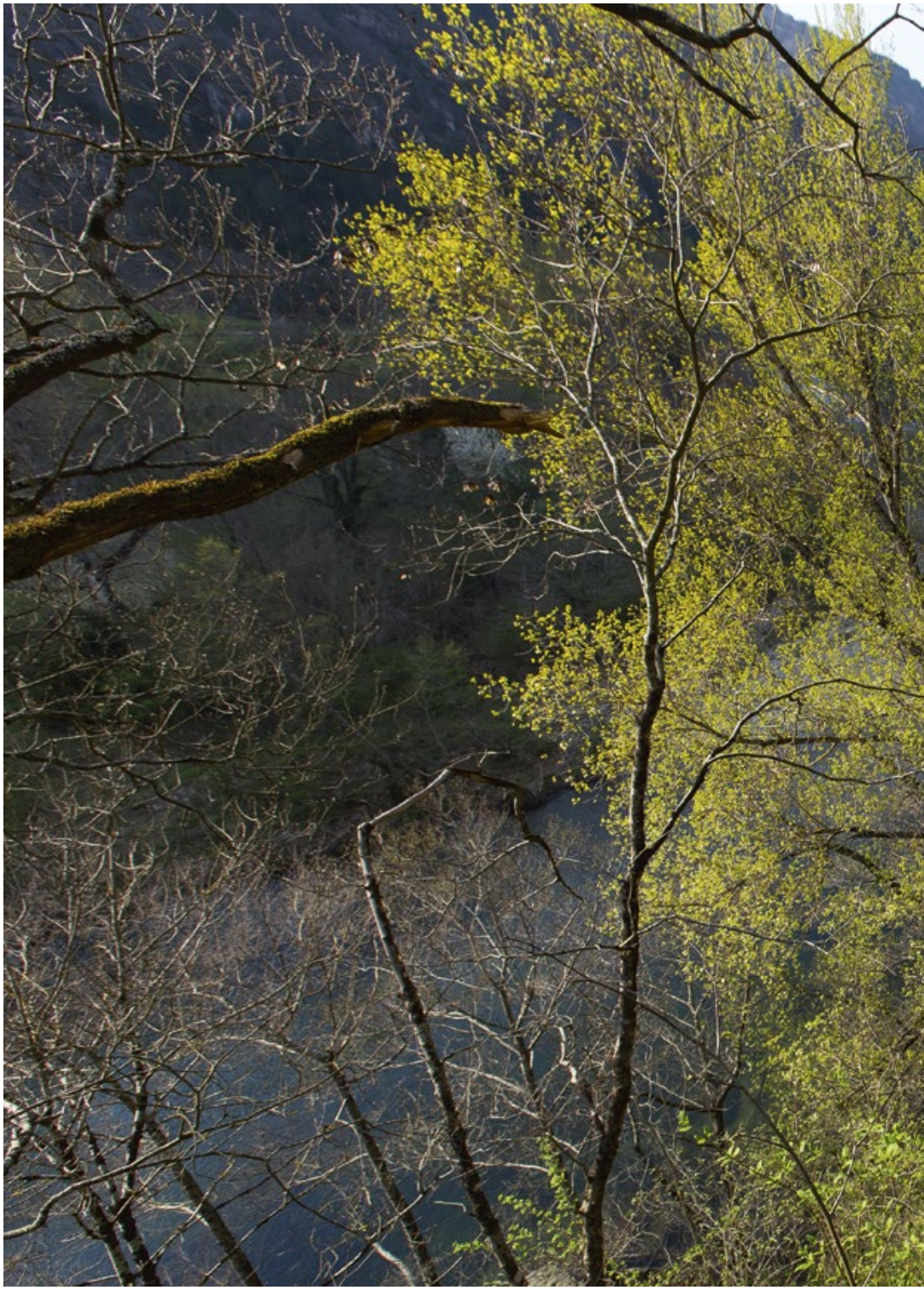
Technical rescue teams respond when the situation is especially difficult and requires significant resources to be deployed.

Examples of rescues:

• following a vehicle roll-over into a ravine, the victims are rescued via motorized means
• evacuation of an injured worker from a location that is difficult to access
• helicopter rescue operations in mountainous terrain...

Technical specifics:

• technical rescue teams operate in any terrain. They have complete mastery of all progression and belay techniques on rope
• when the terrain allows, downward evacuation is preferred because of the gravity-assist
• upward evacuation is a team effort that requires perfect coordination by everyone involved. It demands techniques which are sometimes particularly complex: raising systems, creating a hauling system using lightweight pulleys, counterweight techniques...



STRATO VENT HI-VIZ

The STRATO VENT HI-VIZ helmet is very lightweight and comfortable, thanks to its CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. It has ventilation holes that allow airflow through the helmet. The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

Rescue exercise in Gorges du Tarn © Petzl - vuedici.org - GRIMP 48 - ECASC

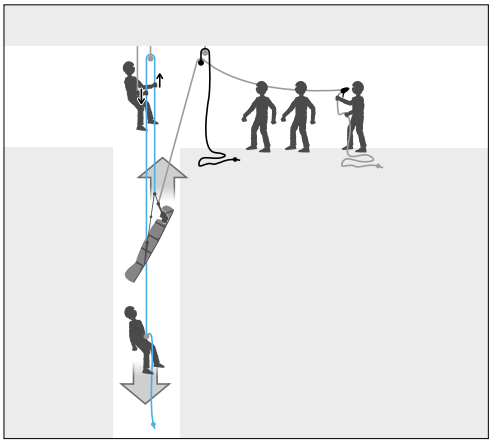
Upward and horizontal evacuation in a confined space

1. Raising the NEST litter by a rescuer in counterbalance on rope clamps. A rescuer controls the raise. A third person gives a back-up belay with a second rope.

2. The rescuer below gives slack with a descender. The back-up belayer hauls the NEST litter, allowing it to tilt to a horizontal position with the help of the STEF tilting device.

3. Recovery of the NEST by team members.

1



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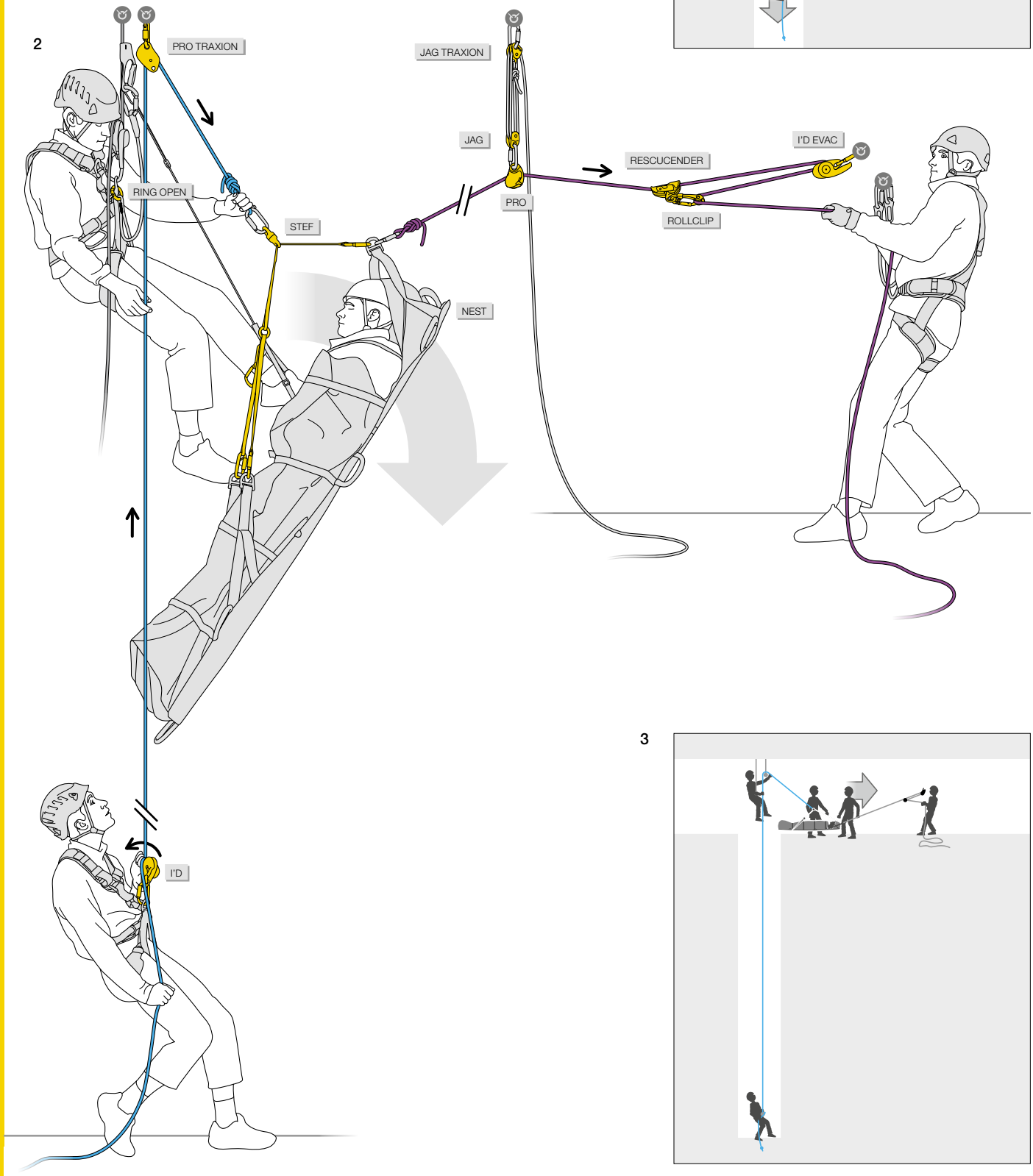

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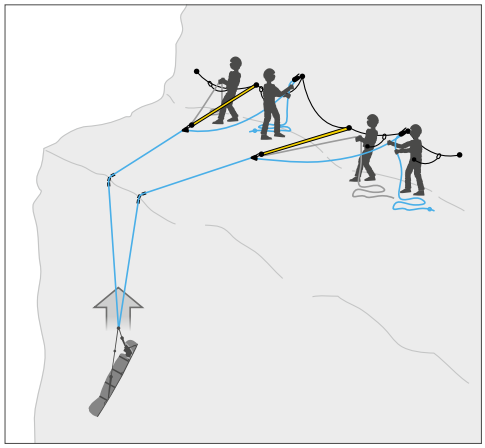
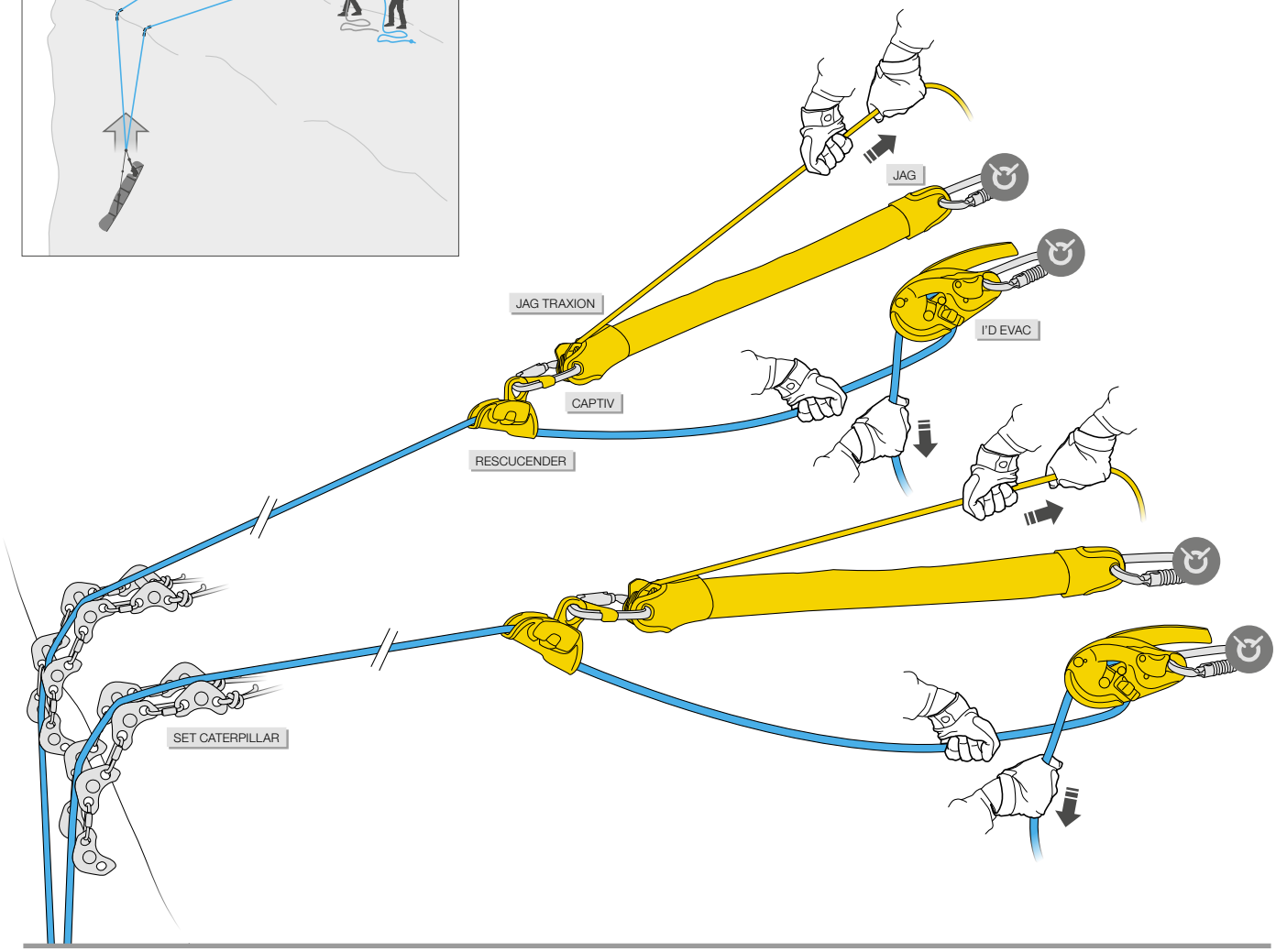


Upward and horizontal evacuation by simultaneous traction on two lines

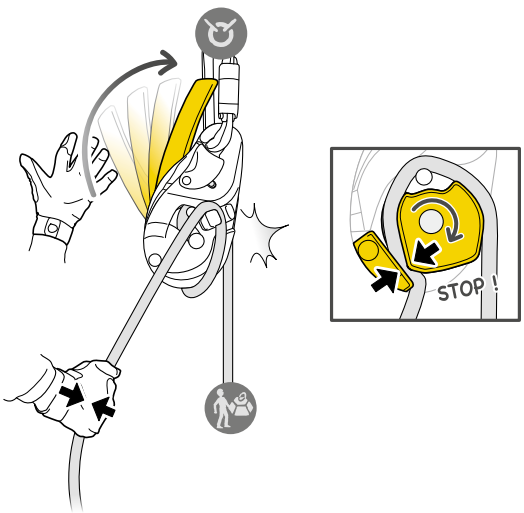
The ropes are used as both work and safety rope.



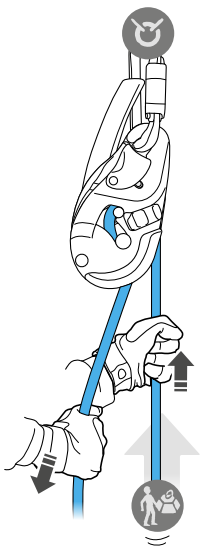
AUTO-LOCK

AUTO-LOCK
SYSTEM

The AUTO-LOCK system locks the load automatically and returns the handle to the stop position.



Once locked, the rope can be taken up without having to manipulate the handle.



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Ski lift evacuation

If ski lift equipment fails, the person in charge must evacuate passengers according to the evacuation plan.
This evacuation must be done within a predefined time frame, and is generally conducted by the operations staff.

Technical specifics:

• accessing the passengers is done by moving along the cable, from the towers
• these operations are managed simultaneously by multiple autonomous teams, generally composed of:
- a person suspended on the cable who evacuates passengers and whose movements are protected by a team member on the tower
- a person on the ground who receives passengers and guides the movement of the team member on the cable
• the success of these operations hinges largely on the instruction, training and practice of the operations staff (at least once a year)

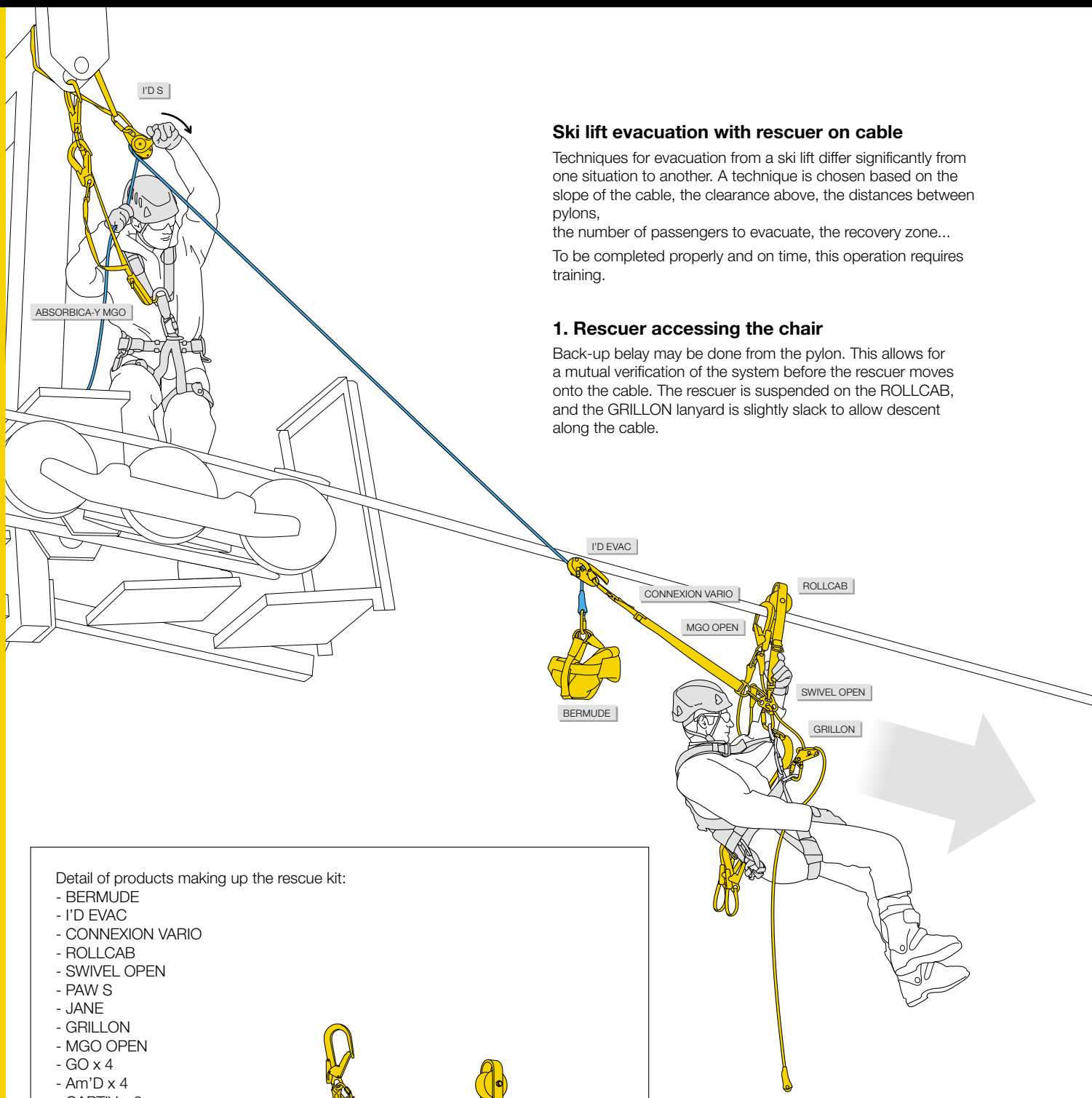
NEW 2019

I'D EVAC

The I'D EVAC self-braking descender is designed for lowering from an anchor. The ergonomic handle is specifically oriented for managing a load from the anchor and offers comfortable descent control. The integrated anti-panic function and anti-error catch limit the risk of an accident due to user error. The AUTO-LOCK system allows the rope to be automatically locked without having to manipulate the handle or tie off the device. The closed auxiliary brake increases the friction as required for the load weight and the rope diameter and provides a constant redirect of the rope.

Ski lift evacuation exercice in Interstoder, Austria © Petzl - Lafouche - Hinterstoder

Ski lift evacuation



Ski lift evacuation with rescuer on cable

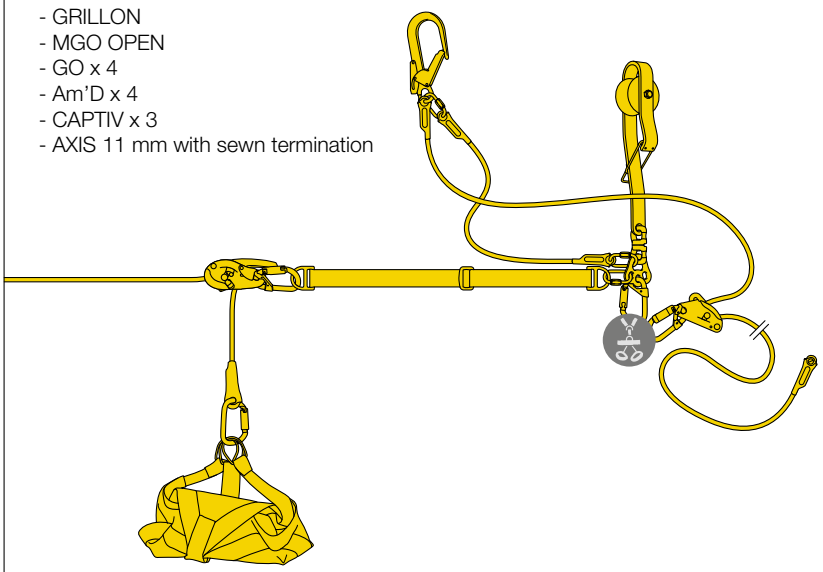
Techniques for evacuation from a ski lift differ significantly from one situation to another. A technique is chosen based on the slope of the cable, the clearance above, the distances between pylons,
the number of passengers to evacuate, the recovery zone...

To be completed properly and on time, this operation requires training.

1. Rescuer accessing the chair

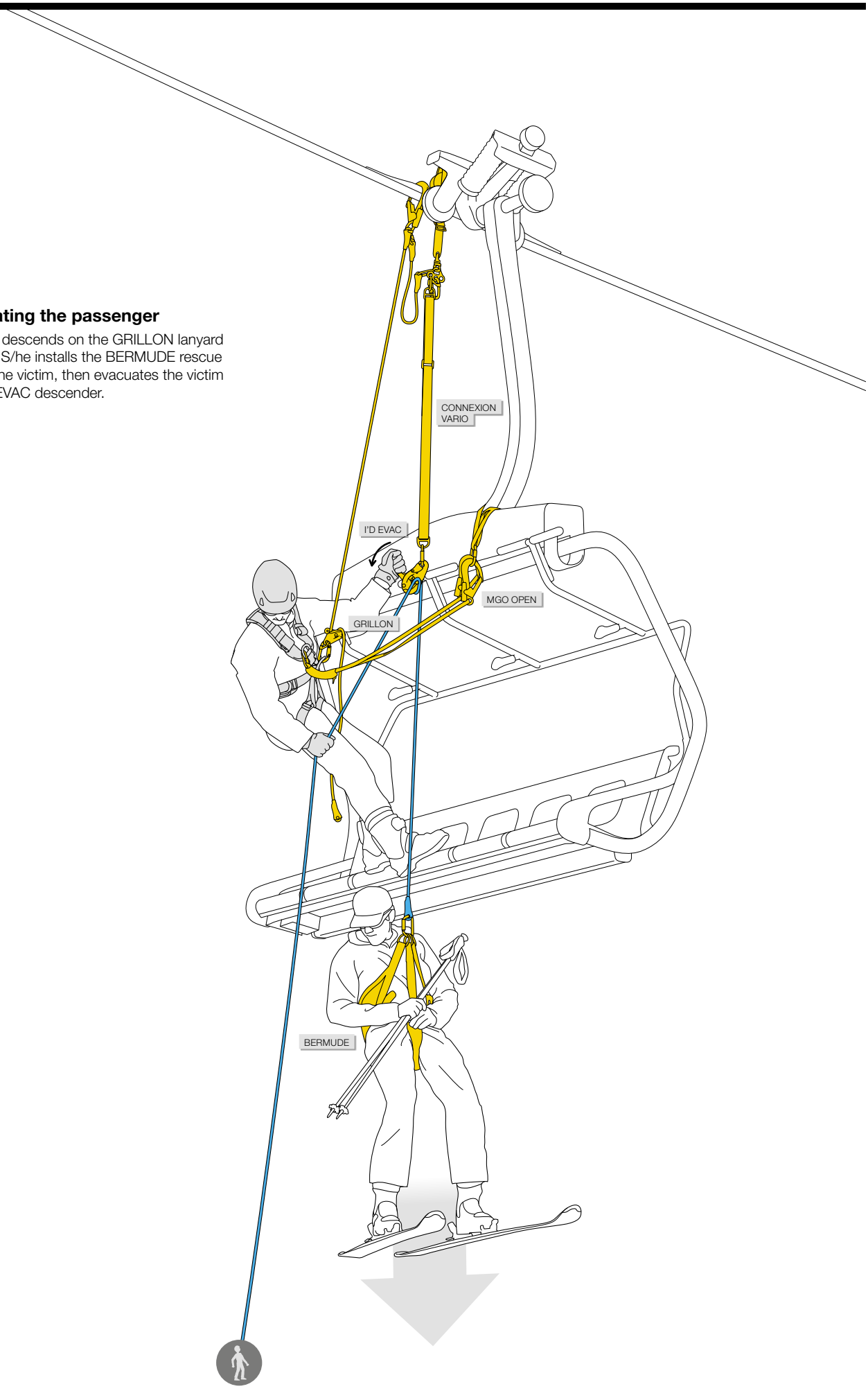
Back-up belay may be done from the pylon. This allows for a mutual verification of the system before the rescuer moves onto the cable. The rescuer is suspended on the ROLLCAB, and the GRILLON lanyard is slightly slack to allow descent along the cable.

Detail of products making up the rescue kit:
- BERMUDE
- I'D EVAC
- CONNEXION VARIO
- ROLLCAB
- SWIVEL OPEN
- PAW S
- JANE
- GRILLON
- MGO OPEN
- GO x 4
- Am'D x 4
- CAPTIV x 3
- AXIS 11 mm with sewn termination



2. Evacuating the passenger

The rescuer descends on the GRILLON lanyard to the chair. S/he installs the BERMUDE rescue triangle on the victim, then evacuates the victim with an I'D EVAC descender.



Information is non-exhaustive. Refer to the other pages as well as to the Instructions for Use and technical manuals. Technical training is essential.

Road protection works in Gorges du Nan, Isère, France © Petzl - vuedici.org - Hydrokarst - Département de l'Isère

To give each user the best possible fit, Petzl harnesses are adjustable at the waist, shoulders and leg loops.
They are equipped with different types of buckles:

Automatic buckles
Automatic buckles open and close simply and quickly, even when wearing gloves, without loss of adjustment.

Self-locking buckles
These buckles do not require re-threading to be locked: they adjust easily in seconds.

General purpose harnesses

Fall arrest harnesses

Fall arrest harnesses with a simple, lightweight design.

Fall arrest and work positioning harnesses

Fall arrest and work positioning harnesses that are comfortable and easily donned.

Harnesses for fall arrest, work positioning and suspension

Versatile and very comfortable harnesses for fall arrest, work positioning and suspension.

Specialized harnesses

Rope access harnesses

Very comfortable harnesses, with integrated ventral rope clamp to facilitate ascending a rope.

Tree care harnesses

Very comfortable harnesses, with attachment bridge for greater freedom of movement in the trees.

Rescue harnesses

Lightweight harnesses suitable for various rescue environments.

Litter and evacuation triangles

Equipment designed for rope rescue (confined space, ski lifts...).

Fall arrest harnesses

These harnesses are designed specifically for fall arrest. In particular, they allow for the attachment of ABSORBICA energy-absorbing lanyards or an ASAP mobile fall arrester.

• Comfort for all work phases

NEWTON harnesses are designed to not interfere with the worker's movements. The anatomical and lightweight design is close-fitting, while giving optimal freedom of movement.

• Easy to use

Harness is easy to open and close
The sternal FAST automatic buckle allows the harness to be opened and closed simply and quickly.

Immediate access to tools
The equipment loops simplify tool organization and the keepers allow a TOOLBAG pouch to be added.

• Available in international versions

The NEWTON harnesses that are certified to all North American, European and Russian standards have additional features.

Stowage for lanyard connectors
The harnesses have a stowage system for the MGO connectors on fall arrest lanyards on each shoulder strap. In case of a fall, the system releases the MGO connectors and allows the absorber to be deployed.

Easy harness inspection
The sternal and dorsal attachment points are equipped with fall indicators: a red strap appears after a fall to indicate that the harness must be retired.

• Great simplicity

NEWTON harnesses have color-coded straps (yellow/black) that allow rapid identification of the upper and lower parts of the harness before donning.

• Quick donning

The NEWTON EASYFIT harness is quick-donning, thanks to a vest that helps keep its shape. It is equipped with FAST automatic buckles on the leg loops, allowing the harness to be easily donned with both feet on the ground.

• For high visibility

The NEWTON EASYFIT HI-VIZ harness has a fluorescent-colored vest with reflective strips, making the worker highly visible. It makes the worker more visible on a worksite, road or industrial site regardless of the lighting conditions.

NEWTON European version

Fall arrest harnesses

The NEWTON fall arrest harness is comfortable for work and easy to use.
It is certified to European and Russian standards.

NEWTON International version

Fall arrest harnesses

The NEWTON fall arrest harness is comfortable for work and easy to use. It offers ergonomic stowage of MGO connectors and has fall indicators. It is certified to North American, European and Russian standards.

NEWTON EASYFIT European version

Easy-to-don fall arrest harness

The NEWTON EASYFIT fall arrest harness is easily donned thanks to its EASYFIT design: a vest ensures the harness keeps its shape and the FAST automatic buckles (sternal and leg loop) allow the harness to be donned with both feet on the ground. It is certified to European and Russian standards.

NEWTON EASYFIT International version

Easy-to-don fall arrest harness

The NEWTON EASYFIT fall arrest harness is easily donned thanks to its EASYFIT design: a vest ensures the harness keeps its shape and the FAST automatic buckles (sternal and leg loop) allow the harness to be donned with both feet on the ground. It offers ergonomic stowage of MGO connectors and has fall indicators. It is certified to North American, European and Russian standards.

NEWTON EASYFIT HI-VIZ

Fall arrest harness with high-visibility vest that is easy to don

The NEWTON EASYFIT HI-VIZ fall arrest harness has a fluorescent-colored vest with reflective strips, making the worker highly visible. It is easily donned thanks to its EASYFIT design. A vest ensures the harness keeps its shape, and the FAST automatic buckles (sternal and leg loop) allow the harness to be donned with both feet on the ground. It offers ergonomic stowage of MGO connectors and has fall indicators. It is certified to North American, European and Russian standards.

Fall arrest and work positioning harnesses

These harnesses help provide fall protection for the worker and enable him/her to position him/herself at a work station, with a GRILLON lanyard, for example. Additionally, they are specifically designed to facilitate vertical progression on rail or cable-based fall protection systems (only VOLT and VOLT WIND harnesses).

• Quick and easy donning

EASYFIT design
The VOLT harnesses are quick-donning, thanks to a vest that helps them keep their shape. They have FAST automatic buckles on the waistbelt and leg loops, making the harness very easy to don with both feet on the ground.

• Optimal comfort

Comfortable work positioning
The wide, semi-rigid waistbelt offers excellent lumbar support in work positioning situations. Additionally, its lightweight, breathable construction maximizes air flow.

• Easy to use

Stowage for lanyard connectors
The harnesses have a stowage system for the MGO connectors on fall arrest lanyards on each shoulder strap. In case of a fall, the system releases the MGO connectors and allows the absorber to be deployed.

Easy harness inspection
The sternal and dorsal attachment points are equipped with fall indicators: a red strap appears after a fall to indicate that the harness must be retired.

Folding side attachment points
Side attachment points can be folded down to prevent them snagging accidentally when not in use.

• For work on towers and antennas

The VOLT and VOLT LT harnesses have a wide waistbelt with equipment loops on the back for easy organization of work tools.

• For work inside wind turbine towers

The VOLT WIND and VOLT WIND LT harnesses have dorsal wear protectors, to reduce wear on the straps when moving about inside a wind turbine tower.

VOLT®

Fall arrest and work positioning harness with attachment point for vertical progression on rail or cable

The VOLT fall arrest and work positioning harness is very easily donned, thanks to its EASYFIT design: a vest ensures the harness keeps its shape, and the FAST automatic buckles on the waistbelt and leg loops allow the harness to be donned with both feet on the ground. The VOLT harness' anatomical design and wide, semi-rigid waistbelt ensure comfort throughout the workday. Its LADDER CLIMB attachment point allows for ventral attachment of the fall-arrest trolley, thus ensuring optimal comfort during progression. It is certified to European and Russian standards (also available in a model certified to European and Canadian standards; comes with OXAN connector).

VOLT® LT

Fall arrest and work positioning harnesses

The VOLT LT fall arrest and work positioning harness is very easily donned thanks to its EASYFIT design: a vest ensures the harness keeps its shape and the FAST automatic buckles on the waistbelt and leg loops allow the harness to be donned with both feet on the ground. The VOLT LT harness' anatomical design and wide, semi-rigid waistbelt ensure comfort throughout the workday. It is certified to North American and European standards.

VOLT® WIND

Fall arrest and work positioning harness for the wind power industry with attachment point for vertical progression on rail or cable

The VOLT WIND fall arrest and work positioning harness is very easily donned thanks to its EASYFIT design: a vest ensures the harness keeps its shape and the FAST automatic buckles on the waistbelt and leg loops allow the harness to be donned with both feet on the ground. The VOLT WIND harness' anatomical design and wide, semi-rigid waistbelt ensure comfort throughout the workday. Its LADDER CLIMB attachment point allows for ventral attachment of the fall-arrest trolley, thus ensuring optimal comfort during progression. It has wear protectors on the waistbelt and below the dorsal point to limit wear when moving about inside the wind turbine tower. It is certified to European and Russian standards (also available in a model certified to European and Canadian standards; comes with OXAN connector).

VOLT® WIND LT

Fall arrest and work positioning harness for the wind power industry

The VOLT WIND LT fall arrest and work positioning harness is very easily donned, thanks to its EASYFIT design: a vest ensures the harness keeps its shape, and the FAST automatic buckles on the waistbelt and leg loops allow the harness to be donned with both feet on the ground. The VOLT WIND LT harness' anatomical design and wide, semi-rigid waistbelt ensure comfort throughout the workday. It has wear protectors on the waistbelt and below the dorsal point to limit wear when moving about inside the wind turbine tower. VOLT WIND LT is certified to North American and European standards.

Accessory

Seat for VOLT® harnesses

Seat for VOLT and VOLT LT harnesses for more comfort in suspension

The seat for VOLT harnesses installs in the two side slots of the harness, for increased comfort during prolonged suspension.

Harnesses for fall arrest, work positioning and suspension

These harnesses are used for fall protection, for positioning at a work station, and for working comfortably in suspension.

• Comfortable construction

Wide, semi-rigid waistbelt and leg loops give excellent support. The lightweight, breathable construction maximizes air flow.

• Convenient adjustment

Easy to adjust
The AVAO harnesses can be adjusted at the waistbelt and shoulder straps. These adjustment points are equipped with self-locking DOUBLEBACK buckles. These do not require re-threading to be locked: the harness adjusts easily in seconds.

Available in easier donning version
The leg loops of AVAO harnesses are equipped with FAST/FAST LT automatic buckles that facilitate donning the harness with feet on the ground or with large footwear, without loss of adjustment, even when wearing gloves.

• Optimal organization of work tools

AVAO harnesses are equipped with six equipment loops on the sides and at the rear of the waistbelt. They are shaped to facilitate clipping carabiners.
Each harness also has retainers designed for the CARITOOL tool holder and the TOOLBAG pouch.

• Stowage for lanyard connectors

The harnesses have a stowage system for fall arrest lanyard connectors on each shoulder strap. In case of a fall, this system releases the MGO connector and allows the absorber to be deployed.

• A complete solution, with dorsal attachment point

The AVAO BOD and AVAO BOD FAST full-body harnesses are equipped with a dorsal attachment point for attaching a fall arrest system. In case of a fall on this attachment point, a shortened adjustment of the waistbelt to leg loop length means the load is taken up on the leg loops, allowing the user to remain suspended longer while awaiting rescue.

• A lightweight and flexible solution

Combining a seat harness with a separate chest harness is a more lightweight solution, if the user does not need a dorsal attachment point. It is also a solution for hard-to-fit body types, as it allows combining different seat and chest harness sizes.

AVAO® BOD / AVAO® BOD FAST European version

Comfortable harness for fall arrest, work positioning and suspension

The AVAO BOD fall arrest, work positioning and suspension harness is designed for greater comfort in all situations. Wide, semi-rigid waistbelt and leg loops give excellent support. Its lightweight, breathable construction maximizes air flow. The shoulder straps have a system for stowing the fall arrest lanyard connectors and keeping them within reach. The DOUBLEBACK self-locking buckles at the rear of the harness, between the waistbelt and the leg loops, allow for a shorter adjustment when the dorsal attachment point is used. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. The harness is fastened by a SCREW-LOCK manual locking carabiner and is certified to European and Russian standards. AVAO BOD features leg loops with DOUBLEBACK self-locking buckles; AVAO BOD FAST has leg loops with FAST LT automatic buckles.

NEW 2019

AVAO® BOD / AVAO® BOD FAST international version

Comfortable harness for fall arrest, work positioning and suspension

The AVAO BOD fall arrest, work positioning and suspension harness is designed for greater comfort in all situations. Wide, semi-rigid waistbelt and leg loops give excellent support. Its lightweight, breathable construction maximizes air flow. The shoulder straps have a system for stowing the fall arrest lanyard connectors and keeping them within reach. The DOUBLEBACK self-locking buckles at the rear of the harness, between the waistbelt and the leg loops, allow for a shorter adjustment when the dorsal attachment point is used. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. The harness has an integrated fall indicator on the dorsal attachment point and is fastened with a TRIACT-LOCK automatic locking carabiner. It is certified to North American and European standards. AVAO BOD features leg loops with DOUBLEBACK self-locking buckles; AVAO BOD FAST has leg loops with FAST automatic buckles.

TOP

Chest harness for seat harness

The TOP chest harness transforms AVAO SIT, AVAO SIT FAST, FALCON, FALCON MOUNTAIN and SEQUOIA SRT seat harnesses into fall arrest harnesses. The foam shoulder straps are widely spaced to reduce neck chafing. When the waistbelt is loaded, they help distribute the load over the shoulders. They also have a system for stowing the fall-arrest lanyard connectors and keeping them within reach.

AVAO® SIT / AVAO® SIT FAST

Comfortable seat harness for work positioning and suspension

The AVAO SIT work positioning and suspension seat harness is designed for greater comfort in a variety of situations. Wide, semi-rigid waistbelt and leg loops give excellent support. Its lightweight, breathable construction maximizes air flow. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. This seat harness is designed to be converted into a fall arrest harness when combined with a TOP chest harness, or into a rope access harness when combined with a TOP CROLL S or L chest harness. The AVAO SIT has leg loops with DOUBLEBACK self-locking buckles; AVAO SIT FAST leg loops have FAST automatic buckles.

Rope access harnesses

Designed for rope access, these harnesses allow the worker to be protected in case of a fall and to position him/herself at the work station. The gated ventral attachment point facilitates rope ascents and makes work in suspension more comfortable.

• Optimal integration of equipment

The gated attachment point allows connection of:
- a CROLL ventral rope clamp on the ventral point for greater efficiency on rope ascents
- a PROGRESS lanyard directly to the ventral attachment point
- a PODIUM seat on the axle of the attachment point, allowing the load to be supported directly by the descender, while guaranteeing mobility at the ventral attachment point

• Optimal organization of work tools

ASTRO harnesses are equipped with six equipment loops on the sides and at the rear of the waistbelt. They are shaped to facilitate clipping carabiners. Each harness also has retainers designed for the CARITOOL tool holder and the TOOLBAG pouch.

• Ultra-comfortable design

The waistbelt and the leg loops of ASTRO harnesses are semi-rigid and wide in order to limit pressure points and ensure effective support. These two zones are sculpted and lined with breathable foam padding for optimal comfort in suspension and good ventilation. This construction also facilitates harness donning.

• Convenient adjustment

Easy to don

The leg loops of ASTRO harnesses are equipped with FAST/FAST LT automatic buckles that facilitate donning the harness with feet on the ground or with large footwear, without loss of adjustment, even when wearing gloves.

Easy to adjust

The waistbelt and shoulder straps are equipped with self-locking DOUBLEBACK/ DOUBLEBACK PLUS buckles for quick and easy adjustment.

• A complete solution, with dorsal attachment point

ASTRO BOD FAST full-body harnesses are equipped with a dorsal attachment point for attaching a fall arrest system. In case of a fall on this attachment point, a shortened adjustment of the waistbelt to leg loop length means the load is taken up on the leg loops, allowing the user to remain suspended longer while awaiting rescue.

• A lightweight and flexible solution

Combining a seat harness with a separate chest harness is a more lightweight solution, if the user does not need a dorsal attachment point. It is also a solution for hard-to-fit body types, as it allows combining different seat and chest harness sizes.

ASTRO® BOD FAST European version

Ultra-comfortable rope access harness

With an integrated CROLL L ventral rope clamp, the ASTRO BOD FAST harness is designed for greater efficiency and comfort during rope ascents. The gated ventral attachment point allows optimal integration of equipment (rope clamp, lanyard, seat...). Wide, semi-rigid waistbelt and leg loops give excellent support. They are contoured and lined with breathable foam padding for comfort when suspended.
The DOUBLEBACK self-locking buckles at the rear of the harness, between the waistbelt and the leg loops, allow for a shorter adjustment when the dorsal attachment point is used. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. It is certified to European and Russian standards. The ASTRO BOD FAST European version features leg loops with FAST LT automatic buckles.

NEW 2019

ASTRO® BOD FAST international version

Ultra-comfortable rope access harness

With an integrated CROLL L ventral rope clamp, the ASTRO BOD FAST harness is designed for greater efficiency and comfort during rope ascents. The gated ventral attachment point allows optimal integration of equipment (rope clamp, seat...). Wide, semi-rigid waistbelt and leg loops give excellent support. They are contoured and lined with breathable foam padding for comfort when suspended.
The DOUBLEBACK self-locking buckles at the rear of the harness, between the waistbelt and the leg loops, allow for a shorter adjustment when the dorsal attachment point is used. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. It has a fall indicator on the dorsal attachment point and is certified to North American and European standards. ASTRO BOD FAST international version features leg loops with FAST automatic buckles.

TOP CROLL® S

Chest harness for seat harness, with integrated CROLL S ventral rope clamp

The TOP CROLL S integrates a CROLL S ventral rope clamp to transform ASTRO SIT FAST, AVAO SIT, AVAO SIT FAST, FALCON and FALCON ASCENT harnesses into rope access harnesses. The textile sternal attachment point optimally reduces weight and bulk. The foam shoulder straps are widely spaced to reduce neck chafing. When the waistbelt is loaded, they help distribute the load over the shoulders.
The rear connection, on each side of the waistbelt, offers excellent stability.

TOP CROLL® L

Chest harness for seat harness, with integrated CROLL L ventral rope clamp

The TOP CROLL L integrates a CROLL L ventral rope clamp to transform ASTRO SIT FAST, AVAO SIT, AVAO SIT FAST, FALCON, FALCON ASCENT and SEQUOIA SRT harnesses into rope access harnesses. The foam shoulder straps are widely spaced to reduce neck chafing. When the waistbelt is loaded, they help distribute the load over the shoulders.

ASTRO® SIT FAST

Ultra-comfortable rope access seat harness

The ASTRO SIT FAST rope access seat harness features a gated ventral attachment point that allows optimal integration of equipment (rope clamp, lanyard, seat...). Wide, semi-rigid waistbelt and leg loops give excellent support. They are contoured and lined with breathable foam padding for comfort when suspended.
The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders and TOOLBAG tool-holder pouches. This seat harness is designed to be converted into a full body harness when combined with a TOP CROLL S or L chest harness.
The ASTRO SIT FAST features leg loops with FAST LT automatic buckles.

Accessory

PODIUM

Seat for prolonged suspension

The PODIUM provides optimal comfort during prolonged suspension. The wide seat offers excellent stability. Rigid sides prevent the webbing straps from cutting into the thighs. The easy-to-use seat has two equipment loops and a rear hook, making it easier to store in order to facilitate movement. It connects to ASTRO BOD FAST and ASTRO SIT FAST harnesses with two shackles (find a description of the shackles on page 63).

Tree care harnesses

These harnesses are designed for arborists: they ensure great mobility in the tree and optimally distribute the load between the waistbelt and the leg loops. They also provide excellent lumbar support in the many work phases where the arborist has his/her weight on the harness.

• Comfort

The semi-rigid, extra-wide waistbelt ensures excellent support for the user. It is also sculpted and lined with foam padding for improved comfort when suspended.

• Ergonomics

Gated attachment points

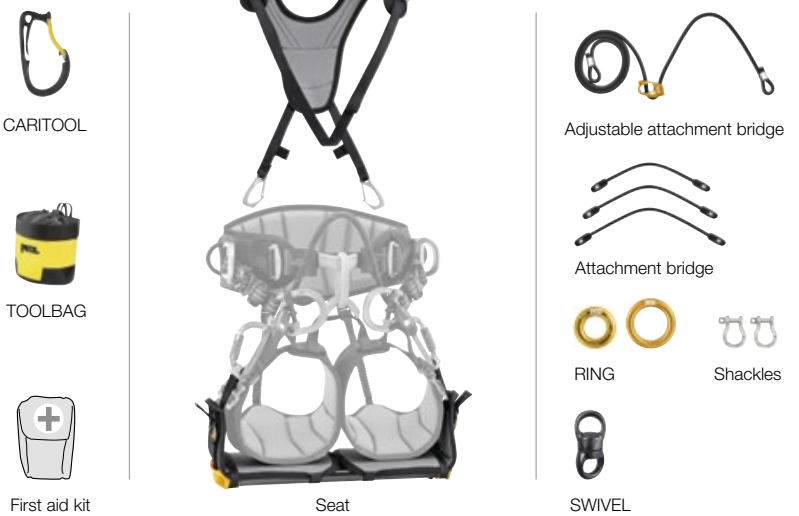
The gated attachment points facilitate connection of a ZILLON or MICROFLIP lanyard. They also allow installation of several attachment bridges (adjustable or fixed), as well as accessories like RING attachment rings or SWIVELs, directly on the attachment bridge.

Easy to don

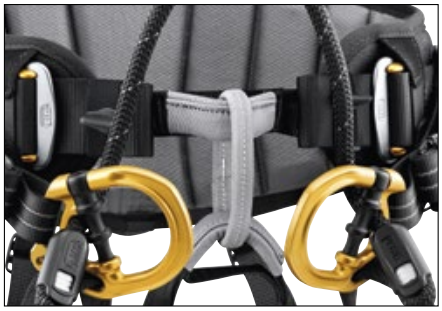
The leg loops of SEQUOIA harnesses are equipped with FAST/FAST LT automatic buckles that facilitate donning the harness with feet on the ground or with large footwear, without loss of adjustment, even when wearing gloves.

• Accessories

Accessories for the SEQUOIA line of harnesses allow each user to adapt the equipment to his/her needs.



• For single rope ascent techniques



The SEQUOIA SRT features a ventral attachment point for installing a ZIGZAG mechanical Prusik with the CHICANE and KNEE ASCENT accessories.

• For doubled rope ascent techniques

The SEQUOIA harness waistbelt is equipped with a FAST automatic buckle for quick and simple opening and closing, without loss of adjustment, even while wearing gloves.

NEW 2019

SEQUOIA SRT

Tree care seat harness for single rope ascent techniques

The SEQUOIA SRT is a tree care seat harness for ascents on a single rope. It has a ventral attachment point that allows a ZIGZAG or ZIGZAG PLUS mechanical Prusik to be installed with the CHICANE and KNEE ASCENT accessories. The extra-wide, semi-rigid waistbelt and leg loops provide comfort for the arborist. It is equipped with DOUBLEBACK PLUS self-locking buckles on the waistbelt and FAST LT PLUS automatic buckles on the leg loops. The gated attachment points allow the user to easily connect a ZILLON or MICROFLIP lanyard, or to install several attachment bridges and accessories directly on the bridge. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders.

NEW 2019

SEQUOIA

Tree care seat harness for doubled-rope ascent techniques

The SEQUOIA is a tree care seat harness for doubled-rope ascent techniques. The extra-wide, semi-rigid waistbelt and leg loops provide comfort for the arborist. The waistbelt is equipped with a FAST automatic buckle for quick and simple opening and closing, without loss of adjustment, even while wearing gloves. The leg loops have FAST LT PLUS automatic buckles. The gated attachment points allow the user to easily connect a ZILLON or MICROFLIP lanyard, or to install several attachment bridges and accessories directly on the bridge. The harness also facilitates the carrying and organizing of work tools, with multiple equipment loops and retainers for attaching CARITOOL tool holders.

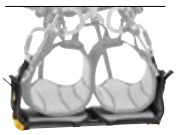
Accessories

NEW 2019

Shoulder straps (only for SEQUOIA SRT)

Shoulder straps for SEQUOIA SRT seat harness designed for taking the load from the waistbelt and redistributing it to the shoulders for improved comfort. They connect to the ventral attachment point of the harness and to the two slots at the rear of the waistbelt.

NEW 2019



Seat

Wide seat for a comfortable working position during suspension. It has an adjustable width to reduce bulk and facilitate movement within the tree. It connects to the two gated points on the SEQUOIA and SEQUOIA SRT arborist seat harnesses, using the two shackles.

Adjustable attachment bridge

Adjustable attachment bridge for SEQUOIA and SEQUOIA SRT harnesses allows quick and precise adjustment of the position of progression tools installed on the bridge.

NEW 2019

Attachment bridge

Attachment bridge for connection to the two gated attachment points of the SEQUOIA and SEQUOIA SRT arborist seat harnesses, to optimize lateral mobility.

RING

The RING connection ring can be used to create multiple anchors or be installed directly onto the SEQUOIA and SEQUOIA SRT harnesses' attachment bridges to improve the arborist's lateral mobility.

Shackles

Shackles for connecting a seat.
Find a description of the shackles on page 63.

Rescue harnesses

These harnesses, designed for rescuers, are lightweight for increased mobility and rapid movement during operations. The choice of several models allows adaptation to the different types of environments that can be encountered.

• Comfortable, ultra-lightweight design

Thin, lightweight construction
The semi-rigid, slim waistbelt and leg loops on FALCON harnesses ensure an optimal comfort/weight ratio.

Compact, lightweight side attachment points
The textile side attachment points are designed for occasional use and limit bulk and weight.

• Ergonomics

Easy adjustment
The waistbelt and leg loops are equipped with two self-locking DOUBLEBACK buckles for quick and easy adjustment.

Movable leg loops
The foam on the leg loops of the FALCON harness can be adjusted for perfect positioning.

• Optimal organization of equipment and work tools

Equipment loops and retainers
FALCON harnesses are equipped with equipment loops on the sides and at the rear of the waistbelt. Each harness also has retainers designed for the CARITOOL tool holder and the TOOLBAG pouch.

• For work in suspension

The metal ventral attachment point on the FALCON harness distributes the load between the waistbelt and the leg loops during suspension.

• For efficiency when ascending a rope

The two-part ventral attachment point of the FALCON ASCENT harness increases the efficiency of rope ascents when using a CROLL ventral rope clamp.

• For operations using climbing techniques

The textile bridge construction of the FALCON MOUNTAIN harness favors progression with climbing techniques and makes for comfortable walking.

FALCON

Lightweight seat harness for suspended rescue

FALCON is a lightweight seat harness with a metal ventral attachment point that distributes the load between the waistbelt and the leg loops during suspended rescue. It has a waistbelt and leg loops that are semi-rigid for comfort and equipped with self-locking DOUBLEBACK buckles for quick and easy adjustment. The rear buckle allows a TOP or TOP CROLL chest harness to be installed.

FALCON ASCENT

Lightweight seat harness for rescue operations involving rope ascent

FALCON ASCENT is a lightweight seat harness featuring a two-part ventral attachment point that fastens with an OMNI carabiner. This attachment point makes it more efficient during rescue operations involving rope ascent. The FALCON ASCENT harness features a semi-rigid waistbelt and leg loops for maximum comfort and self-locking DOUBLEBACK buckles for quick and easy adjustment. The rear buckle allows a TOP CROLL chest harness to be installed.

FALCON MOUNTAIN

Very lightweight seat harness for rescue operations involving technical climbing

FALCON MOUNTAIN is a very lightweight seat harness for rescue operations involving technical climbing. It features a bridge construction that favors progression with climbing techniques and makes it comfortable when walking. It has a waistbelt and leg loops that are semi-rigid for comfort and equipped with self-locking DOUBLEBACK buckles for quick and easy adjustment. The rear buckle allows a TOP chest harness to be installed.

Accessory

CHEST'AIR

Chest harness for seat harnesses

The CHEST'AIR chest harness transforms FALCON, FALCON MOUNTAIN, AVAO SIT and SEQUOIA SRT seat harnesses into fall arrest harnesses. Connects simply to the harness ventral attachment point for rapid installation. It adapts easily to all body types with its DOUBLEBACK self-locking buckles on the shoulder straps and ventral strap.

Litter and evacuation triangles

Rescue litter

NEST

Litter for confined spaces

The NEST litter was developed in partnership with the French national caving rescue organization. It allows a victim to be transported horizontally, vertically or at an angle. It is therefore suitable for all technical rope rescue, particularly in confined spaces.

STEF

Tilting device for NEST litter

The STEF device joins the three connection points of the NEST litter and allows it to be easily tilted according to the terrain.

Accessory

Bag for NEST litter

Evacuation triangles

Evacuation triangles are mainly used for rescue on ski lifts and by firefighters.
They allow unequipped people to be evacuated in minimal time.

PITAGOR

Evacuation triangle with shoulder straps

The PITAGOR is an evacuation triangle with shoulder straps that are easily donned and adjusted thanks to the DOUBLEBACK self-locking buckles.

BERMUDE

Evacuation triangle without shoulder straps

The BERMUDE is an evacuation triangle without shoulder straps that is easily put on and adapts without adjustment to different sizes.

LIFT

Spreader for NEWTON harness (European version)

Spreader for NEWTON harness (European version) allows upright descent (for confined spaces).

NEW 2019

CARITOOL

Harness tool holder

The CARITOOL tool holder provides one-handed tool access and storage. It slips onto the harness straps and stays in place, thanks to its stabilizing clip. The gate has a protective feature that limits accidental snagging. It is available in two sizes.

NEW 2019

TOOLBAG

Tool pouch

The TOOLBAG tool pouch allows the user to organize his/her tools during suspended work. The cord lock allows the pouch to be closed easily during transport or when moving about. The pouch attaches easily to any type of harness. Available in three sizes: XS, S and L.

RING OPEN

Multidirectional gated ring

See page 102 for details on the RING OPEN gated ring.

Shackles

Shackles for connecting a seat. Connection to the gated ventral attachment point of the harnesses ensures optimal integration of equipment.

General purpose harnesses

			European versions		International versions	
			References	Certifications	References	Certifications
Fall arrest harnesses						
NEWTON		NEWTON	C73AAA 1	CE EN 361 EAC	C73AAA 1U	CE EN 361 EAC, ANSI Z359.11 CSA Z259.10
			C73AAA 2		C73AAA 2U	
		NEWTON EASYFIT	C73JFA 0	CE EN 361 EAC	C73JFA 0U	CE EN 361 EAC, ANSI Z359.11 CSA Z259.10
			C73JFA 1		C73JFA 1U C73JFN 1U (1)	
			C73JFA 2		C73JFA 2U C73JFN 2U (1)	
		NEWTON EASYFIT HI-VIZ	-	-	C73JFV 1U	CE EN 361, EN ISO 20471, EAC ANSI Z359.11, ANSI 107 CSA Z259.10, CSA Z96-15
					C73JFV 2U	
Fall arrest and work positioning harnesses						
VOLT		VOLT	C72AFA 0	CE EN 361 EN 358 EAC	C72AFA 0C	CE EN 361 EN 358 CSA Z259.10
			C72AFA 1		C72AFA 1C	
			C72AFA 2		C72AFA 2C	
		VOLT WIND	C72WFA 0		C72WFA 0C	
			C72WFA 1		C72WFA 1C	
			C72WFA 2		C72WFA 2C	
		VOLT LT	-	-	C72AFA 0U	CE EN 361 EN 358 ANSI Z359.11
					C72AFA 1U	
					C72AFA 2U	
		VOLT WIND LT	-	-	C72WFA 0U	
					C72WFA 1U	
					C72WFA 2U	
Seat for VOLT harnesses			C72100	CE EN 358 (3)	-	-
Harnesses for fall arrest, work positioning and suspension						
AVAO BOD European version NEW 2019 AVAO BOD international version		AVAO BOD	C071AA00	CE EN 361 EN 358 EN 813 EAC	C071CA00	ANSI Z359.11 NFPA 1983 class III CSA Z259.10 CE EN 361 EN 358 EN 813
			C071AA01		C071CA01	
			C071AA02		C071CA02	
		AVAO BOD FAST	C071BA00 C071BA03 (1)		C071DA00 C071DA03 (1)	
			C071BA01 C071BA04 (1)		C071DA01 C071DA04 (1)	
			C071BA02 C071BA05 (1)		C071DA02 C071DA05 (1)	
TOP			C081AA00 C081AA01 (1)	CE EN 361 (2) EAC	-	-
AVAO SIT		AVAO SIT	C079AA00 C079AA02 (1)	CE EN 358 EN 813 EAC	-	-
			C079AA01 C079AA03 (1)			
		AVAO SIT FAST	C079BA00			
			C079BA01			
			C079BA02			

Attachment points				Sizes				Weight
dorsal	sternal	ventral	side	Size	Belt	Leg loops	Height	
●	●	-	-	1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1050 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1080 g
●	●	-	-	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1240 g
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1300 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1350 g
●	●	-	-	1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1360 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1410 g
●	●	-	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1955 g (4)
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	2000 g (4)
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2080 g (4)
●	●	-	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	2055 g (4)
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	2100 g (4)
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2180 g (4)
●	●	-	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1850 g
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1895 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2000 g
●	●	-	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1965 g
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	2010 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2115 g
-	-	-	-		-	-	-	1045 g
●	●	●	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	2045 g / 2215 g (5)
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	2090 g / 2260 g (5)
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2170 g / 2340 g (5)
●	●	●	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	2000 g / 2350 g (5)
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	2045 g / 2400 g (5)
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	2125 g / 2485 g (5)
-	●	-	-	-	-	-	160 - 200 cm	660 g
-	-	●	●	1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1175 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1190 g
-	-	●	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1115 g
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1130 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1145 g

(1) black harness, (2) with AVAO SIT harness, (3) with VOLT harness, (4) not including weight of OXAN connector for CSA certified versions, (5) weight of international version

Specialized harnesses

		European versions		International versions	
		References	Certifications	References	Certifications
Rope access harnesses					
ASTRO BOD FAST European version		C083AA00	CE EN 361 EN 358 EN 813 EN 12841 type B EAC	C083BA00 C083BA03 (1)	ANSI Z359.11 NFPA 1983 class III CSA Z259.10 CE EN 361 EN 358 EN 813 EN 12841 type B
NEW 2019 ASTRO BOD FAST international version		C083AA01		C083BA01 C083BA04 (1)	
		C083AA02		C083BA02 C083BA05 (1)	
TOP CROLL S		C081BA00	CE EN 361 (2) EN 12841 type B EAC	-	-
TOP CROLL L		C081CA00	CE EN 361 (3) EN 12841 type B EAC	-	-
ASTRO SIT FAST		C085AA00	CE EN 358 EN 813 EAC	-	-
		C085AA01			
		C085AA02			
PODIUM		S071AA00	-	-	-
Tree care harnesses					
NEW 2019 SEQUOIA		SEQUOIA SRT	C069BA00	CE EN 358 EN 813 EAC	-	-
			C069BA01			
			C069BA02			
		SEQUOIA	C069AA00			
			C069AA01			
			C069AA02			
NEW 2019 Shoulder straps			C069DA00	-	-	-
NEW 2019 Seat			S069AA00	-	-	-
Adjustable attachment bridge			C69R	-	-	-
NEW 2019 Attachment bridge		40 cm	C069CA00	-	-	-
		45 cm	C069CA01			
		50 cm	C069CA02			
Rescue harnesses						
FALCON		FALCON	C038AA00	CE EN 358 EN 813 EAC	-	-
			C038AA01 C038AA03 (1)			
			C038AA02 C038AA04 (1)			
		FALCON ASCENT	C038BA00	CE EN 358 EN 813 EAC	-	-
			C038BA01			
		FALCON MOUNTAIN	C038CA00	CE EN 358, EN 813 EN 12277 type C EAC	-	-
			C038CA01			
CHEST'AIR			C98A	CE EN 361 (4) EN 12277 type D	-	-
Litter and evacuation triangles						
NEST			S61	-	-	-
STEF			S59	-	-	-
Bag for NEST litter			S62	-	-	-
PITAGOR			C80 BR	EN 1497, EN 1498	-	-
BERMUDE			C80	EN 1498	-	-
Harness accessories						
LIFT			L54	CE	-	-
NEW 2019 CARITOOL			P042AA00	-	-	-
			P042AA01			
TOOLBAG		NEW 2019	S047AA00	-	-	-
			S47Y S	-	-	-
			S47Y L	-	-	-
RING OPEN			P28	CE EN 362	-	-
Shackles			C087AA00	-	-	-

Attachment points				Sizes				Weight
dorsal	sternal	ventral	side	Size	Belt	Leg loops	Height	
●	●	●	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1855 g / 2480 g (4)
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1900 g / 2530 g (4)
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1980 g / 2620 g (4)
-	●	-	-	-	-	-	160 - 200 cm	515 g
-	●	-	-	-	-	-	160 - 200 cm	600 g
-	-	●	●	0	65 - 80 cm	44 - 59 cm	160 - 180 cm	1025 g
				1	70 - 93 cm	47 - 62 cm	165 - 185 cm	1040 g
				2	83 - 120 cm	50 - 65 cm	175 - 200 cm	1055 g
-	-	-	-	-	-	-	-	1060 g
-	-	●	●	0	65 - 80 cm	44 - 59 cm	-	1580 g
				1	70 - 93 cm	47 - 62 cm	-	1630 g
				2	83 - 120 cm	50 - 65 cm	-	1700 g
-	-	-	●	0	65 - 80 cm	44 - 59 cm	-	1480 g
				1	70 - 93 cm	47 - 62 cm	-	1530 g
				2	83 - 120 cm	50 - 65 cm	-	1600 g
-	-	-	-	-	-	-	-	190 g
-	-	-	-	-	-	-	-	885 g
-	-	-	-	-	-	-	-	220 g
-	-	-	-	S	-	-	-	65 g
				M				70 g
				L				75 g
-	-	●	●	0	65 - 80 cm	44 - 59 cm	-	840 g
				1	70 - 93 cm	47 - 62 cm	-	855 g
				2	83 - 120 cm	50 - 65 cm	-	885 g
-	-	●	●	1	70 - 93 cm	47 - 62 cm	-	765 g
				2	83 - 120 cm	50 - 65 cm	-	795 g
-	-	●	●	1	70 - 93 cm	47 - 62 cm	-	810 g
				2	83 - 120 cm	50 - 65 cm	-	840 g
-	●	-	-		-	-	160 - 200 cm	495 g
-	-	-	-	-	-	-	-	12800 g
-	-	-	-	-	-	-	-	600 g
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	1290 g
-	-	-	-	-	-	-	-	795 g
-	-	-	-	-	-	-	-	520 g
-	-	-	-	S	-	-	-	35 g
				L				75 g
-	-	-	-	XS (1.3 l)	-	-	-	105 g
-	-	-	-	S (2.5 l)	-	-	-	170 g
-	-	-	-	L (5 l)	-	-	-	240 g
-	-	-	-	-	-	-	-	70 g
-	-	-	-	-	-	-	-	20 g

(1) black harness, (2) with ASTRO SIT FAST, AVAO SIT, AVAO SIT FAST, FALCON, FALCON ASCENT harnesses,
(3) with ASTRO SIT FAST, AVAO SIT, AVAO SIT FAST, FALCON, FALCON ASCENT, SEQUOIA SRT harnesses, (4) international version.

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Comfortable helmets

Helmets with webbing suspension for optimal comfort.

NEW 2019

VERTEX

VERTEX HI-VIZ

NEW 2019

VERTEX VENT

VERTEX VENT HI-VIZ

Lightweight helmets

Lightweight, compact helmet with hybrid construction liner (EPP and EPS foams).

NEW 2019

STRATO

STRATO HI-VIZ

NEW 2019

STRATO VENT

STRATO VENT HI-VIZ

Protective eye and face shields

Protective eye and face shields for VERTEX and STRATO helmets.

NEW 2019

VIZIR

NEW 2019

VIZIR SHADOW

NEW 2019

Protector for VIZIR and VIZIR SHADOW

NEW 2019

VIZEN

NEW 2019

VIZEN MESH

Accessories

NEW 2019

Nametag holder

NEW 2019

Nape protector

NEW 2019

Protector for helmet

NEW 2019

Storage bag

NEW 2019

DUAL chinstrap

NEW 2019

Headband with comfort foam

NEW 2019

Comfort foam

NEW 2019

Upper foam for STRATO helmet

Transparent stickers

NEW 2019

Reflective stickers

Hats and balaclava

Hats and balaclava for protection against rain and cold.

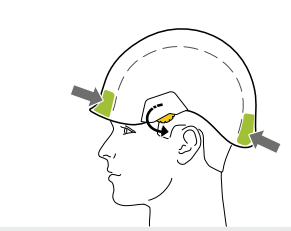
LINER

BEANIE

BALACLAVA

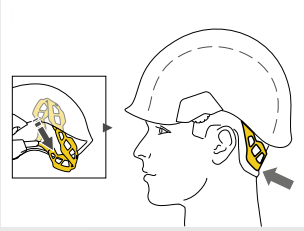
Essential for work at height and certain industrial activities, helmets give the user effective protection from falling objects, or if the person him/herself falls. Thanks to a very secure fit on the head, Petzl helmets are comfortable to wear in any situation. With a complete line of entirely modular accessories, they meet the diverse needs of professionals.

• Excellent fit on the head



CENTERFIT adjustment

The CENTERFIT adjustment system allows the helmet to be perfectly centered on the head. The headband is easy to adjust by simultaneously rotating the two side adjustment wheels, even while wearing gloves.



FLIP&FIT system

The FLIP&FIT system immediately positions the headband in a low position, to guarantee that the helmet fits securely on the head. The headband folds into the shell for easy storage and transport.

• DUAL chinstrap strength is adjustable, to adapt to any work situation

The DUAL chinstrap allows the worker to adjust chinstrap strength in order to adapt the helmet to different environments: work at height (EN 12492) or on the ground (EN 397). The clip has two positions, corresponding to the following two uses:
- higher strength to limit the risk of the helmet coming off in a fall (strength > 50 daN)
- lower strength to limit the risk of strangulation, by releasing if snagged when user is at ground level (strength < 25 daN)

Solution for different protection needs

		Helmets with unventilated external shell		Helmets with ventilated external shell	
		VERTEX	STRATO	VERTEX VENT	STRATO VENT
PENETRATION PROTECTION IMPACT PROTECTION	Protection against falling objects	•		•	
VENTILATION	Ventilation holes allow airflow through the helmet	-		•	
ELECTRICAL PROTECTION	Protection against electrical hazards	•		-	
MOLTEN METAL PROTECTION	Protection against molten metal splash	•		•	-
LATERAL DEFORMATION	Protection against lateral deformation	•		•	

• Modular accessories

Extensive line of protective eye and face shields, headlamps and accessories

- eye shields, face shields for protection against electric arc hazards, specific shields for tree care
- headlamps for lighting
- nametag holder, nape protector, helmet protectors, chinstraps

• Multiple choices

Available in assorted colors

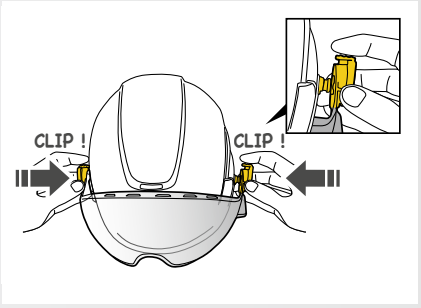
VERTEX helmets are available in seven standard colors; STRATO helmets are available in four colors.
VERTEX and STRATO helmets are also available in two HI-VIZ versions, with a fluorescent outer shell (yellow or orange), phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

Multiple certifications

Depending on the model, Petzl helmets meet the requirements for the following certifications:
- European EN 397, EN 12492 and EN 50365
- American ANSI Z89.1
- Canadian CSA Z94.1
- Russian EAC
- Australian AS/NZ 1801

• Easy to install, very modular

All Petzl helmets can be adapted to the additional needs for protection or lighting in just a few seconds, thanks to the EASYCLIP system and a variety of inserts.



EASYCLIP

The EASYCLIP system allows quick installation of a protective shield. EASYCLIP is easy to install and is compatible with all Petzl helmets and shields. It comes with every protective eye and face shield.

• Customization by request

Petzl can personalize your VERTEX and STRATO helmets with:
- a logo or specific marking
- a page of reflective stickers

To learn more, please contact your Petzl distributor.

• Comfortable construction

VERTEX helmets have a six-point webbing suspension system, conforming to the shape of the head for maximum comfort. Shock absorption is achieved through deformation of the external shell.

• Lightweight construction

The liner of STRATO helmets is designed in two parts: EPP (expanded polypropylene) and EPS (expanded polystyrene), for reduced weight. Shock absorption is achieved through deformation of the liner.

NEW 2019

VERTEX®

Comfortable helmet

The VERTEX helmet is very comfortable, thanks to its six-point textile suspension and CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. The adjustable-strength chinstrap makes it ideal for both work at height and on the ground. The unventilated outer shell protects against electrical hazards, molten metal splash and flames. With its potential for integration of a Petzl headlamp, hearing protection, and multiple accessories, it is an entirely modular helmet, thus meeting the specific additional needs of professionals.

NEW 2019

VERTEX® HI-VIZ

Comfortable high-visibility helmet

The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

NEW 2019

VERTEX® VENT

Comfortable ventilated helmet

The VERTEX VENT helmet is very comfortable, thanks to its six-point textile suspension and CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. The adjustable-strength chinstrap makes it ideal for both work at height and on the ground. It has ventilation holes with sliding shutters to allow airflow through the helmet. With its potential for integration of a Petzl headlamp, hearing protection, and multiple accessories, it is an entirely modular helmet, thus meeting the specific additional needs of professionals.

NEW 2019

VERTEX® VENT HI-VIZ

Comfortable, ventilated high-visibility helmet

The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

NEW 2019

STRATO

Lightweight helmet

The STRATO helmet is very lightweight and comfortable, thanks to its CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. The adjustable-strength chinstrap makes it ideal for both work at height and on the ground. The unventilated outer shell protects against electrical hazards, molten metal splash and flames. With its potential for integration of a Petzl headlamp, hearing protection, and multiple accessories, it is an entirely modular helmet, thus meeting the specific additional needs of professionals.

NEW 2019

STRATO HI-VIZ

Lightweight high-visibility helmet

The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

NEW 2019

STRATO VENT

Lightweight ventilated helmet

The STRATO VENT helmet is very lightweight and comfortable, thanks to its CENTERFIT and FLIP&FIT systems, which guarantee that the helmet fits securely on the head. The adjustable-strength chinstrap makes it ideal for both work at height and on the ground. It has ventilation holes that allow airflow through the helmet. With its potential for integration of a Petzl headlamp, hearing protection, and multiple accessories, it is an entirely modular helmet, thus meeting the specific additional needs of professionals.

NEW 2019

STRATO VENT HI-VIZ

Lightweight, ventilated high-visibility helmet

The high visibility version features a fluorescent outer shell with phosphorescent clips and reflective bands, for optimal visibility of the worker, day or night.

Protective eye and face shields

NEW 2019

VIZIR

Eye shield with EASYCLIP system for VERTEX and STRATO helmets

The VIZIR eye shield protects the eyes against projectile hazards. It is easy to install on VERTEX and STRATO helmets with the EASYCLIP attachment system. It also has scratch-resistant and anti-fog coatings.

NEW 2019

VIZIR SHADOW

Tinted eye shield with EASYCLIP system for VERTEX and STRATO helmets

The VIZIR SHADOW eye shield provides eye protection against projectile hazards. It is easy to install on VERTEX and STRATO helmets with the EASYCLIP attachment system. It has a level 2.5 solar protection filter, and anti-scratch and anti-fog treatments.

NEW 2019

Protector for VIZIR and VIZIR SHADOW

The protector for VIZIR and VIZIR SHADOW protects the eye shields from scratches. It is installed directly on the VIZIR and VIZIR SHADOW eye shields. It allows a Petzl headlamp to be worn, thanks to a mounting slot on the protector.

NEW 2019

VIZEN

Face shield for protection against electric arc hazards, with EASYCLIP system for VERTEX and STRATO helmets

The VIZEN face shield protects against electric arc hazards. This full-coverage shield offers face and eye protection while preserving peripheral vision. It is easily installed on VERTEX and STRATO helmets, thanks to the EASYCLIP attachment system. It also has scratch-resistant and anti-fog coatings.

NEW 2019

VIZEN MESH

Face shield for tree care for VERTEX and STRATO helmets, with EASYCLIP system

The VIZEN MESH face shield protects against flying wood chips and shavings. This full-coverage shield offers complete face protection while ensuring good visibility. It is easily installed on VERTEX and STRATO helmets, thanks to the EASYCLIP attachment system.

NEW 2019

Mounting clips for welding mask

Mounting clips allow a Bollé welding mask to be installed.

NEW 2019

Mounting clip for welding face shield

Mounting clip allows a Bollé welding face shield to be installed.

NEW 2019

Nametag holder for VERTEX® and STRATO helmets

The nametag holder for VERTEX and STRATO helmets allows quick identification of the worker.
It is easy to install and provides effective rain protection for business cards.

NEW 2019

Nape protector for VERTEX® and STRATO helmets

The nape protector for VERTEX and STRATO helmets provides effective sun and rain protection for the nape of the neck. Fluorescent colors give the worker optimal visibility, night and day.
Available in two colors.

NEW 2019

Protector for VERTEX® helmet

The protector for the VERTEX helmet is easy to install and protects the shell from soiling and splash.

NEW 2019

Protector for STRATO helmet

The protector for the STRATO helmet is easy to install and protects the shell from soiling and splash.

NEW 2019

Storage bag for VERTEX® and STRATO helmets

Storage bag to protect VERTEX and STRATO helmets during storage and transport.
Thanks to a closed interior compartment, accessories are also protected.

NEW 2019

DUAL chinstrap for VERTEX® and STRATO helmets

This chinstrap allows the chinstrap of VERTEX and STRATO helmets to be changed or replaced.
It allows the worker to modify chinstrap strength in order to adapt the helmet to different environments: work at height or on the ground. Available in two colors and in a longer version.

Accessories

NEW 2019

Headband with comfort foam for VERTEX® and STRATO helmets

Headband with comfort foam for VERTEX and STRATO helmets (pack of 5)

Ready to install headband with comfort foam (standard or absorbent), to extend the life of a VERTEX or STRATO helmet.

NEW 2019

Comfort foam for VERTEX® and STRATO helmets

Comfort foam (standard or absorbent), ready to install on headband of a VERTEX or STRATO helmet, to prolong its life.

NEW 2019

Upper foam for STRATO helmet

Upper foam installs on the liner of the STRATO helmet, to extend its life. It is comfortable, absorbent and machine-washable.

Transparent stickers for VERTEX® and STRATO helmets

Transparent stickers allow VERTEX and STRATO helmets to be personalized using a permanent marker or laser printer.

NEW 2019

Reflective stickers for VERTEX®

Reflective stickers for increased visibility of VERTEX helmets.

NEW 2019

Reflective stickers for STRATO

Reflective stickers for increased visibility of STRATO helmets.

Hats and balaclava

PETZL by Buff

Buff® is a trademark and property of Original Buff®

LINER

Breathable cap for wicking perspiration

LINER is a breathable cap for wicking perspiration and drying quickly. The seamless fitted design makes it comfortable to wear under a helmet, without getting in the way.

BEANIE

Protective cap for cold and wind

BEANIE is a cap that protects the head on cold and windy days. The design, specific to each zone, optimizes thermal insulation and regulates moisture. The seamless fitted design and side vents make it comfortable to wear under a helmet, without getting in the way.

BALACLAVA

Balaclava for protection against cold and wind

BALACLAVA protects the head, the face and the neck on cold, windy days. The design, specific to each zone, optimizes thermal insulation and regulates moisture. The seamless fitted design and multiple side vents make it comfortable to wear under a helmet, without getting in the way.

		Certifications	Weight
Eye and face shields			
NEW 2019 VIZIR	A015AA00	CE EN 166, 1BT, ANSI Z87.1, EAC	80 g
NEW 2019 VIZIR SHADOW	A015BA00	CE EN 166, 1BT, CE EN 172, 5-2,5, ANSI Z87.1, EAC	80 g
NEW 2019 Protector for VIZIR and VIZIR SHADOW	A015CA00	-	75 g
NEW 2019 VIZEN	A014AA00	CE EN 166, 1BT8, CE EN 170, 2C-1,2, GS ET-29, Class 1, ANSI Z87.1, EAC	180 g
NEW 2019 VIZEN MESH	A021AA00	CE EN 1731, S, ANSI Z87.1, EAC	115 g
NEW 2019 Mounting clips for welding mask	A017AA00	-	-
NEW 2019 Mounting clip for welding face shield	A014BA00	-	-

		Color	Version	Weight
Accessories				
NEW 2019 Nametag holder for VERTEX and STRATO helmets	A018AA00	-	-	45 g
NEW 2019 Nape protector for VERTEX and STRATO helmets	A019AA00	yellow	-	55 g
	A019AA01	orange		
NEW 2019 Protector for VERTEX helmet	A012AA00	-	-	60 g
NEW 2019 Protector for STRATO helmet	A012BA00	-	-	60 g
NEW 2019 Storage bag for VERTEX and STRATO helmets	A022AA00	-	-	175 g
NEW 2019 DUAL chinstrap for VERTEX and STRATO helmets	A010FA00	yellow / black	standard	35 g
	A010FA01	black	standard	
	A010FA02	yellow / black	extended	
NEW 2019 Headband with comfort foam for VERTEX and STRATO helmets	A010HA00	-	standard	30 g
	A010HA01		absorbent	
NEW 2019 Comfort foam for VERTEX and STRATO helmets	A010KA00	-	standard	15 g
	A010KA01		absorbent	
NEW 2019 Upper foam for STRATO helmet	A020EA00	-	absorbent	15 g
Transparent stickers for VERTEX and STRATO	A10100	-	-	-
NEW 2019 Reflective stickers for VERTEX	A010MA00	-	-	10 g
NEW 2019 Reflective stickers for STRATO	A020FA00	-	-	10 g

		Size	Head circumference	Weight
Hats and balaclava				
LINER	A016AA00	M-L	56-59 cm	15 g
	A016AA01	L-XL	59-63 cm	
BEANIE	A016BA00	M-L	56-59 cm	25 g
	A016BA01	L-XL	59-63 cm	
BALACLAVA	A016CA00	M-L	56-59 cm	60 g
	A016CA01	L-XL	59-63 cm	

Helmets

			European certifications	U.S. certifications	Canadian certification	Russian certification	Australian certification	IMPACT PROTECTION			PENETRATION PROTECTION		
								EN 397	EN 12492	ANSI Z89.1	EN 397	ANSI Z89.1	
Comfortable helmets													
NEW 2019 VERTEX	A010AA00	☐	CE, EN 397, EN 50365	ANSI Z89.1 Type I Class E	CSA Z94.1 Type I Class E	EAC	AS/NZ 1801	●	●	●	●	●	
	A010AA01												
	A010AA02												
	A010AA03												
	A010AA04												
	A010AA05												
	A010AA06												
NEW 2019 VERTEX HI-VIZ	A010DA00		CE, EN 397, EN 50365	ANSI Z89.1 Type I Class E	-	EAC	AS/NZ 1801	●	●	●	●	●	
	A010DA01												
NEW 2019 VERTEX VENT	A010CA00	☐	CE, EN 12492, EN 397	ANSI Z89.1 Type I Class C	-	EAC	-	●	●	●	●	●	
	A010CA01												
	A010CA02												
	A010CA03												
	A010CA04												
	A010CA05												
	A010CA06												
NEW 2019 VERTEX VENT HI-VIZ	A010EA00		CE, EN 12492, EN 397	ANSI Z89.1 Type I Class C	-	EAC	-	●	●	●	●	●	
	A010EA01												
Lightweight helmets													
NEW 2019 STRATO	A020AA00	☐	CE, EN 397 (1)	ANSI Z89.1 Type I Class E	-	EAC	-	●	●	●	●	●	
	A020AA01												
	A020AA02												
	A020AA03												
NEW 2019 STRATO HI-VIZ	A020CA00		CE, EN 397 (1)	ANSI Z89.1 Type I Class E	-	EAC	-	●	●	●	●	●	
	A020CA01												
NEW 2019 STRATO VENT	A020BA00	☐	CE, EN 12492	ANSI Z89.1 Type I Class C	-	EAC	-	●	●	●	●	●	
	A020BA01												
	A020BA02												
	A020BA03												
NEW 2019 STRATO VENT HI-VIZ	A020DA00		CE, EN 12492	ANSI Z89.1 Type I Class C	-	EAC	-	●	●	●	●	●	
	A020DA01												

	CHINSTRAP STRENGTH			VENTILATION	ELECTRICAL PROTECTION			MOLTEN METAL PROTECTION	FLAME RESISTANCE		LATERAL DEFORMATION	LOW TEMPERATURE		HIGH VISIBILITY	Head circumference	Weight
	EN 397 (2)	EN 12492 (3)	ANSI Z89.1	EN 12492	EN 397	EN 50365	ANSI Z89.1	EN 397	EN 397	ANSI Z89.1	EN 397	EN 397	ANSI Z89.1	ANSI Z89.1		
	●	●	●	-	●	●	●	●	●	●	●	●	●	-	53-63 cm	490 g
	●	●	●	-	●	●	●	●	●	●	●	●	●	●	53-63 cm	495 g
	●	●	●	●	-	-	-	●	●	●	●	●	●	-	53-63 cm	485 g
	●	●	●	●	-	-	-	●	●	●	●	●	●	●	53-63 cm	490 g
	●	●	●	-	●	●	●	●	●	●	●	●	●	-	53-63 cm	435 g
	●	●	●	-	●	●	●	●	●	●	●	●	●	●	53-63 cm	445 g
	-	●	●	●	-	-	-	-	-	-	●	●	●	-	53-63 cm	415 g
	-	●	●	●	-	-	-	-	-	-	●	●	●	●	53-63 cm	425 g

(1) meets all requirements of the EN 397 standard, except the requirement for internal vertical clearance. (2) lower strength (< 25 daN) limits risk of strangulation, by releasing if snagged when user is at ground level. (3) higher strength (> 50 daN) limits risk of helmet coming off in a fall.

Pylone inspection and maintenance © Petzl - vuedici.org - Profil - TDF

Depending on the model, the ends of Petzl lanyards are equipped with plastic sheaths, or with STRINGs. These items help keep the connector positioned on the major axis, and facilitate clipping. They also protect the ends from abrasion due to repeated rubbing.

Plastic sheath

STRING

General purpose lanyards

Work positioning lanyards

Adjustable lanyards used to make work positioning systems, to complement a fall-arrest system. Their length can be very easily and precisely adjusted as necessary for comfortable positioning at a specific work station.

GRILLON

GRILLON PLUS

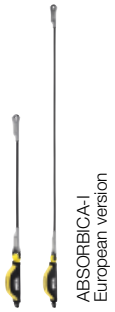
GRILLON HOOK
European version

GRILLON HOOK
international version

GRILLON MGO

Fall arrest lanyards

Lanyards with an energy absorber, used when there is a fall hazard. Petzl offers three types of lanyards with an absorber:
- single (ABSORBICA-I) or double (ABSORBICA-Y) lanyards with a compact, integrated energy absorber. In case of a fall, the absorber's progressive tearing reduces the deceleration on lightweight users
- lanyards that can be combined with an ABSORBICA energy absorber to create a single or double energy-absorbing lanyard with a maximum length of two meters


ABSORBICA-I
European version

ABSORBICA-I
international version

ABSORBICA-I VARIO

ABSORBICA-Y
European version

ABSORBICA-Y
international version

ABSORBICA-Y TIE-BACK

JANE

ABSORBICA

Specialized lanyards

Rope access lanyards

Fixed-length or adjustable progression lanyards, available in single or double versions.

PROGRESS ADJUST

PROGRESS ADJUST I

PROGRESS

Tree care lanyards

Adjustable positioning lanyards that allow comfortable positioning for tree care work.

ZILLON

MICROFLIP

MICROGRAB

Helivac lanyards

Lanyards for helicopter drop-off and recovery.

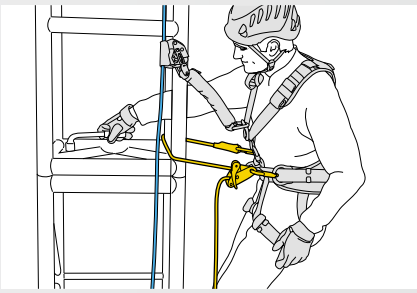
LEZARD

IGUANE

Work positioning lanyards

Positioning lanyards allow the user to position him/herself precisely at a work station, with feet supported on the structure. They can adapt to different anchoring configurations.

• Versatile



Double mode use
The GRILLON lanyard can be used in double mode (on the harness side attachment points) when the user works with weight on his/her feet. This type of attachment ensures better load distribution on the belt. The user precisely adjusts his/her position by pressing on the lanyard's pivoting cam.

Single mode use
When the anchor is located above the user, the GRILLON lanyard is connected to the harness ventral attachment point, so that the load is comfortably distributed between the belt and leg loops. The user adjusts his/her position by operating the handle, while holding the free end of the lanyard.

• Easy handling

Sewn terminations with plastic sheaths
Sewn terminations increase strength (compared to a knotted termination) while reducing bulk. These plastic sheaths protect the stitching from friction and facilitate handling by holding the connector in position.

• Differentiation of lanyard lengths

Lanyard length is immediately identified by a color-coded label at the connector end.

• Replacement ropes available

GRILLON lanyard ropes are also available individually.

• Without connector

GRILLON lanyards are sold without connectors, so that they can be combined with any type of connector, depending on the user's requirements.

• With HOOK connector

GRILLON HOOK lanyards are equipped with a HOOK auto-locking connector, ideal for connections using the harness side attachment points.

• With MGO connector

GRILLON lanyards, in combination with an MGO auto-locking connector, are ideal for connection to metal structures or to large-diameter cables and bars.

GRILLON

Adjustable lanyard for work positioning

The GRILLON adjustable lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. Depending on the configuration, it can be used in single or double mode. GRILLON is available in seven lengths (2, 3, 4, 5, 10, 15 and 20 m), and also in black. It is certified to North American, European and Russian standards.

GRILLON PLUS

Adjustable work positioning lanyard with high abrasion resistance

The GRILLON PLUS lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. The aramid fiber rope provides excellent abrasion resistance. Depending on the configuration, it can be used in single or double mode. GRILLON PLUS is available in two lengths: 2 and 3 m, and is certified to North American, European and Russian standards.

GRILLON HOOK European version

Adjustable work positioning lanyard with HOOK connector

The GRILLON HOOK adjustable lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. Its HOOK connector is ideal for using the lanyard in double mode on the harness side attachment points. GRILLON HOOK European version is available in four lengths (2, 3, 4 and 5 m) and is certified to European and Russian standards.

GRILLON HOOK international version

Adjustable work positioning lanyard with HOOK connector

The GRILLON HOOK adjustable lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. Its HOOK connector is ideal for using the lanyard in double mode on the harness side attachment points. GRILLON HOOK international version is available in four lengths (2, 3, 4 and 5 m) and is certified to North American and European standards.

GRILLON

Adjustable lanyard for work positioning

MGO OPEN 60

Auto-locking directional connector with large gate opening, and a gated connection point

See page 101 for details on the MGO OPEN 60 connector.

GRILLON MGO

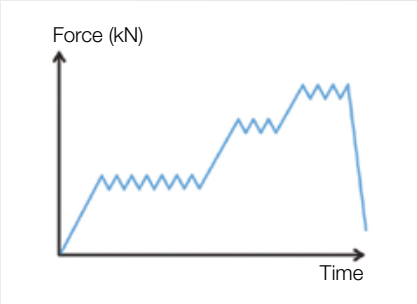
Adjustable work positioning lanyard with MGO connector

The GRILLON MGO lanyard is used to make work positioning systems, to complement a fall-arrest system. Its length can be very easily and precisely adjusted as necessary for comfortable positioning at the work station. Connector with large gate opening is ideal for connection to metal structures or to large-diameter cables and bars. GRILLON MGO is available in two lengths: 2 and 3 m, and is certified to North American and European standards.

Fall arrest lanyards

These lanyards are used when there is a fall hazard and are connected to the sternal or dorsal attachment point on the harness. The integrated absorber provides energy absorption in a fall and thus limits the impact force on the user.

• Progressive energy absorption adapted to the user's weight



In case of a fall, the tearing of the energy absorber webbing limits the impact force on the user. The lanyards are designed for users who weigh between 50 and 130 kg. The progressive tearing of the webbing reduces the deceleration on lightweight users.

• Compact and abrasion resistant energy absorber

The energy absorber is very compact to avoid hindering the user's movements, or interfering with handling. A durable fabric pouch helps protect the energy absorber from abrasion and potential contaminants.

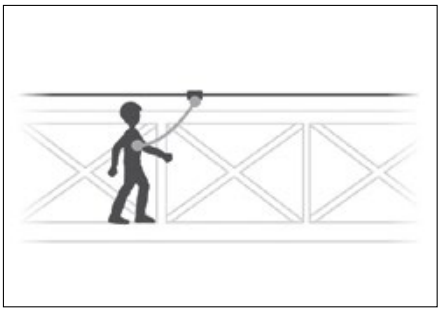
• Different connectors depending on the type of structure

MGO OPEN large-opening connectors
Lanyards without connectors can be equipped with MGO OPEN auto-locking connectors for connection to metal structures or to large-diameter cables and bars. These connectors can be re-used if the lanyard is damaged.

MGO large-opening connectors
Lanyards equipped with MGO connectors allow for connection to metal structures or to large-diameter cables and bars.

Classic connectors
The ABSORBICA-I and ABSORBICA-Y lanyards can also be equipped with classic aluminum OK and Am'D connectors, or captive steel versions. They enable connection to lifelines or to single anchor points.

• For continuous protection without passage of intermediate anchors



ABSORBICA-I single lanyards are designed particularly for protection on a horizontal lifeline or on an elevated platform.

• For continuous protection when passing intermediate anchors

The ABSORBICA-Y lanyards with two arms allow for continuous protection when passing an intermediate anchor, by successively detaching and re-attaching the two arms.

ABSORBICA-I European version

Single lanyard with integrated energy absorber

Single lanyard with a compact, integrated energy absorber designed for protection on a horizontal lifeline (rope or cable) or on an elevated platform. It is available in 80 or 150 cm versions (without connectors). It can accept different types of connectors on the lanyard end and is certified to European and Russian standards.

ABSORBICA-I International version

Single lanyard with integrated energy absorber and captive carabiners

Single lanyard with a compact, integrated energy absorber designed for protection on a horizontal lifeline (rope or cable) or on an elevated platform. It is available in 80 or 150 cm versions (without connectors). Equipped with two captive carabiners, it is certified to North American and European standards.

ABSORBICA-I VARIO

Adjustable single lanyard with integrated energy absorber

Adjustable single lanyard with a compact, integrated energy absorber designed for protection on a horizontal lifeline (rope or cable) or on an elevated platform. This lanyard features the VARIO adjustment system, allowing the lanyard length to be adjusted in order to reduce the potential fall height. ABSORBICA-I VARIO is certified to European and Russian standards.

ABSORBICA-Y European version

Double lanyard with integrated energy absorber

Double lanyard with a compact, integrated energy absorber, for continuous protection when passing intermediate anchors. It is available in 80 or 150 cm versions (without connectors). The 150 cm version has elasticized arms, to avoid hindering progression. Available with or without MGO large-opening connectors, it is certified to European and Russian standards.

ABSORBICA-Y International version

Double lanyard with integrated energy absorber, captive carabiner and MGO connectors

Double lanyard with a compact, integrated energy absorber, for continuous protection when passing intermediate anchors. It is available in 80 or 150 cm versions (without connectors). The 150 cm version has elasticized arms, to avoid hindering progression. Equipped with a captive carabiner and two MGO large-opening connectors, it is certified to North American and European standards.

ABSORBICA-Y TIE-BACK

Double lanyard with integrated intermediate tie-back rings and energy absorber, captive carabiner and MGO connectors

Double lanyard with integrated intermediate tie-back rings and compact energy absorber. Designed for continuous protection on very large structures and when passing intermediate anchor points. The TIE-BACK system allows the lanyard ends to be reconnected to fit around structures with a very large cross-section. The arms are elasticized to avoid hindering progression. Equipped with a captive carabiner and two MGO large-opening connectors, it meets North American, European and Russian standards.

Fall arrest lanyards - assembly required

MGO OPEN 60
Auto-locking directional connector with large gate opening, and a gated connection point
See page 101 for details on the MGO OPEN 60 connector.

JANE
Non-adjustable dynamic rope lanyard
Non-adjustable dynamic rope lanyard combines with an ABSORBICA energy absorber to create an I or Y energy-absorbing lanyard that helps hold the connector in position, with abrasion protection for the ends.

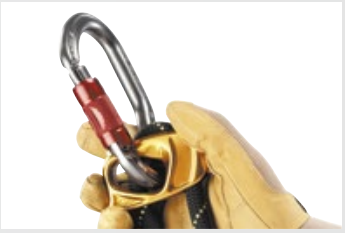
RING OPEN
Multidirectional gated ring
See page 102 for details on the RING OPEN gated ring.

ABSORBICA
Compact energy absorber
ABSORBICA is a compact energy absorber, for use in combination with a JANE lanyard to make a fall arrest lanyard. Equipped with tear-webbing inside a zippered fabric pouch, the energy absorber is protected from abrasion while allowing for regular inspection. It has two options for installation on the harness, according to the frequency of manipulation.

Rope access lanyards

PROGRESS ADJUST
Double adjustable progression lanyard
PROGRESS ADJUST is a double adjustable progression lanyard that enables continuous connection for all types of progression (rope ascent, movement along a lifeline...). Thanks to the ADJUST rope adjuster, the length of the adjustable arm can be quickly and easily adjusted. The connectors are held in the correct position for ease of clipping.

PROGRESS ADJUST-I
Single adjustable progression lanyard
PROGRESS ADJUST-I is a single adjustable progression lanyard that allows, when combined with another lanyard, continuous connection for all types of progression (rope ascent, movement along a lifeline...). Thanks to the ADJUST rope adjuster, the length can be quickly and easily adjusted. The connector is held in the correct position for easy clipping.



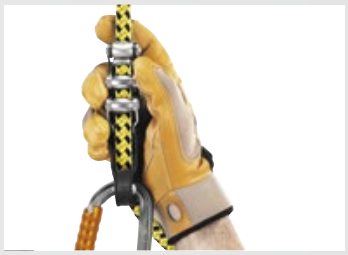
The PROGRESS ADJUST lanyards adjust very quickly and precisely thanks to the ADJUST rope adjuster, which releases with a simple turn and handles easily due to its ergonomic shape.

PROGRESS
Progression lanyard
The PROGRESS progression lanyard allows continuous connection during rope ascents. The connectors are held in the correct position for ease of clipping.

ZILLON

Adjustable work positioning lanyard for tree care

The ZILLON work positioning lanyard for tree care adjusts easily with only one hand, even when loaded. It is designed for use in double mode on the harness side attachment points, or in single mode on the ventral attachment point with the hand on the free end. Yellow color for excellent visibility. ZILLON lanyard ropes are also available individually.



Easily adjusted with one hand, thanks to the progressive locking/ unlocking action of the device.

Pulley mounted on sealed ball bearings allows slack to be taken up easily.

MICROFLIP

Reinforced adjustable positioning lanyard for tree care work

MICROFLIP is a reinforced adjustable lanyard designed for positioning in tree care work.
Its cable core reduces the risk of severing the lanyard and facilitates moving about on the trunk.
Yellow color for excellent visibility. MICROFLIP lanyard ropes are also available individually.

MICROGRAB

Replacement cam-loaded rope clamp for MICROFLIP

Replacement rope clamp for MICROFLIP, featuring an ergonomic cam and integrated cam spring.

Helivac lanyards

LEZARD

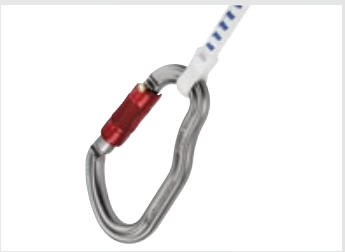
Helivac lanyard with securing of the drop-off/recovery phases

The LEZARD lanyard is designed for helivac at altitude. It allows the drop-off/recovery phases to be secured thanks to an adjustable arm that can be instantly ejected to free the victim, the rescuer and the helicopter if the latter needs to suddenly leave its stationary position. Manipulating the LEZARD helivac lanyard is easy thanks to the instant identification of the color-coded attachment elements and the very quick and precise adjustment of the adjustable arm with the ADJUST rope adjuster.

IGUANE

Helivac lanyard for ground drop-off/recovery

The IGUANE lanyard is designed for ground helivac. Manipulation is easy thanks to the instant identification of the attachment elements by color coding. Lanyard available in two lengths.



The lower ends are equipped with STRING, allowing the carabiner to be held in position and protecting the webbing from wear.

Lanyard-end connectors

VERTIGO TWIST-LOCK

Carabiner for progression lanyard

See page 101 for details on the VERTIGO TWIST-LOCK carabiner.

EASHOOK OPEN

Carabiner with gated connection point for double lanyard and work positioning lanyard

See page 101 for details on the EASHOOK OPEN carabiner.

MGO OPEN 60

Auto-locking directional connector with large gate opening, and a gated connection point

See page 101 for details on the MGO OPEN 60 connector.

MGO 110

Auto-locking directional connector with very large gate opening

See page 101 for details on the MGO 110 connector.

		Lengths	Certifications	Weight
Work positioning lanyards and lanyards for rope access or tree care				
GRILLON	L052AA00 / 01 / 02 / 03 / 04 / 05 / 06	Adjustable to 2 m / 3 m / 4 m / 5 m / 10 m / 15 m / 20 m	ANSI Z359.3, CSA Z259.11 (1) CE EN 358, EN 12841 type C, EAC	480 - 1875 g
	L052AA07 / 08 (black)	Adjustable to 2 m / 3 m		480 - 1875 g
GRILLON PLUS	L052EA00 / 01	Adjustable to 2 m / 3 m		435 - 515 g
GRILLON HOOK European version	L052BA00 / 01 / 02 / 03	Adjustable to 2 m / 3 m / 4 m / 5 m	CE EN 358, EN 12841 type C, EAC	635 - 875 g
GRILLON HOOK international version	L052CA00 / 01 / 02 / 03		ANSI Z359.3, CSA Z259.11 (1) CE EN 358, EN 12841 type C, EAC	770 - 1010 g
GRILLON MGO	L052DA00 / 01	Adjustable to 2 m / 3 m	ANSI Z359.3, CSA Z259.11 (1) CE EN 358, EN 12841 type C, EAC	1220 - 1300 g
PROGRESS ADJUST	L44R	1 x 65 cm fixed arm, 1 arm adjustable to 95 cm	CE EN 358, EAC	245 g
PROGRESS ADJUST-I	L44IR	1 arm adjustable up to 95 cm	CE EN 358, EAC	175 g
PROGRESS	L44A	1 x 30 cm short arm, 1 x 65 cm long arm	CE EN 354, EAC	150 g
ZILLON	L22A 025 / 040 / 055	Adjustable to 2.5 m / 4 m / 5.5 m	CE EN 358	570 - 900 g
MICROFLIP	L33 025 / 040 / 055	Adjustable to 2.5 m / 4 m / 5.5 m	CE EN 358, EAC	750 - 1355 g
MICROGRAB	B53A	-	CE EN 358 (2), EN 567, EAC, NFPA 1983 Technical Use	150 g

		Connectors	Maximum authorized length (with connectors)	Maximum length of torn lanyard after fall	Maximum clearance (3)	Certifications	Weight
Fall arrest lanyards							
ABSORBICA-I European version	L64IA 80	-	130 cm	210 cm	440 cm	CE EN 355 EN 354 EAC	270 g
	L64IA 150	-	200 cm	320 cm	620 cm		330 g
ABSORBICA-I international version	L64IU 80	- End: captive TRIACT-LOCK - Harness: captive TRIACT-LOCK	100 cm	195 cm	395 cm	ANSI Z359.13 12 feet ANSI Z359.12 CE EN 355, EN 354 EN 362	870 g
	L64IU 150		170 cm	305 cm	575 cm		930 g
ABSORBICA-I VARIO	L64IAR 150	-	200 cm	320 cm	620 cm	CE EN 355, EN 354, EAC	280 g
ABSORBICA-Y European version	L64YA 80	-	130 cm	210 cm	440 cm	CE EN 355, EN 354, EAC	370 g
	L64YAM 80	- Ends: 2 x MGO 60	115 cm	190 cm	400 cm	CE EN 355, EN 354 EN 362, EAC	1290 g
	L64YA 150	-	200 cm	320 cm	620 cm	CE EN 355, EN 354, EAC	430 g
	L64YAM 150	- Ends: 2 x MGO 60	185 cm	300 cm	585 cm	CE EN 355, EN 354 EN 362, EAC	1430 g
ABSORBICA-Y international version	L64YUM 80	- Ends: 2 x MGO 60 - Harness: captive TRIACT-LOCK	115 cm	220 cm	435 cm	ANSI Z359.13 12 feet ANSI Z359.12 CE EN 355, EN 354 EN 362	2070 g
	L64YUM 150		180 cm	320 cm	600 cm		2210 g
ABSORBICA-Y TIE-BACK	L64YUT 150	- Ends: 2 x MGO 60 - Harness: captive TRIACT-LOCK	180 cm	320 cm	600 cm	ANSI Z359.13 12 feet ANSI Z359.12 CE EN 355, EN 354 EN 362, EAC	2330 g
ABSORBICA	L064AA00	-	200 cm	320 cm	620 cm	CE EN 355, EAC	140 g
JANE	L50 60	-	60 cm	-	-	CE EN 354, EAC	110 g
	L50 100	-	100 cm	-	-		130 g
	L50 150	-	150 m	-	-		185 g

		Connectors	Lengths	Certifications	Weight
Helivac lanyards					
LEZARD	L01	- 3 x VERTIGO TWIST-LOCK - 1 x VERTIGO WIRE-LOCK	2x35 cm fixed arms, 1 ejectable arm, adjustable to 95 cm	CE	880 g
IGUANE	L001AA00	- 2 x VERTIGO TWIST-LOCK - 1 x Am'D TWIST-LOCK	2 x 25 cm fixed arms	CE EN 354	390 g
	L001AA01		2 x 35 cm fixed arms		395 g

(1) for the 2 m version only, (2) with MICROFLIP, (3) maximum clearance, for factor 2 fall, see Instructions for use at Petzl.com for more details.

Paint job for the cranes of the merchant harbor of Valencia, Spain. © Petzl - Jan Novak photography - Vertice Vertical™

Mobile fall arresters

Installed on a safety rope, mobile fall arresters will lock in the case of shock or sudden acceleration.

• For protection against falls

Mobile fall arresters.

ASAP
European version

ASAP
international version

• For rope access

Mobile fall arrester with locking function.

ASAP LOCK

Absorbers for mobile fall arresters

Energy absorbers are connected to mobile fall arresters to limit the impact force on the user in case of a fall.

ASAP'SORBER
European version

ASAP'SORBER
international version

ASAP'SORBER AXESS

Ropes for mobile fall arresters

Ropes with sewn termination, allowing the ASAP / ASAP LOCK to meet the requirements of the EN 353-2 or ANSI Z359.15 standard.

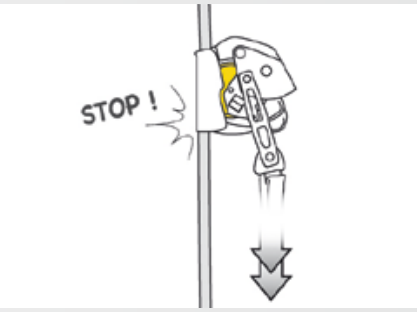
AXIS 11 mm
with sewn termination

RAY 12 mm
with sewn termination

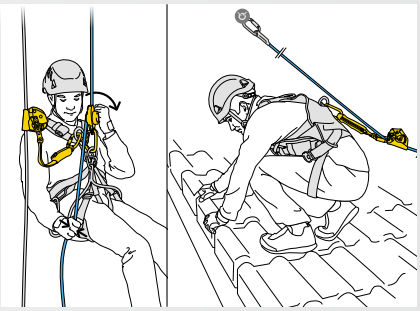
Mobile fall arresters

Installed on a safety rope, the ASAP and ASAP LOCK mobile fall arresters connect to the harness sternal or dorsal attachment point. They follow the user in his or her movements, and, in case of a shock load or sudden acceleration, they lock and stop the fall.

• Constant fall protection

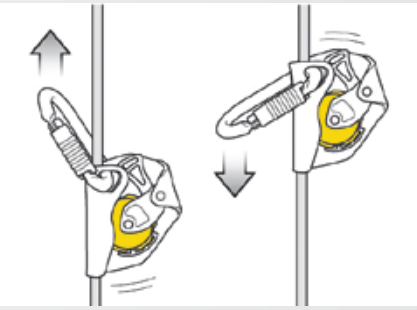


Integrated locking
In case of a sudden movement due to a fall, slide or uncontrolled descent, the ASAP and ASAP LOCK mobile fall arresters lock on the rope and stop the worker's fall, even if s/he grabs the device with his/her hands.



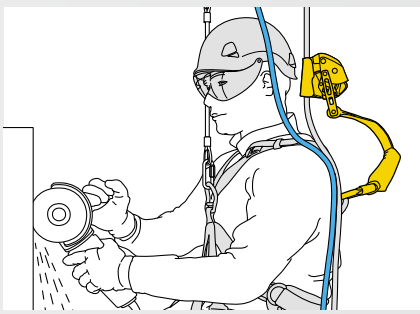
Effective in any situation
These mobile fall arresters work equally well on vertical or angled ropes, to adapt to any worksite situation.

• Simple to use



No user action required
The ASAP and ASAP LOCK mobile fall arresters follow the worker in all his/her movements, without the need for any manual operation. S/he can therefore focus completely on his/her task.

Rapid installation
These mobile fall arresters may be quickly and easily installed anywhere on the rope by simply retracting the locking wheel.



Keeping the safety rope at a distance
The ASAP'SORBER energy-absorber allows the user to keep the rope at a distance, freeing the work space and protecting the rope (from sharp tools, molten metal splash...).

• For protection against falls

The ASAP mobile fall arrester can be combined (or not) with an ASAP'SORBER energy-absorber.

• For rope access

The ASAP LOCK has a locking function to reduce the potential fall distance. Additionally, it is drop-resistant when passing intermediate anchors. It is used with an ASAP'SORBER energy-absorber.

ASAP® European version

Mobile fall arrester with OK carabiner

With its unique locking system, the ASAP sets the standard in fall protection for workers at height. In normal use, the device moves freely along the rope without any manual intervention and follows the user in all his/her movements. In case of shock or sudden acceleration, the ASAP locks on the rope and stops the user. The ASAP may also be combined with an energy absorber to work at a distance from the rope. Equipped with an OK TRIACT-LOCK carabiner, it is certified to European and Russian standards.

ASAP® international version

Mobile fall arrester with OXAN carabiner

With its unique locking system, the ASAP sets the standard in fall protection for workers at height. In normal use, the device moves freely along the rope without any manual intervention and follows the user in all his/her movements. In case of shock or sudden acceleration, the ASAP locks on the rope and stops the user. The ASAP may also be combined with an energy absorber to work at a distance from the rope. Equipped with an OXAN TRIACT-LOCK carabiner, it is certified to North American and European standards.

ASAP® LOCK

Mobile fall arrester with locking function

The ASAP LOCK mobile fall arrester is designed to facilitate handling during rope ascents. In normal use, the device moves freely along the rope without any manual intervention and follows the user in all his/her movements. In case of shock or sudden movement, the fall arrester locks on the rope and stops the user. The integrated locking function allows the user to immobilize the device in order to reduce the potential fall distance. The connection arm makes the system drop-resistant when passing intermediate anchors. The ASAP LOCK is used with an energy absorber to work at a distance from the rope. It is certified to North American, European, and Russian standards.

Absorbers for mobile fall arresters

ASAP'SORBER European version

Energy absorber for ASAP European version or ASAP LOCK

The ASAP'SORBER energy absorber connects to the ASAP (European version) or ASAP LOCK mobile fall arrester to allow the user to work at a distance from the rope, in order to protect it during certain work phases. Equipped with tear-webbing inside an openable pouch, the absorber is protected from abrasion while allowing for regular inspection. It is available in two lengths, to provide the best balance between distance from the rope and reduced fall length. It is certified to European and Russian standards.

ASAP'SORBER international version

Energy absorber for ASAP international version or ASAP LOCK

The ASAP'SORBER energy absorber connects to the ASAP (international version) or ASAP LOCK mobile fall arrester to allow the user to work at a distance from the rope, in order to protect it during certain work phases. Equipped with tear-webbing inside a pouch that opens on each end, the absorber is protected from abrasion, while allowing for regular inspection. It is available in two lengths, to provide the best balance between distance from the rope and reduced fall length. It is certified to North American and European standards.

ASAP'SORBER AXESS

Energy absorber for ASAP or ASAP LOCK

The ASAP'SORBER AXESS energy absorber connects to the ASAP or ASAP LOCK mobile fall arrester to allow the user to work at a distance from the rope, in order to protect it during certain work phases. Equipped with tear-webbing inside a pouch that opens on each end, the absorber is protected from abrasion, while allowing for regular inspection. It can be used in two-person rescue situations for a maximum load of 250 kg. It is certified to North American, European, and Russian standards.

Ropes for mobile fall arresters

AXIS 11 mm with sewn termination

Low stretch kernmantel rope with sewn termination and good handling, for work at height

See page 133 for details on the AXIS 11 mm rope with sewn termination.

RAY 12 mm with sewn termination

Static rope with sewn termination for ASAP (international version) or ASAP LOCK

The RAY 12 mm static rope with sewn termination is designed for use with an ASAP (international version) or ASAP LOCK mobile fall arrester. The standard diameter ensures a good grip for easier handling. It has low stretch when put under tension, allowing it to meet the requirements of North American fall protection standards. The sewn termination with protective sheath helps keep the connector in position and facilitates handling. Rope available in five lengths.

		Certifications	Weight
Mobile fall arresters			
ASAP European version	B71AAA	**CE EN 12841 type A** when used with an ASAP'SORBER (European version) or ASAP'SORBER AXESS energy absorber, and an EN 1891 type A 10 to 13 mm rope. **CE EN 353-2** when used with an ASAP'SORBER (European version) energy absorber and an AXIS 11 mm or PARALLEL 10.5 mm rope with a sewn termination. **EAC** when used with an ASAP'SORBER (European version) or ASAP'SORBER AXESS energy absorber, and an EN 1891 type A 10 to 13 mm rope.	370 g
ASAP international version	B071AA00	**ANSI Z359.15** when used with OXAN TRIACT-LOCK (international version) carabiners, an ASAP'SORBER (international version) or ASAP'SORBER AXESS energy absorber, CAPTIV positioning bars, and a RAY 12 mm rope with a sewn termination. **CE EN 12841 type A** when used with OXAN TRIACT-LOCK (international version) carabiners, an ASAP'SORBER (international version) or ASAP'SORBER AXESS energy absorber, CAPTIV positioning bars, and an EN 1891 type A 10 to 13 mm rope.	525 g
ASAP LOCK	B071BA00	**ANSI Z359.15** when used with an ASAP'SORBER (international version) or ASAP'SORBER AXESS energy absorber, an OXAN TRIACT-LOCK (international version) carabiner, CAPTIV positioning bars, and a RAY 12 mm rope with a sewn termination. **CE EN 12841 type A** when used with an ASAP'SORBER (European or international version) or ASAP'SORBER AXESS energy absorber, and an EN 1891 type A 10 to 13 mm rope. **CE EN 353-2** when used with an ASAP'SORBER (European or international version) energy absorber and an AXIS 11 mm or PARALLEL 10.5 mm rope with a sewn termination. **EAC** when used with an ASAP'SORBER (European version) or ASAP'SORBER AXESS energy absorber, and an EN 1891 type A 10 to 13 mm rope.	425 g

		Length	Certifications	Weight
Absorbers for mobile fall arresters				
ASAP'SORBER European version	L71AA 20	20 cm	**CE EN 12841 type A and CE EN 353-2** when used with an ASAP (European version) or ASAP LOCK mobile fall arrester. **CE EN 355** **EAC**	75 g
	L71AA 40	40 cm		105 g
ASAP'SORBER international version	L071BA00	20 cm	**ANSI Z359.13 6 feet** when used with OXAN TRIACT-LOCK (international version) carabiners and CAPTIV positioning bars. **CE EN 12841 type A** when used with an ASAP (international version) or ASAP LOCK mobile fall arrester. **CE EN 353-2** when used with an ASAP LOCK mobile fall arrester.	125 g
	L071BA01	40 cm		145 g
ASAP'SORBER AXESS	L071CA00	40 cm	**ANSI Z359.13 6 feet** when used with OXAN TRIACT-LOCK (international version) carabiners and CAPTIV positioning bars. **CE EN 12841 type A** when used with an ASAP (European or international version) or ASAP LOCK mobile fall arrester. **CE EN 353-2** when used with an ASAP LOCK mobile fall arrester.	205 g

		Length	Certifications	Weight per meter
Rope for mobile fall arresters				
RAY **12 mm** with sewn termination	R091AA00	25 ft	**ANSI Z359.15** when used with an ASAP (international version) or ASAP LOCK mobile fall arrester.	106 g
	R091AA01	50 ft		
	R091AA02	75 ft		
	R091AA03	100 ft		
	R091AA04	200 ft		

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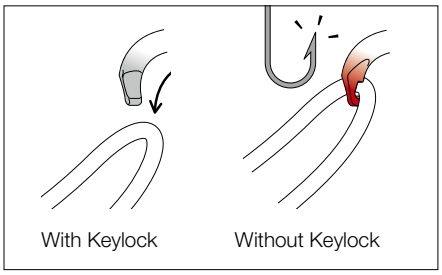
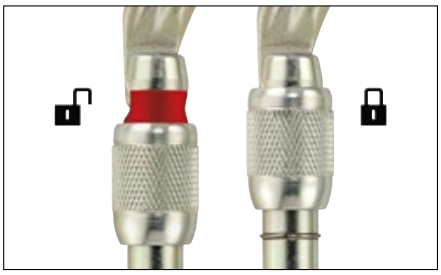
To simplify connection and disconnection, Petzl connectors have features that simplify their use.



Avoids the risk of snagging
To ensure optimal efficiency, all Petzl carabiners use the Keylock system: the body/gate interface does not have a hook that could snag on anchors, ropes, harness equipment loops...



Visual locking indicator
To facilitate equipment checks, SCREW-LOCK manual locking carabiners have a red band that is visible only when the carabiner is not locked.

Lightweight carabiners

Aluminum carabiners designed for workers at height.

Ultra-lightweight carabiners

Compact aluminum carabiners for workers at height looking to reduce weight to a minimum.

High-strength carabiners

Steel carabiners suitable for difficult environments, primarily used for setting up anchors and for connecting to metal structures.

Lanyard-end connectors

Connectors designed for lanyard ends.

Special carabiners

Aluminum carabiners designed for specific uses: with groups, at the end of a lanyard, for additional braking with a descender, and for harness fastening.

Semi-permanent connectors

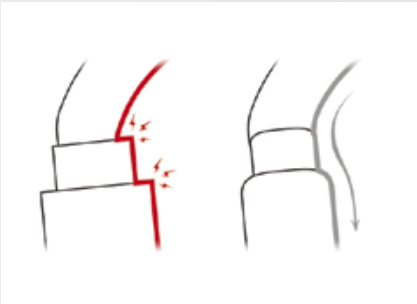
Connectors designed for semi-permanent connection of equipment.

Connector positioning accessories

Accessories that keep the carabiner correctly positioned in devices and at the end of a lanyard.

Lightweight carabiners

• Design facilitates handling

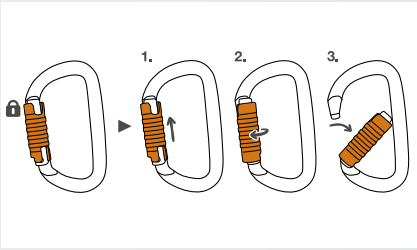


Fluid interior design
Fluid interior design limits the risk of having a catch point and facilitates rotation of the carabiner.

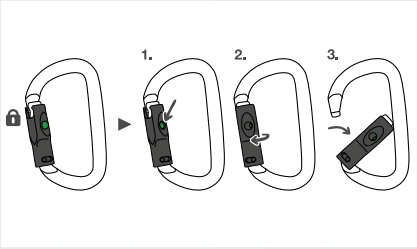
Optimal strength/weight ratio
The H cross-section ensures an optimal strength/weight ratio and protects the markings from abrasion.

• Multiple locking systems depending on the intensity of use:

- for frequent handling:

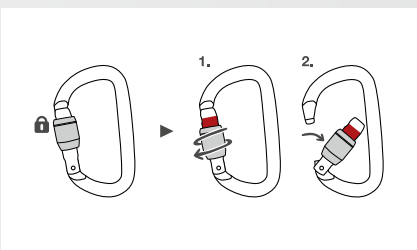


TRIACT-LOCK automatic system:
Unlocking is accomplished by raising, then turning the sleeve.



BALL-LOCK automatic system:
Unlocking is accomplished by pressing on the green indicator, then turning the sleeve. The green visual indicator is visible only when the gate is locked.

- for occasional handling:



SCREW-LOCK manual system:
This system is suitable for harsh environments where contaminants (mud, ice) could cause an automatic locking system to jam. The red visual indicator is visible when the carabiner is unlocked.

• For connecting to equipment having a large cross-section

The OK carabiner has a symmetrical oval shape for optimal loading of devices with a large cross-section, such as pulleys, rope clamps or mobile fall arresters.

• For connection to equipment such as descenders or positioning lanyards

The Am'D carabiner has an asymmetric D shape that is ideal for attaching equipment such as descenders or positioning lanyards.

• For connection of multiple items

The WILLIAM has an asymmetric pear shape, with a large capacity for attaching multiple elements, and a large gate opening to facilitate their installation.

CAPTIV
COMPATIBLE

OK

Lightweight oval carabiner

The lightweight OK carabiner is made of aluminum. It has an oval shape that allows optimal loading of devices with a large cross-section, such as pulleys, rope clamps, and mobile fall arresters. The fluid interior design and Keylock system facilitate handling. It is available in three locking systems: automatic TRIACT-LOCK or BALL-LOCK, or the manual SCREW-LOCK.
OK can be connected to the CAPTIV bar to favor positioning of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

CAPTIV
COMPATIBLE

Am'D

Lightweight asymmetrical carabiner

The Am'D lightweight asymmetrical carabiner is made of aluminum. It has a D shape particularly suited for connection to diverse equipment such as descenders or positioning lanyards. The fluid interior design and Keylock system facilitate handling. The Am'D carabiner is available in three locking systems: automatic TRIACT-LOCK or BALL-LOCK system, or the manual SCREW-LOCK system. Am'D may be used with a CAPTIV positioning bar to favor loading of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

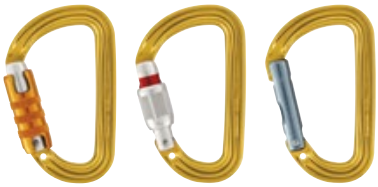
CAPTIV
COMPATIBLE

WILLIAM

Lightweight asymmetrical large-capacity carabiner

The lightweight WILLIAM large-capacity asymmetrical carabiner is made of aluminum. It has a pear shape that is practical for easily connecting multiple items. The fluid interior design and Keylock system facilitate handling. The WILLIAM carabiner is available in three locking systems: automatic TRIACT-LOCK or BALL-LOCK, or the manual SCREW-LOCK. WILLIAM can be used with the CAPTIV bar to favor positioning of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

Ultra-lightweight carabiners



Sm'D

Ultra-lightweight asymmetrical carabiner

The compact Sm'D asymmetrical aluminum carabiner is recommended for workers at height looking to reduce weight to a minimum. D shape makes it especially suitable for attaching devices. It is available in two locking systems (automatic TRIACT-LOCK system or manual SCREW-LOCK system), or without a locking system.

High-strength carabiners

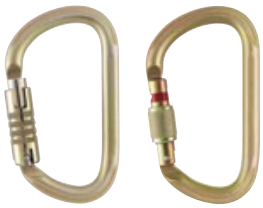
CAPTIV COMPATIBLE

OXAN

High-strength oval carabiner

OXAN is a high-strength steel carabiner designed for use in difficult environments. The oval, symmetrical shape allows optimal loading of the carabiner when setting up anchors or connecting to metal structures. It is available in two locking systems: automatic TRIACT-LOCK system or manual SCREW-LOCK system. OXAN TRIACT-LOCK is available in European or international versions. OXAN can be combined with the CAPTIV bar to favor positioning of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

The oval, symmetrical shape allows optimal loading of the carabiner when setting up anchors.
Usage with the CAPTIV positioning bar favors loading of the carabiner along the major axis, limits flipping and keeps it attached to the device or lanyard.



VULCAN

High-strength asymmetrical carabiner with large capacity

VULCAN is a high-strength steel carabiner designed for use in harsh environments.
The large-capacity asymmetrical shape is ideal for setting multiple anchors. The VULCAN carabiner is available in two locking systems: automatic TRIACT-LOCK system or manual SCREW-LOCK system. VULCAN TRIACT-LOCK is available in European or international versions.

NEW 2019

CAPTIV COMPATIBLE

Bm'D

Lightweight asymmetrical high-strength carabiner

The Bm'D lightweight asymmetrical carabiner is made of aluminum. It has a D shape particularly suited for connection to diverse equipment such as descenders or positioning lanyards. The fluid interior design and Keylock system facilitate handling. The Bm'D carabiner has the TRIACT-LOCK automatic locking system. The sleeve is reinforced for greater front and lateral gate strength. Bm'D may be used with a CAPTIV positioning bar to favor loading of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

The sleeve is reinforced for greater front and lateral gate strength.

Lanyard-end connectors

VERTIGO TWIST-LOCK

Carabiner for progression lanyard

The VERTIGO TWIST-LOCK carabiner is designed for use on progression lanyards.
The excellent grip and automatic locking system facilitate handling when passing intermediate anchors. The wide opening and the Keylock system allow the carabiner to be easily connected.

EASHOOK OPEN

Carabiner with gated connection point for double lanyard and work positioning lanyard

The EASHOOK OPEN carabiner is designed for use at the ends of a double lanyard or work positioning lanyard. The gated connection point allows for direct attachment of the carabiner to the lanyards. If the lanyard is damaged, the connector can thus be reused. The excellent grip and automatic locking system facilitate handling when passing intermediate anchors.

MGO OPEN 60

Auto-locking directional connector with large gate opening, and a gated connection point

MGO OPEN is an auto-locking directional connector with a large gate opening for connection to metal structures or to large-diameter cables and bars. It has a gated connection point for attachment to different types of lanyards. If the lanyard is damaged, the connector can thus be reused.

MGO 110

Auto-locking directional connector with very large gate opening

MGO 110 is an auto-locking directional connector with very large gate opening for connection to metal structures or to very large-diameter cables and bars.

Special carabiners

CAPTIV COMPATIBLE

Am'D PIN-LOCK

Asymmetrical aluminum carabiner, unlocks with a tool

The Am'D PIN-LOCK asymmetrical aluminum carabiner is designed for use with groups.
It secures the connection of the user thanks to its PIN-LOCK system, which can only be opened by the operator with a specific unlocking tool. Am'D PIN-LOCK may be used with a CAPTIV positioning bar to favor loading of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

FREINO

Carabiner with friction spur for descenders

The FREINO is ideal for adding or adjusting friction during the descent.

OMNI

Multidirectional semi-circle carabiner

Multidirectional semi-circle OMNI carabiner for fastening the FALCON ASCENT harness and for attaching a CROLL ventral rope clamp. It is available in two locking systems: automatic TRIACT-LOCK system or manual SCREW-LOCK system.

Semi-permanent connectors

RING OPEN
Multidirectional gated ring
The RING OPEN gated ring is designed for the semi-permanent connection of equipment. Round shape ensures optimal functioning in all directions. It has a large opening that allows installation of ropes with sewn terminations.

DELTA
Triangular steel quick link
When closed with a wrench, this steel quick link becomes a semi-permanent anchor ring.

GO
Oval steel quick link
When closed with a wrench, this steel quick link becomes a semi-permanent anchor ring.

DEMI ROND
Semi-circle aluminum alloy quick link
When closed with a wrench, this aluminum quick link is used to fasten harnesses that have two attachment points that must be joined with a connector.

Connector positioning accessories

CAPTIV
Connector positioning bar (pack of 10)
The CAPTIV positioning bar promotes loading of the carabiner on the major axis, limits the risk of rotation and keeps it integrated with the device or lanyard. CAPTIV is compatible with OK, Am'D, Am'D PIN-LOCK, WILLIAM, OXAN, Bm'D carabiners and the ROLLCLIP A pulley carabiner.

Used with the I'D descender, the CAPTIV connector positioning bar limits the risk of flipping the carabiner and integrates it with the device.

TANGA
Connector positioning ring (pack of 10)
The TANGA positioning ring helps hold the connector in the correct position.

NEW 2019

STRING
Accessory for maintaining connector orientation and protecting carabiner attachment loop (pack of 10)
STRING helps maintain the proper orientation of the connector and protects the carabiner attachment loop from wear. It is available in two sizes.

	Locking	References					Certifications	Weight
Lightweight carabiners								
OK	TRIACT-LOCK	M33A TL / TLN (1)	22 mm	25 kN	8 kN	7 kN	CE EN 362, EAC	75 g
	BALL-LOCK	M33A BL	23 mm					75 g
	SCREW-LOCK	M33A SL / SLN (1)	22 mm					70 g
Am'D	TRIACT-LOCK	M34A TL / TLN (1)	24 mm	27 kN	8 kN	7 kN	CE EN 362, EAC, NFPA 1983 Technical Use	75 g
	BALL-LOCK	M34A BL	25 mm					75 g
	SCREW-LOCK	M34A SL / SLN (1)	25 mm					70 g
WILLIAM	TRIACT-LOCK	M36A TL / TLN (1)	27 mm	27 kN	8 kN	8 kN	CE EN 362, EAC, NFPA 1983 Technical Use	90 g
	BALL-LOCK	M36A BL	27 mm					90 g
	SCREW-LOCK	M36A SL / SLN (1)	28 mm					85 g
Ultra-lightweight carabiners								
Sm'D	TRIACT-LOCK	M39A TL / TLN (1)	18 mm	23 kN	8 kN	7 kN	CE EN 362, CE EN 12275 type B, EAC	55 g
	SCREW-LOCK	M39A SL / SLN (1)	20 mm				CE EN 362, CE EN 12275 type B, EAC	45 g
	Non-locking	M39A S / SN (1)	23 mm				CE EN 12275 type B	40 g
High-strength carabiners								
OXAN	TRIACT-LOCK European version	M72A TL	22 mm	38 kN	16 kN	15 kN	CE EN 362, EAC, NFPA 1983 Technical Use	195 g
	TRIACT-LOCK international version	M72A TLA / TLN (1)	20 mm				CE EN 362, EAC, ANSI Z359.12, NFPA 1983 Technical Use, CSA Z259.12	230 g
	SCREW-LOCK	M72A SL / SLN (1)	22 mm				CE EN 362, EAC, NFPA 1983 Technical Use	185 g
VULCAN	TRIACT-LOCK European version	M73 TL	28 mm	40 kN	16 kN	11 kN	CE EN 362, EAC, NFPA 1983 General Use	285 g
	TRIACT-LOCK international version	M73 TLA / TLN (1)	27 mm				CE EN 362, EAC, ANSI Z359.12, NFPA 1983 General Use, CSA Z259.12	305 g
	SCREW-LOCK	M73 SL / SLN (1)	29 mm				CE EN 362, EAC, NFPA 1983 General Use	265 g
NEW 2019 Bm'D	TRIACT-LOCK	M032AA00 / 01 (1)	18 mm	32 kN	16 kN	10 kN	CE EN 362, EAC, ANSI Z359.12, NFPA 1983 Technical Use, CSA Z259.12	105 g
Lanyard-end connectors								
VERTIGO TWIST-LOCK	TWIST-LOCK	M40A RLA	25 mm	25 kN	10 kN	8 kN	CE EN 362	100 g
EASHOOK OPEN	Automatic	M043AA00 / 01 (1)	25 mm	25 kN	-	10 kN	CE EN 362, EAC	160 g
MGO OPEN 60	Automatic	MGOO 60	63 mm	23 kN	-	23 kN	CE EN 362, EAC	490 g
MGO 110	Automatic	MGO 110	110 mm				CE EN 362	940 g
Special carabiners								
Am'D PIN-LOCK	PIN-LOCK	M34A PL (x 1) M34AB PL (x 10)	25 mm	27 kN	8 kN	7 kN	CE EN 362, CE EN 12275, EAC	80 g
FREINO	TWIST-LOCK	M42	15 mm	25 kN	10 kN	9 kN	CE EN 362	85 g
OMNI	TRIACT-LOCK	M37 TL / M37TLN	22 mm	20 kN	15 kN	7 kN	CE EN 362	90 g
	SCREW-LOCK	M37 SL / M37SLN						85 g
Semi-permanent connectors								
RING OPEN	Gated ring	P28	11 mm	23 kN	23 kN	-	CE EN 362	70 g
DELTA	Quick link	P11	12 mm	25 kN	10 kN	-	CE EN 362 type Q	150 g
	Quick link	P11 8, P11 8B, P11 8BN (1)	10 mm					85/95 g
GO	Quick link	P15	16 mm					60 g
DEMI ROND	Quick link	P18	10 mm					55 g

(1) Black connectors

Road protection works in Gorges du Nan, Isère, France © Petzl - vuedici.org - Hydrokarst - Département de l'Isère

Self-braking descenders

Self-braking descenders with ergonomic handle and AUTO-LOCK system allow a comfortably controlled descent and easy positioning at the work station. These devices are designed for work at height, rope access, and technical rescue and evacuation.

NEW 2019
I'D S

NEW 2019
I'D L

NEW 2019
I'D EVAC

RIG

NEW 2019
Open auxiliary brake

NEW 2019
Closed auxiliary brake

Mechanical Prusiks for tree care

Mechanical Prusiks allow the user to move around efficiently in a tree while benefiting from the handling of a classic Prusik pulley system.

NEW 2019
ZIGZAG

NEW 2019
ZIGZAG PLUS

NEW 2019
CHICANE

NEW 2019
KNEE ASCENT LOOP

NEW 2019
KNEE ASCENT CLIP

Standard descenders

Descenders with a simple design, using the friction between the rope and the device to brake a descent. The speed of the descent is regulated by varying the grip on the free end of the rope.

HUIT

RACK

Personal escape system

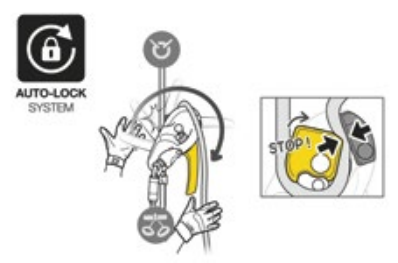
Rescue device that allows a single person to get him/herself out of a building or structure in case of an emergency.
It has a multi-purpose anchor hook adapted for locations where the possibility of finding an anchor point is uncertain.

EXO AP HOOK

Self-braking descenders

Easy to use, self-braking descenders adapt to any situation encountered during work at height, rope access work, or technical rescue: descending, work positioning, short rope ascents, belaying with climbing techniques.

• Easy to use

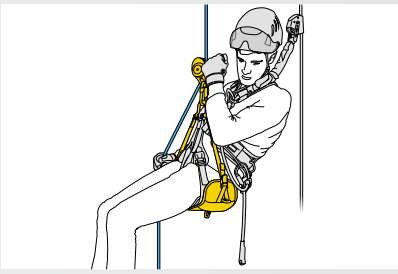


AUTO-LOCK system
The AUTO-LOCK system allows users to easily position themselves at a work station without having to manipulate the handle or tie off the device: as soon as the user releases the handle, the rope is automatically locked in the device.

Installation of the rope
The device has a safety gate on the moving side plate that allows the rope to be installed easily while the device remains connected to the harness.

Comfortable, controlled descent
The ergonomic handle allows unlocking the rope and comfortably controlling the descent. Two descent modes are possible: on the side plate or in the V-shaped friction channel

• Versatile

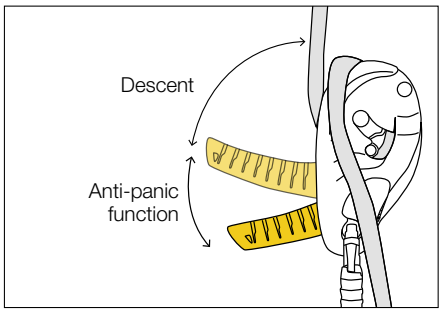


Self-braking descenders are versatile and can be used for both descents and short rope ascents.

• Wear resistance

The stainless steel wear plate improves durability by reinforcing the rope friction zone.

• With anti-panic function and anti-error catch



Designed for work at height, rope access, and technical rescue and evacuation, these devices are equipped with an anti-panic function and an anti-error catch, limiting the risk of an accident due to user error. They are also compatible with auxiliary brakes, in order to increase the braking friction for descents with heavy loads.

• Compact and lightweight

The RIG descender is compact and lightweight, and designed for experienced rope access workers.

NEW 2019

I'D® S

Self-braking descender with anti-panic function for work at height and rope access work

The self-braking I'D S descender is primarily designed for work at height and rope access work. It has an ergonomic handle that allows convenient descent control. The integrated anti-panic function and anti-error catch limit the risk of an accident due to user error. The AUTO-LOCK system allows users to easily position themselves at the work station without having to manipulate the handle or tie off the device. Once locked, the rope can be taken up without having to manipulate the handle. The safety gate allows the rope to be installed with the device remaining connected to the harness. I'D S is compatible with 10 to 11.5 mm ropes and allows handling of loads up to 250 kg.

NEW 2019

I'D® L

Self-braking descender with anti-panic function for technical rescue

The I'D L self-braking descender is primarily designed for technical rescue. It has an ergonomic handle that allows convenient descent control. The integrated anti-panic function and anti-error catch limit the risk of an accident due to user error. The AUTO-LOCK system allows users to position themselves without having to manipulate the handle or tie off the device. Once locked, the rope can be taken up without having to manipulate the handle. The safety gate allows the rope to be installed with the device remaining connected to the harness. I'D L is compatible with 12.5 to 13 mm ropes and allows handling of loads up to 280 kg.

NEW 2019

I'D® EVAC

Self-braking descender with anti-panic function for lowering from an anchor

The I'D EVAC self-braking descender is primarily designed for lowering from an anchor. The ergonomic handle is specifically oriented for managing a load from the anchor and offers comfortable descent control. The integrated anti-panic function and anti-error catch limit the risk of an accident due to user error. The AUTO-LOCK system allows the rope to be automatically locked without having to manipulate the handle or tie off the device. Once locked, the rope can be taken up without having to manipulate the handle. The safety gate allows the rope to be installed with the device remaining connected to the anchor. I'D EVAC is compatible with 10 to 11.5 mm ropes and allows handling of loads up to 250 kg.

Accessories

NEW 2019

Open auxiliary brake for I'D®

Open auxiliary brake for I'D S, I'D L and I'D EVAC self-braking descenders

The open auxiliary brake is designed for I'D self-braking descenders. It is used to increase the friction depending on the load and the diameter of the rope, and allows the rope to be inserted or removed at any time.

NEW 2019

Closed auxiliary brake for I'D®

Closed auxiliary brake for I'D S, I'D L and I'D EVAC self-braking descenders

The closed auxiliary brake is designed for I'D self-braking descenders. It allows the friction to be increased depending on the load and rope diameter, and provides a constant redirect of the rope.

RIG

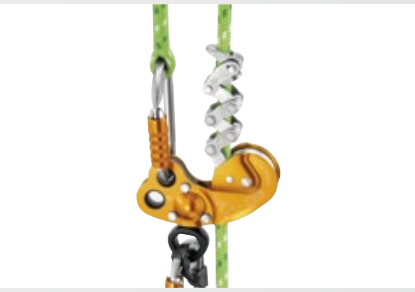
Compact self-braking descender for rope access, designed for experienced users

RIG is a compact self-braking descender for rope access, designed for experienced users. It has an ergonomic handle that allows convenient descent control. The AUTO-LOCK system allows users to easily position themselves at the work station without having to manipulate the handle or tie off the device. Once locked, the rope can be taken up without having to manipulate the handle. The safety gate allows the rope to be installed with the device remaining connected to the harness.

Mechanical Prusiks for tree care

Mechanical Prusiks allow arborists to optimize their movement within a tree. They are user-friendly and intuitive to use. To meet a variety of needs, they can be used on doubled rope and single rope.

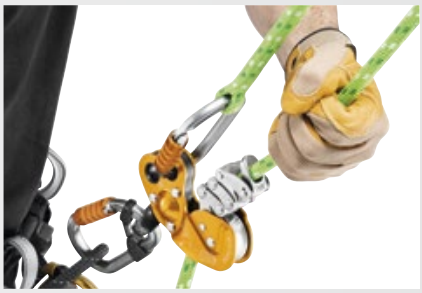
• Intuitive to use



The technique is identical to that of a classic Prusik pulley system, offering immediate usability. The device locks automatically once the friction chain is extended.

• For efficient movement

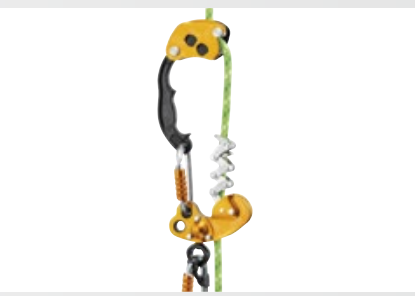
Smooth, precise rope feed
The release lever is mounted on a spring, for great precision when moving around. Adjusting the pressure on this lever controls the speed of movement.



Slack easily taken up
The pulley is mounted on sealed ball bearings to allow the slack to be taken up easily when moving around. The widely spaced side plates also contribute to smooth rope glide.

• Versatile

Use on doubled ropes
ZIGZAG and ZIGZAG PLUS allow use on doubled ropes.



Use on a single rope
They can also be used on a single rope, thanks to the CHICANE accessory, which offers more friction on the descent, and the KNEE ASCENT assemblies, which facilitate the ascent.

• Standard version

The lower attachment hole is fixed to ensure alignment of the device with the axis of the worker and to optimize grip.

• Version with high-efficiency swivel

The lower attachment hole with high-efficiency swivel ensures stable and correct positioning of the mechanical Prusik and optimal rope glide through the device.

ZIGZAG®

Mechanical Prusik for tree care

The ZIGZAG mechanical Prusik allows the user to move around efficiently in a tree using classic Prusik pulley system technique. The friction chain provides precision and fluidity when moving around. The pulley is mounted on sealed ball bearings to allow the slack to be taken up easily. Can be used on either doubled ropes or a single rope, providing great versatility. The lower attachment hole is fixed to ensure alignment of the device with the axis of the worker and to optimize grip.

ZIGZAG® PLUS

Mechanical Prusik with high-efficiency swivel, for tree care

The ZIGZAG PLUS mechanical Prusik allows the user to move around efficiently in a tree using classic Prusik pulley system technique. The friction chain provides precision and fluidity when moving around. The pulley is mounted on sealed ball bearings to allow the slack to be taken up easily. Can be used on either doubled ropes or a single rope, providing great versatility. The lower attachment hole with high-efficiency swivel ensures stable and correct positioning of the mechanical Prusik and optimal rope glide through the device.

Accessories

CHICANE

Auxiliary brake for mechanical Prusik on single ropes, for tree care

The CHICANE auxiliary braking device allows ZIGZAG and ZIGZAG PLUS mechanical Prusiks to be used on single ropes. It provides continuous additional friction on descents. The excellent compatibility of the CHICANE and mechanical Prusik as an assembled unit ensures smooth rope glide through the brake during ascents. The ergonomic handle provides excellent grip and facilitates movement while limb walking. Thanks to the openable side plate, installation is quick and easy.

KNEE ASCENT LOOP

Knee ascender assembly with foot loop to facilitate ascents on a single rope, for tree care

The KNEE ASCENT LOOP assembly facilitates the arborist's ascent when using the ZIGZAG or ZIGZAG PLUS mechanical Prusik on a single rope. It contains an upper strap, a CROLL L rope clamp, a lower strap with foot loop and an XS size TOOLBAG tool pouch. The system is entirely adjustable and adapts to all shapes and sizes. All components are available separately.

KNEE ASCENT CLIP

Knee ascender assembly with connector for boot, facilitating single rope ascents in tree care

The KNEE ASCENT CLIP assembly facilitates the arborist's ascent when using the ZIGZAG or ZIGZAG PLUS mechanical Prusik on a single rope. It contains an upper strap, a CROLL L rope clamp, a lower strap with connector that attaches to the sewn webbing on the top of the arborist's boot, and an XS size TOOLBAG tool pouch. The system is entirely adjustable and adapts to all shapes and sizes. All components are available separately.

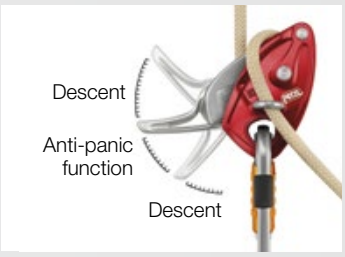
Standard descenders

HUIT
Figure-8 descender
Figure-8 descender, compact and lightweight. Square shape helps reduce rope twist.

RACK
Variable friction descender with brake bars
The design and configuration of the RACK bars make it easy to set up and insert the rope. Compact and lightweight, the device allows the user to adjust the amount of friction during the descent, to adapt to changing conditions.

Personal escape system

EXO® AP HOOK
Personal escape system with anchor hook
EXO AP HOOK is a personal escape system with HOOK anchor hook adapted for locations where the possibility of finding an anchor point is uncertain. It has a self-braking system with anti-panic function for quickly moving horizontally, climbing through a window and controlling and stopping a descent. If the user pulls too hard on the handle, the anti-panic function brakes and stops the descent automatically. EXO AP HOOK also includes a rope that resists wear and high temperatures, an Am'D connector with CAPTIV positioning bar, as well as a bag for transporting and attaching the system directly to the harness. Other rope lengths and other types of connectors (EASHOOK...) available by special order.



If the user pulls too hard on the handle, the anti-panic function brakes and stops the descent automatically.

The anchor hook may be used around a structure, fixed with a locking hitch.

Because of the unique shape of the anchor hook, specific Petzl training for the EXO AP HOOK is mandatory.

		Certifications	Rope diameter compatibility	Maximum working load	Weight
Self-braking descenders					
NEW 2019 I'D S	D020AA00 (yellow) D020AA01 (black)	EN 341 type 2 class A (1) CE EN 12841 type C (2) CE EN 15151-1 (3) ANSI Z359.4 (4) NFPA 1983 Technical Use (5) EAC	10 to 11.5 mm	Descending a heavy load up to 250 kg	600 g
NEW 2019 I'D L	D020BA00 (red) D020BA01 (black)	EN 341 type 2 class A (6) CE EN 12841 type C (7) ANSI Z359.4 (8) NFPA 1983 General Use (9) EAC	12.5 to 13 mm	Descending a heavy load up to 280 kg	600 g
NEW 2019 I'D EVAC	D020CA00 (yellow) D020CA01 (black)	EN 341 type 2 class A (1) CE EN 12841 type C (2) ANSI Z359.4 (4) NFPA 1983 Technical Use (5) EAC	10 to 11.5 mm	Descending a heavy load up to 250 kg	615 g
RIG	D021AA00 (yellow) D021AA01 (black)	CE EN 12841 type C EN 341 type 2 class A CE EN 15151-1 NFPA 1983 Technical Use EAC	10 to 11.5 mm	Descending a heavy load up to 200 kg	400 g
NEW 2019 Open auxiliary brake for I'D	D020DA00	-	-	-	20 g
NEW 2019 Closed auxiliary brake for I'D	D020EA00	-	-	-	20 g
Mechanical Prusiks for tree care					
NEW 2019 ZIGZAG	D022AA00	CE	11.5 to 13 mm	140 kg	365 g
NEW 2019 ZIGZAG PLUS	D022BA00	CE	11.5 to 13 mm	140 kg	425 g
NEW 2019 CHICANE	D022CA00	CE (with ZIGZAG or ZIGZAG PLUS mechanical Prusik)	11.5 to 13 mm	140 kg	255 g
NEW 2019 KNEE ASCENT LOOP	D022DA00	-	11.5 to 13 mm	-	280 g
NEW 2019 KNEE ASCENT CLIP	D022EA00	-	11.5 to 13 mm	-	285 g
Standard descenders					
HUIT	D02	-	8 to 13 mm (single and half ropes)	100 kg	100 g
RACK	D11	-	9 to 13 mm (single rope) 8 to 11 mm (half rope)	100 kg	470 g
Personal escape system					
EXO AP HOOK	D30AB 015	NFPA 1983 Escape Use	7.5 mm (EXO rope only)	140 kg	1470 g

(1) EN 341 type 2 class A when used with a PARALLEL 10.5 mm or AXIS 11 mm rope
(2) EN 12841 type C when used with a 10 to 11.5 mm EN 1891 A rope
(3) EN 15151-1 when used with a 9 to 11 mm rope
(4) ANSI Z359.4 when used with a 10 to 11.5 mm rope
(5) NFPA 1983 Technical Use when used with a 10 to 11.5 mm rope
(6) EN 341 type 2 class A when used with a VECTOR 12.5 mm rope
(7) EN 12841 type C when used with a 12.5 to 13 mm EN 1891 A rope
(8) ANSI Z359.4 when used with a 12.5 to 13 mm rope
(9) NFPA 1983 Technical Use when used with a 12.5 to 13 mm rope

Road protection works in Gorges du Nan, Isère, France © Petzl - vuedici.org - Hydrokarst - Département de l'Isère

Optimal locking

Petzl's frame-loaded rope clamps are designed to function optimally under any conditions (wet, frozen, dirty ropes, for example). They are therefore equipped with a special stainless steel cam. Its unique design, the shape of its teeth and its self-cleaning slot allow optimal grip on the rope without damaging it, while reducing the effort required to slide the device up the rope.

Rope clamps for progression

Frame-loaded rope clamps are easy to install and specially designed for rope ascents (handled rope clamps, ventral rope clamps and foot-mounted rope clamps).

ASCENSION

FOOTAPE

FOOTCORD

LOOPING

CROLL S CROLL L

SECUR

ASCENTREE

PANTIN

Versatile rope clamp

Rope clamp that can be used to ascend a fixed rope, or as progress capture in a hauling system.

BASIC

Backup rope clamp

Ultra-compact, lightweight rope clamp allows occasional rope ascents and hauling system set-ups.

TIBLOC

Cam-loaded rope clamp

Rope clamp designed for use in haul systems as a tractor or progress capture device.

RESCUCENDER

Rope clamps for progression

ASCENSION left-handed

ASCENSION right-handed

ASCENSION

Handled rope clamp for rope ascents

The ASCENSION handled rope clamp is designed for rope ascents and features an overmolded grip and ergonomic upper part for a comfortable and powerful grip when pulling with one or two hands. The ASCENSION handled rope clamp has a wide lower hole for easily attaching two carabiners for a lanyard and foot loop.

The overmolded dual-density grip has an area for the index finger and a wide, supportive base to keep the hand from slipping. Ergonomic upper part maximizes power when pulling with two hands.

PROGRESS ADJUST

Double adjustable progression lanyard

Find a description of the PROGRESS ADJUST lanyard on page 86.

PROGRESS

Progression lanyard

Find a description of the PROGRESS lanyard on page 86.

FOOTAPE

Adjustable webbing foot loop

The adjustable FOOTAPE foot loop is used with an ASCENSION or BASIC rope clamp for rope ascents. A height-adjustable elastic keeps the foot in the loop, regardless of shoe type.

FOOTCORD

Adjustable cord foot loop

The adjustable FOOTCORD foot loop is used with an ASCENSION or BASIC rope clamp for rope ascents. Its 100 % Dyneema® construction increases durability. A height-adjustable elastic keeps the foot in the loop, regardless of shoe type.

LOOPING

Four-step etrier

The LOOPING four-step etrier attaches to an ASCENSION rope clamp for rope ascents or directly onto an anchor for progression in overhangs.

CROLL®

Ventral rope clamp

Designed for rope ascents, the CROLL ventral rope clamp is simple to use, thanks to its pinch opening system, which is totally integrated in the clamp to avoid any involuntary snagging. The attachment holes ensure efficient positioning during ascents. It is available in two versions to adapt to different rope diameters.

SECUR

Shoulder straps for positioning the CROLL ventral rope clamp

SECUR shoulder straps position the CROLL ventral rope clamp and attach to AVAO SIT, FALCON, FALCON ASCENT and SEQUOIA SRT harnesses.

ASCENTREE

Double handled rope clamp for tree care

Handled rope clamp designed for doubled rope ascents, the ASCENTREE has ergonomic handles allowing a comfortable and powerful grip when pulling. Catch/cam unit is totally integrated to prevent any involuntary snagging.

PANTIN left-foot

PANTIN right-foot

PANTIN®

Foot ascender

The PANTIN foot ascender is used with the CROLL, ASCENSION or ASCENTREE rope clamps to make rope ascents faster and less tiring. It is available in right- and left-foot versions.

Catch available as accessory to keep the rope in the device during rope ascents.

Rope clamps

Versatile rope clamp

BASIC

Compact, versatile rope clamp

The BASIC rope clamp is very compact, making it easy to grip.
The wide lower hole allows lanyard and foot loop carabiners to be easily connected.

Backup rope clamp

TIBLOC

Backup rope clamp

Extremely compact and lightweight, the TIBLOC is a backup rope clamp for ascending ropes or setting up hauling systems.

Cam-loaded rope clamp

RESCUCENDER

Openable cam-loaded rope clamp

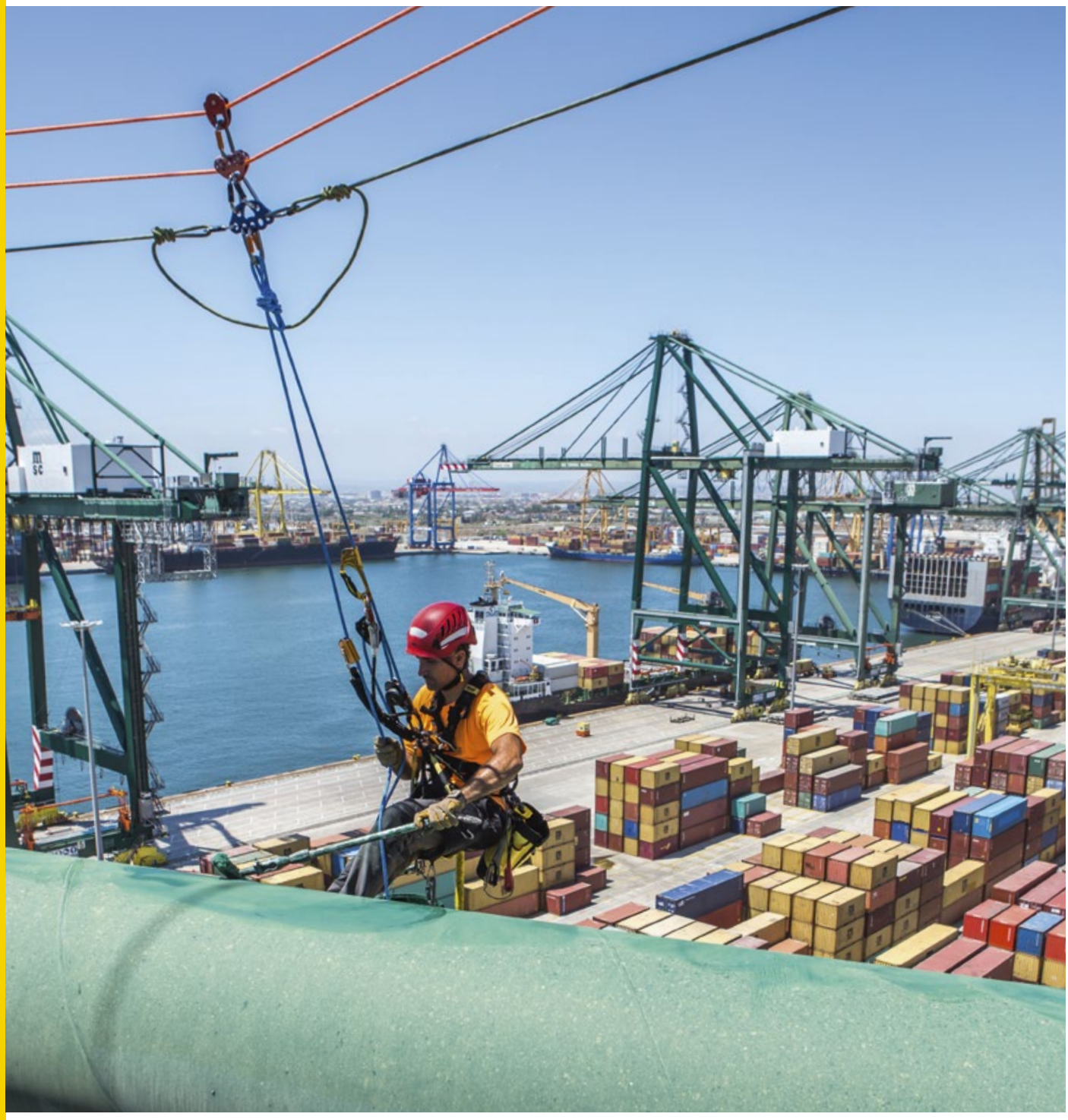
Simple to use and ergonomic, the RESCUCENDER is an openable cam-loaded rope clamp designed for use in haul systems as a tractor or progress capture device.

Openable guided cam allows easy installation or removal of the rope clamp at any point on the rope.

The safety catches are equipped with indicators that show when they are unlocked.

			Certifications	Rope diameter compatibility	Weight
Rope clamps for progression					
ASCENSION		B17ALA (left-handed, black/yellow) B17ALN (left-handed, black) B17ARA (right-handed, black/yellow) B17ARN (right-handed, black)	CE EN 567, CE EN 12841 type B, NFPA 1983 Technical Use, EAC	8 to 13 mm	165 g
FOOTAPE		C47A	-	-	65 g
FOOTCORD		C48A	-	-	40 g
LOOPING		C25	-	-	145 g
CROLL S		B16BAA	CE EN 567, CE EN 12841 type B, EAC, NFPA 1983 Technical Use	8 to 11 mm	85 g
CROLL L		B016AA00	CE EN 567, CE EN 12841 type B, EAC, NFPA 1983 Technical Use	8 to 13 mm	140 g
SECUR		C74A	-	-	135 g
ASCENTREE		B19AAA	CE	8 to 13 mm	330 g
PANTIN		B02CLA (left foot) B02CRA (right foot)	The PANTIN is not an item of PPE	8 to 13 mm	85 g
Catch for PANTIN		B02210 (for left foot PANTIN) B02200 (for right foot PANTIN)	-	-	25 g
Versatile rope clamp					
BASIC		B18BAA	CE EN 567, CE EN 12841 type B, EAC	8 to 11 mm	85 g
Backup rope clamp					
TIBLOC		B01BN	CE EN 567, EAC	8 to 11 mm	35 g
Cam-loaded rope clamp					
RESCUCENDER		B50A	CE EN 567, CE EN 12841 type B, NFPA 1983 Technical Use, EAC	9 to 13 mm (1) 10 to 13 mm (2)	260 g

(1) for the CE EN 567 standard, (2) for the other standards.

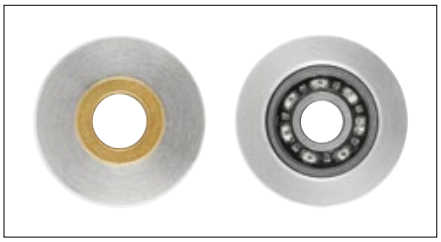


Paint job for the cranes of the merchant harbor of Valencia, Spain. © Petzl - Jan Novak photography - Vertice Vertical™

Two factors determine a pulley's efficiency:

• Sheave size: the larger the sheave diameter, the higher the efficiency

• Bushings and bearings:
- self-lubricating bushings are efficient, but they must be regularly maintained
- sealed ball bearings are very efficient, and they do not require any maintenance



High-efficiency pulleys

Versatile, high-performance pulleys adapted for intensive use.

PRO

PARTNER

RESCUE

Pulley-carabiners

Pulley-carabiners with excellent efficiency.

ROLLCLIP A

ROLLCLIP Z

Progress capture pulleys

Pulleys with an integrated progress capture system may be used to replace a traditional pulley/rope clamp set-up in hauling systems.

PRO TRAXION

MICRO TRAXION

Prusik pulleys

High-performance pulleys designed for use with a Prusik friction hitch to build a lightweight progress capture system. The shape of the side plates allows the knot to be released when it stops against the pulley.

MINI

GEMINI

MINDER

TWIN

Single pulleys

Lightweight, versatile pulleys designed for situations that do not require a high level of efficiency (redirecting the rope...).

MOBILE

FIXE

Transport pulleys

Pulleys for movement along a rope or cable. Extremely quick and easy to install, these pulleys have fixed side plates and ensure perfect stability with their two aligned sheaves.

TANDEM

TANDEM SPEED

Specialized pulleys

Specialized pulleys are designed for particular applications requiring passage of knots or movement along a mechanical lift cable.

KOOTENAY

ROLLCAB

Haul kit

Ready-to-use kit, designed to easily pick off and lower - or simply pick off - a victim.

JAG SYSTEM

JAG TRAXION

JAG

High-efficiency pulleys

PRO
Very high-efficiency loss-resistant pulley
Openable even when attached to the anchor, the PRO pulley is designed for maximum simplicity when setting up hauling or load deviation systems. The side plate that locks under load, the large-diameter sheave and the very high efficiency sealed ball bearings make a pulley that is well suited for handling heavy loads.

PARTNER
Ultra-compact, high-efficiency pulley
The PARTNER is an ultra compact, extremely lightweight pulley. It is designed for daily tasks and on-site rescue.

RESCUE
High strength, very high efficiency pulley
The very high efficiency RESCUE pulley is designed for intensive use by rescue professionals.

Pulley-carabiners

ROLLCLIP A
Pulley-carabiner that facilitates installation of the rope when pulley is connected to the anchor
ROLLCLIP A is a pulley-carabiner with a gate opening on the pulley side that facilitates installation of the rope when the pulley is fixed to the anchor. It is available with an automatic TRIACT-LOCK locking system, or without a locking system. ROLLCLIP A may be used with a CAPTIV positioning bar to favor loading of the carabiner along the major axis, to limit the risk of it flipping and to keep it integrated with the device.

The ROLLCLIP A pulley can be used as a directional point when combined with the RESCUCENDER rope clamp.

ROLLCLIP Z
Pulley-carabiner that facilitates installation on anchors and devices
ROLLCLIP Z is a pulley-carabiner with a gate opening on the non-pulley side to facilitate installation on anchors and devices. It is available in two locking systems: automatic TRIACT-LOCK system or manual SCREW-LOCK system.

The ROLLCLIP Z pulley can be used for tree care to attach the ZIGZAG descender to the attachment bridge on the SEQUOIA harness, for improved lateral mobility.

Progress capture pulleys

PRO TRAXION
Very efficient loss-resistant progress capture pulley
The PRO TRAXION progress capture pulley is designed to allow rope installation while the pulley is connected to the anchor. With its large diameter sheave and great efficiency, it is particularly appropriate for hauling heavy loads. The side plate locks when loaded and prevents opening of the pulley during use. The lower connection point can be used to create different types of hauling systems.

MICRO TRAXION
High-efficiency, ultra-compact progress capture pulley
MICRO TRAXION is an ultra-compact, extremely light progress capture pulley that is exceptionally efficient. The cam can be locked in open position so the device can be used as a simple pulley.

Prusik pulleys

MINI
Highly efficient and lightweight Prusik pulley
The MINI compact pulley offers a lightweight solution for setting up progress capture systems.

GEMINI
Highly efficient and lightweight double Prusik pulley
GEMINI is a compact double pulley that sets up progress capture systems of high mechanical advantage.

MINDER
High strength, very high efficiency Prusik pulley
MINDER is a high-strength pulley designed for rescue professionals to set up progress capture systems.

TWIN
High strength, very high efficiency double Prusik pulley
TWIN is a high-strength double pulley designed for rescue professionals. It is designed to set up progress capture systems of high mechanical advantage.

Single pulleys

MOBILE
Versatile ultra-compact pulley
Compact and extremely lightweight, the MOBILE pulley is designed for a variety of uses.

FIXE
Versatile compact pulley
Versatile and compact, the FIXE pulley allows quick installation onto the rope.

Transport pulleys

TANDEM® / TANDEM® SPEED

Double pulleys for Tyrolean traverses

TANDEM and TANDEM SPEED are designed for Tyroleans and can accept up to three connectors to facilitate maneuvers. TANDEM is used on a rope. TANDEM SPEED can also be used on a cable because of its wear-resistant sheaves mounted on sealed ball bearings.

Specialized pulleys

KOOTENAY

Knot-passing pulley

KOOTENAY is a knot-passing pulley that allows passage of joining knots.
The large diameter sheave mounted on sealed ball bearings ensures excellent efficiency.

ROLLCAB

Roller for movement along cable

ROLLCAB is a roller designed for movement and evacuation along mechanical lift cables.

Haul kit

JAG SYSTEM

Haul kit

The JAG SYSTEM haul kit is for pickoffs, making a releasable anchor, or tensioning a system, thanks to its 4:1 mechanical advantage and excellent efficiency (sheaves with sealed ball bearings). The collapsed kit is highly compact, allowing it to be used even when the distance to the anchor is very short. The JAG SYSTEM haul kit is quick and easy to deploy: it is ready to use thanks to the flexible cover that prevents any risk of tangling. The haul end is color-coded for instant identification. It is available in three lengths: 1, 2 and 5 meters.

JAG TRAXION

High-efficiency double progress capture pulley

The JAG TRAXION double progress capture pulley is designed for use with the JAG pulley to make a 4:1 haul system. Sheaves mounted on sealed ball bearings for excellent efficiency.

JAG

High-efficiency double pulley

The JAG double pulley is designed for use with the JAG TRAXION double progress capture pulley to make a 4:1 haul system. Sheaves mounted on sealed ball bearings for excellent efficiency.

		Certifications	Rope diameter compatibility	Sheave diameter	Ball bearings	Efficiency	Maximum working load	Weight
High-efficiency pulleys								
PRO	P46	CE EN 12278, NFPA 1983 Technical Use, EAC	7 to 13 mm	38 mm	●	95 %	2.5 kN x 2 = 5 kN	205 g
PARTNER	P52A	CE EN 12278	7 to 11 mm	25 mm	●	91 %	2.5 kN x 2 = 5 kN	56 g
RESCUE	P50A P50AN	CE EN 12278, NFPA 1983 General Use	7 to 13 mm	38 mm	●	95 %	4 kN x 2 = 8 kN	185 g
Pulley-carabiners								
ROLLCLIP A	P74 TL	CE EN 362, EN 12275, EN 12278, EAC	7 to 13 mm	18 mm	●	85 %	2 kN x 2 = 4 kN	115 g
	P74	CE EN 12275, EN 12278, EAC						105 g
ROLLCLIP Z	P75 TL	CE EN 362, EN 12278, EAC	7 to 13 mm	18 mm	●	85 %	2 kN x 2 = 4 kN	110 g
	P75 SL	CE EN 362, EN 12278, EAC						105 g
Progress capture pulleys								
PRO TRAXION	P51A	CE EN 567, NFPA 1983 Technical Use, EAC	8 to 13 mm	38 mm	●	95 %	Pulley: 2.5 kN x 2 = 5 kN Rope clamp: 2.5 kN	265 g
MICRO TRAXION	P53	CE EN 567 EAC	8 to 11 mm	25 mm	●	91 %	Pulley: 2.5 kN x 2 = 5 kN Rope clamp: 2.5 kN	85 g
Prusik pulleys								
MINI	P59A	CE EN 12278, NFPA 1983 Technical Use	7 to 11 mm	25 mm	●	91 %	2.5 kN x 2 = 5 kN	80 g
GEMINI	P66A	CE EN 12278, NFPA 1983 Technical Use	7 to 11 mm	25 mm	●	91 %	2 x 1.5 kN x 2 = 6 kN	135 g
MINDER	P60A	CE EN 12278, NFPA 1983 General Use	7 to 13 mm	51 mm	●	97 %	4 kN x 2 = 8 kN	295 g
TWIN	P65A	CE EN 12278, NFPA 1983 General Use	7 to 13 mm	51 mm	●	97 %	2 x 3 kN x 2 = 12 kN	450 g
Single pulleys								
MOBILE	P03A	CE EN 12278	7 to 13 mm	21 mm	-	71 %	2.5 kN x 2 = 5 kN	75 g
FIXE	P05W P05WN	CE EN 12278	7 to 13 mm	21 mm	-	71 %	2.5 kN x 2 = 5 kN	90 g
Transport pulleys								
TANDEM	P21	CE EN 12278	rope ≤ 13 mm	21 mm	-	71 %	10 kN	195 g
TANDEM SPEED	P21 SPE	CE EN 12278	rope ≤ 13 mm cable ≤ 12 mm	27.5 mm	●	95 %	10 kN	270 g
Specialized pulleys								
KOOTENAY	P67	CE EN 12278	8 to 19 mm	76 mm	●	-	5 kN x 2 = 10 kN	1390 g
ROLLCAB	P47	CE EN 1909	cable ≤ 55 mm	55 mm	-	-	5 kN	1470 g
Haul kit								
JAG SYSTEM	1 m 2 m 5 m P044AA00 P044AA01 P044AA02	EAC	-	-	●	-	6 kN	610 g 805 g 1460 g
JAG TRAXION	P54	CE EN 567, NFPA 1983 Technical Use	8 to 11 mm	25 mm	●	91 %	2 x 1.5 kN x 2 = 6 kN	145 g
JAG	P45	CE EN 12278, NFPA 1983 Technical Use	8 to 11 mm	25 mm	●	91 %	2 x 1.5 kN x 2 = 6 kN	120 g

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Rock and concrete anchors

Elements that allow installation of temporary or permanent fixed anchors.

COEUR BOLT STEEL

COEUR BOLT STAINLESS

COEUR BOLT HCR

COEUR PULSE

COEUR STEEL

COEUR STAINLESS

COEUR HCR

COLLINOX

BAT'INOX

Rigging equipment

Swivels provide a solution to the problems of twisting and tangling ropes, especially when hauling.

Rigging plates allow the work station to be organized and increase the number of anchoring options.

The rings allow multiple anchors to be organized.

MICRO SWIVEL

SWIVEL OPEN

SWIVEL

PAW

RING

RING OPEN

Anchor straps

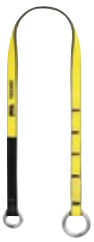
Slings designed for installation of easily transportable temporary anchors, offering adjustability, or a choice of lengths.

ANNEAU

ST'ANNEAU

PUR'ANNEAU

CONNEXION

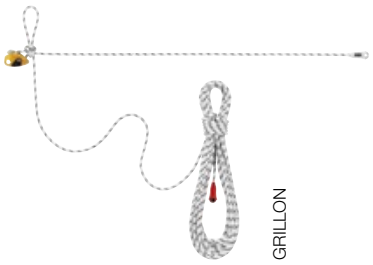

TREESBEE

TREESBEE SCREWLINK

Quick adjustment anchor

GRILLON

Temporary horizontal lifeline


GRILLON

Rock and concrete anchors

COEUR BOLT STEEL / STAINLESS / HCR

Anchors comprised of a COEUR hanger, a nut and a bolt (pack of 20)

Different steels suited to various environments

Petzl anchors (hangers and bolts) use different types of steels to adapt the anchor to the environment in which it is used:

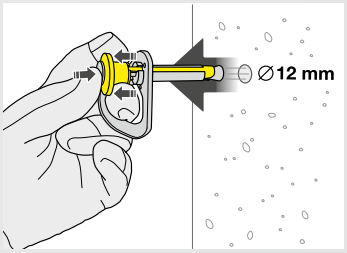
- Standard steel, designed for interior uses or non-permanent installations: **COEUR BOLT STEEL**
- 316L high quality stainless steel, designed for typical exterior uses: **COEUR BOLT STAINLESS**
- HCR 904 (High Corrosion Resistance) stainless steel, designed for ultra-corrosive environments: **COEUR BOLT HCR**

Hangers (COEUR STEEL, COEUR STAINLESS and COEUR HCR) and bolts (BOLT STEEL, BOLT STAINLESS and BOLT HCR) are also available separately (pack of 20).

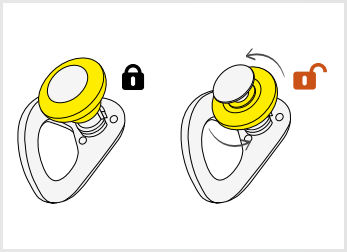
COEUR PULSE

Removable 12 mm anchor with locking function

The COEUR PULSE is a 12 mm removable stainless steel anchor that can be installed and removed very simply and rapidly, without tools. The locking function limits the risk of involuntary removal.



Simple, rapid installation and removal, without tools.



Manual screw-lock function limits the risk of involuntary removal.

COLLINOX

Forged stainless steel glue-in bolt (pack of 10)

AMPOULE COLLINOX

Resin glue for COLLINOX (pack of 10)

BAT'INOX

Forged stainless steel glue-in bolt (pack of 10)

AMPOULE BAT'INOX

Resin glue for BAT'INOX (pack of 10)

Rigging equipment

MICRO SWIVEL
Compact gated swivel
The compact, gated MICRO SWIVEL is designed for attachment to a locking carabiner. It helps prevent twisting of lanyards and allows correct positioning of devices. Its design without bearings allows it to turn freely when not loaded and to stop moving when loaded in order to maintain the devices in position.

SWIVEL OPEN
Gated swivel with sealed ball bearings
The SWIVEL OPEN gated swivel features a wide opening and thus can be attached to a range of products (pulleys, lanyards...). It reduces the bulk and weight of component systems and solves the twisting and tangling problems of ropes and lanyards. Sealed ball bearings offer excellent performance and reliability.

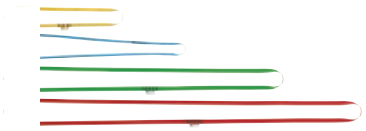
SWIVEL
Ball bearing swivel
Available in two sizes, the SWIVEL prevents the rope from twisting when the load is turning. Sealed ball bearings offer excellent performance and reliability.

PAW
Rigging plate
Available in three sizes, the PAW rigging plate is for organizing the work station and creating multi-anchor systems.

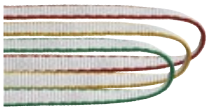
RING
Connection ring
The RING connection ring can be used to create multiple anchors or be installed directly onto the SEQUOIA and SEQUOIA SRT harnesses' attachment bridges to improve the arborist's lateral mobility.

RING OPEN
Multidirectional gated ring
See page 102 for details on the RING OPEN multidirectional gated ring.

Anchor straps



ANNEAU
Open loop sling
ANNEAU is an open loop sling available in four lengths, color-coded for easy identification of length.



ST'ANNEAU
Dyneema® webbing sling
ST'ANNEAU is a lightweight alternative to classic slings, available in three lengths, with color coding for easy identification of length.

PUR'ANNEAU
Very lightweight sling in high-modulus polyethylene
PUR'ANNEAU is a very lightweight sling with exceptional durability, thanks to its high-modulus polyethylene construction. It is particularly supple, for easy handling. Available in three lengths, color-coded for easy identification of length.

Anchor straps (cont)

CONNEXION FIXE
Anchor strap
Anchor strap with forged steel D-rings on the ends.

CONNEXION VARIO
Adjustable anchor strap
Adjustable anchor strap with adjustment buckle and forged steel D-rings on the ends.

CONNEXION FAST
Rapid adjustment anchor strap
Rapid adjustment anchor strap with rapid adjustment buckle and forged steel D-rings on the ends.

TREESBEE
False crotch for tree care, designed for ropes with spliced terminations
The TREESBEE anchor strap is used to improve rope glide at the anchor while protecting the tree from abrasion. It is designed for ropes with spliced terminations (the splice goes through the small ring).

TREESBEE SCREWLINK
False crotch for tree care, designed for ropes with sewn terminations
The TREESBEE SCREWLINK anchor strap is used to improve rope glide at the anchor while protecting the tree from abrasion. It is designed for ropes with sewn terminations (the link opens to let the sewn termination through).

Quick adjustment anchor

GRILLON anchor
Quick adjustment anchor
The adjustable GRILLON anchor can be used to quickly set a fixed anchor point. The length of rope required to set it is easily adjusted with the integrated self-locking device. The removable protective sheath allows smoother rope glide while protecting the rope from abrasive surfaces. It is available in four lengths.

Temporary horizontal lifeline

GRILLON lifeline
Temporary horizontal lifeline
GRILLON allows a horizontal lifeline to be installed quickly when there is a large work surface to cover. The integrated self-locking device allows easy adjustment of length, depending on the distance between two anchor points. It is available in four lengths to adapt to any situation.

		Certifications	Diameter	Shear strength in 50 MPa concrete	Pull-out strength in 50 MPa concrete	Weight
Rock and concrete anchors						
COEUR BOLT STEEL	P36BA 10 P36BA 12	- EN 959	10 mm 12 mm	23 kN 25 kN	15 kN 18 kN	110 g 135 g
COEUR BOLT STAINLESS	P36BS 10 P36BS 12	EN 959	10 mm 12 mm	25 kN	15 kN 18 kN	110 g 135 g
COEUR BOLT HCR	P36BH 12	EN 959	12 mm	25 kN	18 kN	145 g
COEUR STEEL	P36AA 10 / P36AA 12	EN 795 A, EN 959 (except 10 mm)	10 mm / 12 mm	-	-	65 g / 60 g
COEUR STAINLESS	P36AS 10 / P36AS 12	EN 795 A, EN 959	10 mm / 12 mm	-	-	65 g / 60 g
COEUR HCR	P36AH 12	EN 795 A, EN 959	12 mm	-	-	60 g
COEUR PULSE	P37S 12	CE EN 795 B	12 mm	25 kN	20 kN	140 g
COLLINOX	P55	EN 959	10 mm	25 kN	15 kN	95 g
AMPOULE COLLINOX	P56	-	-	-	-	14 g
BAT'INOX	P57	EN 959	14 mm	25 kN	15 kN	250 g
AMPOULE BAT'INOX	P41	-	-	-	-	20 g

		Certifications	Breaking strength	Weight
Rigging equipment				
MICRO SWIVEL	P58 XSO	CE, EAC	23 kN	75 g
SWIVEL OPEN	P58 SO	CE, EAC, NFPA 1983 Technical Use	23 kN	130 g
SWIVEL S	P58 S	CE, EAC, NFPA 1983 Technical Use	23 kN	95 g
SWIVEL L	P58 L	CE, EAC, NFPA 1983 General Use	36 kN	150 g
PAW S / M / L	P63 S / P63 SN (black) P63 M / P63 MN (black) P63 L / P63 LN (black)	CE, NFPA 1983 General Use	36 kN	55 g (S) 210 g (M) 350 g (L)
RING S / L	C04620 / C04630	CE	23 kN	40 g (S) 70 g (L)

		Certifications	Length	Breaking strength	Weight
Anchor straps					
ANNEAU	C40A 60, C40 60N (black) C40A 80, C40 80N (black) C40A 120, C40120 N (black) C40A 150	CE EN 566 CE EN 795 B EAC	60 cm 80 cm 120 cm 150 cm	22 kN	60 g 80 g 100 g 135 g
ST'ANNEAU	C07 24 C07 60 C07 120	CE EN 795 B	24 cm 60 cm 120 cm	22 kN	10 g 20 g 40 g
PUR'ANNEAU	G006AA00 G006AA01 G006AA02	CE EN 795 B	60 cm 120 cm 180 cm	22 kN	18 g 32 g 48 g
CONNEXION FIXE	C42 100 C42 150 C42 200	CE EN 795 B NFPA 1983 General Use	100 cm 150 cm 200 cm	22 kN	365 g 425 g 485 g
CONNEXION VARIO	C42 V	CE EN 795 B NFPA 1983 General Use	80 to 130 cm	22 kN	480 g
CONNEXION FAST	C42 F	CE EN 795 B NFPA 1983 Technical Use	20 to 150 cm	18 kN	440 g
TREESBEE	C04110	CE EN 795 B	110 cm	23 kN	240 g
TREESBEE SCREWLINK	C04110 M	CE EN 795 B	110 cm	15 kN	295 g

		Certifications	Length	Weight
Quick-adjust anchor and temporary horizontal lifeline				
GRILLON	L052AA00, L052AA07 (black) L052AA01, L052AA08 (black) L052AA02 L052AA03 L052AA04 L052AA05 L052AA06	CE EN 795 B and C EAC	2 m 3 m 4 m 5 m 10 m 15 m 20 m	480 g 560 g 640 g 720 g 1075 g 1475 g 1875 g

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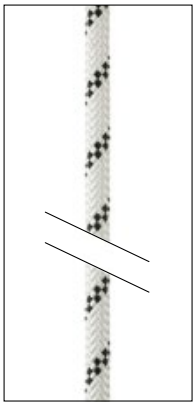
Customization by request

To more precisely meet the specific needs of certain professionals, Petzl offers a customization service.



Choice of lengths

It is possible to order a rope of a specified length.

Addition of sewn terminations

The rope can have sewn terminations manufactured on one or both ends. This makes it ready for use without adding any knots.

These terminations have a sheath that protects the stitching from abrasion and facilitates handling by holding the connector in position.

Low stretch kernmantel ropes

For work at height

Low stretch kernmantel rope with standard diameter ensures good grip for easier handling.

AXIS 11 mm

AXIS 11 mm with sewn termination

For rope access

Low stretch kernmantel rope with small diameter to ensure very good performance in terms of flexibility and weight.

PARALLEL 10,5 mm

For rescue

Low stretch kernmantel rope with a large diameter that ensures great strength and excellent handling when working with heavy loads.

VECTOR 12,5 mm

Dynamic rope

For progression using rock climbing techniques.

MAMBO 10,1 mm

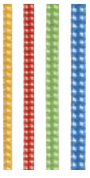
Technical cord

Cord for creation of Prusik knots, anchors or haul systems.

SEGMENT 8 mm

Accessory cord

Cord for guiding a victim during rescue, or for hauling equipment.



Cords 4, 5, 6, 7 mm

Rope protectors

Devices that protect the rope at rub points.

PROTEC

SET CATERPILLAR

ROLL MODULE

Low stretch kernmantel ropes

A specific construction for each use and a choice of lengths and colors according to user needs.

Ever Flex

• EverFlex construction: consistent performance over time

Petzl low stretch kernmantel ropes are made with a nylon core and a specially-braided polyester sheath.

This construction ensures great flexibility over time and under any conditions (water, dust, mud...). The flexibility allows it to maintain consistent handling over the long run and perform optimally with devices.

CE NFPA EAC

• Multiple certifications

Petzl low stretch kernmantel ropes are certified to the following standards:
- European: CE EN 1891 type A
- American: NFPA 1983
- Russian: EAC

• Available in several lengths and colors

Petzl low stretch kernmantel ropes come in several standard lengths, according to user needs and activities.

They are also available in six colors for easy differentiation of working ropes, safety ropes, and common access ropes.

• For work at height

Low stretch kernmantel rope with standard diameter ensures good grip for easier handling.

• For rope access

Low stretch kernmantel rope with small diameter to ensure very good performance in terms of flexibility and weight.

• For rescue

Low stretch kernmantel rope with a large diameter that ensures great strength and excellent handling when working with heavy loads.

AXIS 11 mm

Low stretch kernmantel rope with good handling for work at height

The AXIS 11 mm low stretch kernmantel rope is designed for work at height. The standard diameter ensures a good grip for easier handling. The EverFlex construction guarantees great flexibility and consistent performance over time. Rope available in six colors and four lengths.

AXIS 11 mm with sewn termination

Low stretch kernmantel rope with sewn termination and good handling, for work at height

The AXIS 11 mm low stretch kernmantel rope with sewn termination is designed for work at height. The standard diameter ensures a good grip for easier handling. The EverFlex construction guarantees great flexibility and consistent performance over time. The sewn termination with protective sheath helps keep the connector in position and facilitates handling. It is suitable for use with an ASAP mobile fall arrester, or in a rescue kit with an I'D S descender. Rope available in six lengths.

PARALLEL 10.5 mm

Low stretch kernmantel rope, flexible and lightweight for rope access

The PARALLEL 10.5 mm low stretch kernmantel rope is designed for rope access. The small diameter ensures very good performance in terms of flexibility and weight. It has low stretch when put under tension, increasing efficiency at the start of a rope ascent. The EverFlex construction guarantees great flexibility and consistent performance over time. Rope available in six colors and four lengths.

VECTOR 12.5 mm

Low stretch kernmantel, high-strength rope with excellent handling, for rescue

The VECTOR 12.5 mm low stretch kernmantel rope is designed for rescue. The large diameter ensures great strength and excellent grip when handling heavy loads. The EverFlex construction guarantees great flexibility and consistent performance over time. Rope available in six colors and four lengths.

Dynamic rope

MAMBO® 10.1 mm

Dynamic rope for progression using climbing techniques

The 10.1 mm diameter MAMBO dynamic rope is designed for work at height professionals that use climbing techniques for progression. The thick sheath improves abrasion resistance.

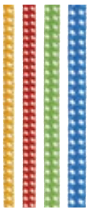
Technical cord

SEGMENT 8 mm

Technical cord

The SEGMENT 8 mm technical accessory cord is used when creating Prusik knots, anchors or haul systems. The EverFlex construction guarantees great flexibility and consistent performance over time. Cord available in three lengths.

Accessory cord



Cords

Accessory cords

These rugged and durable cords are for guiding a victim during rescue, or for hauling equipment. Available in four diameters, in a 120 meter roll.

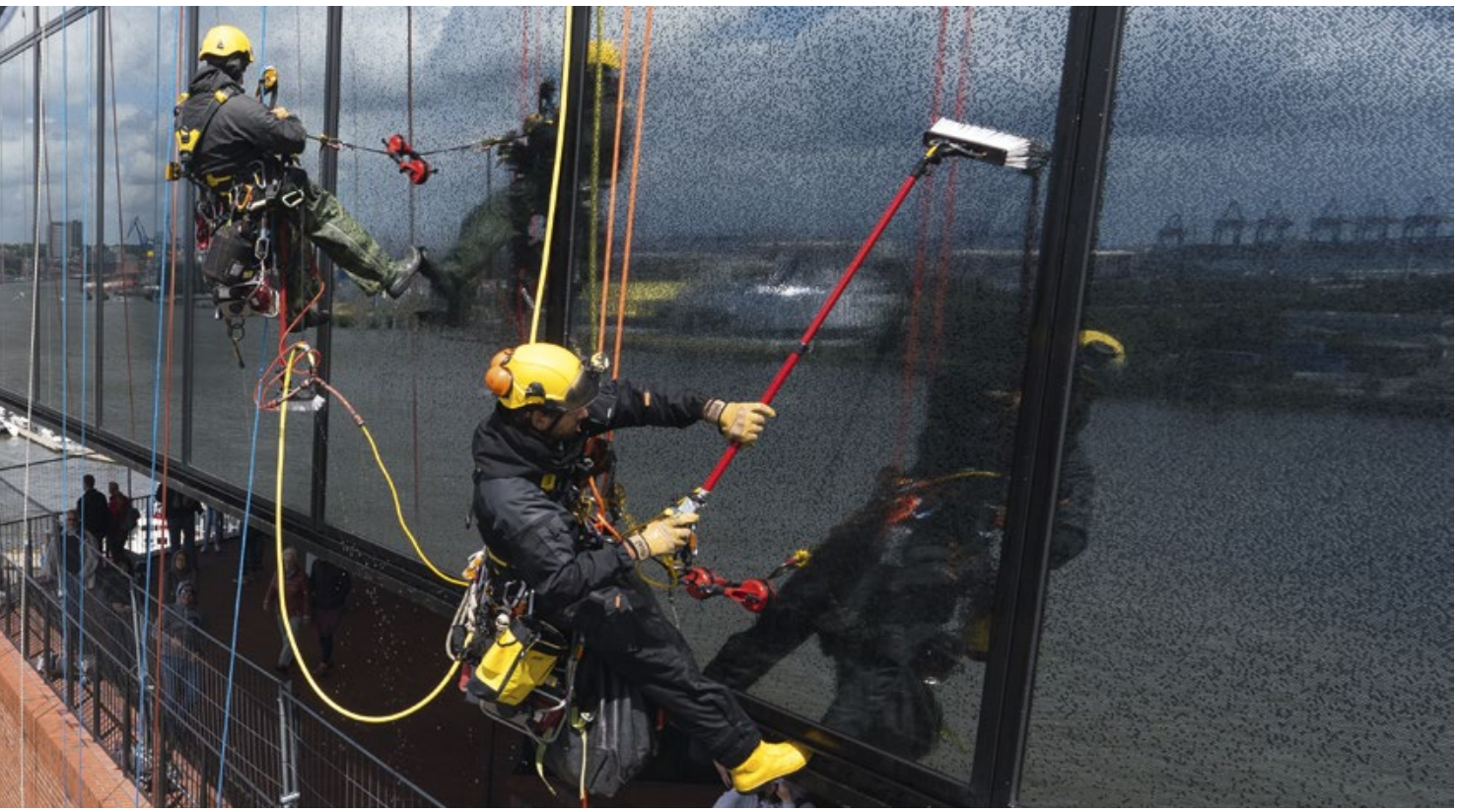
Rope protectors

PROTEC
Flexible protection
Flexible PROTEC protection helps protect a fixed rope from abrasion. It is quick and easy to install.

SET CATERPILLAR
Articulated protector
The SET CATERPILLAR articulated protector helps protect a moving rope from abrasion. The number of modules can be adapted to the terrain.

ROLL MODULE
Articulated protector with rollers
ROLL MODULE is an articulated protector with rollers designed to guide a moving rope and protect it from abrasion. It offers the possibility of adapting the number of modules to the terrain and of minimizing abrasion.

		Weight
PROTEC	C45 N	95 g
SET CATERPILLAR	P68	1055 g
ROLL MODULE	P49	1330 g



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		Colors	Lengths	European certification	US certification	Russian certification	Weight per meter
Low stretch kernmantel ropes							
AXIS **11 mm**	R074AA03	white	50 m	CE EN 1891 type A	NFPA 1983 Technical Use	EAC	82 g
	R074AA04	yellow					
	R074AA05	black					
	R074AA38	blue					
	R074AA39	red					
	R074AA40	orange					
	R074AA09	white	100 m				
	R074AA10	yellow					
	R074AA11	black					
	R074AA12	blue					
	R074AA13	red					
	R074AA14	orange					
	R074AA21	white	200 m				
	R074AA22	yellow					
	R074AA23	black					
	R074AA24	blue					
	R074AA25	red					
	R074AA26	orange					
	R074AA28	white	500 m				
	R074AA00	white	150 ft				
	R074AA01	yellow					
	R074AA02	black					
	R074AA35	blue					
	R074AA36	red					
	R074AA37	orange					
	R074AA06	white	200 ft				
	R074AA07	yellow					
	R074AA08	black					
	R074AA41	blue					
	R074AA42	red					
	R074AA43	orange					
	R074AA15	white	600 ft				
	R074AA16	yellow					
	R074AA17	black					
	R074AA18	blue					
	R074AA19	red					
	R074AA20	orange					
	R074AA27	white	1200 ft				
AXIS **11 mm** with sewn termination	R074BA00	white	10 m	CE EN 1891 type A	NFPA 1983 Technical Use	EAC	82 g
	R074BA01		20 m				
	R074BA02		30 m				
	R074BA03		40 m				
	R074BA04		50 m				
	R074BA05		60 m				
PARALLEL **10.5 mm**	R077AA03	white	50 m	CE EN 1891 type A	NFPA 1983 Technical Use	EAC	75 g
	R077AA04	yellow					
	R077AA05	black					
	R077AA35	blue					
	R077AA36	red					
	R077AA37	orange					
	R077AA09	white	100 m				
	R077AA10	yellow					
	R077AA11	black					
	R077AA12	blue					
	R077AA13	red					
	R077AA14	orange					
	R077AA21	white	200 m				
	R077AA22	yellow					
	R077AA23	black					
	R077AA24	blue					
	R077AA25	red					
	R077AA26	orange					
	R077AA28	white	500 m				

			Colors	Lengths	European certification	US certification	Russian certification	Weight per meter
Low stretch kernmantel ropes								
VECTOR **12.5 mm**		R078AA03	white	50 m	CE EN 1891 type A	NFPA 1983 General Use	EAC	111 g
		R078AA04	yellow					
		R078AA05	black					
		R078AA38	blue					
		R078AA39	red					
		R078AA40	orange					
		R078AA09	white	100 m				
		R078AA10	yellow					
		R078AA11	black					
		R078AA12	blue					
		R078AA13	red					
		R078AA14	orange					
		R078AA21	white	200 m				
		R078AA22	yellow					
		R078AA23	black					
		R078AA24	blue					
		R078AA25	red					
		R078AA26	orange					
		R078AA28	white	500 m				
		R078AA00	white	150 ft				
		R078AA01	yellow					
		R078AA02	black					
		R078AA35	blue					
		R078AA36	red					
		R078AA37	orange					
		R078AA06	white	200 ft				
		R078AA07	yellow					
		R078AA08	black					
		R078AA41	blue					
		R078AA42	red					
		R078AA43	orange					
		R078AA15	white	600 ft				
		R078AA16	yellow					
		R078AA17	black					
		R078AA18	blue					
		R078AA19	red					
		R078AA20	orange					
		R078AA27	white	1200 ft				
Dynamic rope								
MAMBO **10.1 mm**		R32AB 200	blue	200 m	CE EN 892	-	-	65 g
		R32AY 200	yellow					
Technical cord								
SEGMENT **8 mm**		R076AA00	white	50 m	CE EN 564	NFPA 1983 Escape Use	-	43 g
		R076AA03		100 m				
		R076AA06		200 m				
Accessory cord								
Cords	4 mm	R044AA00	orange	120 m	CE EN 564	-	-	10 g
	5 mm	R045AA00	red					15 g
	6 mm	R046AA00	green					24 g
	7 mm	R047AA00	blue					31 g

Pylone inspection and maintenance © Petzl - vuedici.org - Profil - TDF

Durable packs

Robust and comfortable, these packs are designed for organizing equipment, bringing it to the worksite and carrying it in a vertical environment.

TRANSPORT 45L

PORTAGE 30L

PERSONNEL 15L

BOLTBAG

PORTO

Upright packs

Placed on the ground, these packs keep their shape, even when empty, and thus facilitate access to their interior.

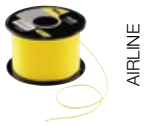
BUCKET 25L

BUCKET 35L

Tree care accessories

Specific products that help with placing an access rope in a tree.

JET


AIRLINE

ECLIPSE

Gloves

Protective gloves

CORDEX

CORDEX PLUS

Accessories

Crampons and knives that facilitate working and moving around.

SPATHA

CRAB 6

SPIKY PLUS

Durable packs

TRANSPORT 45L

Durable large-capacity bag

The TRANSPORT is an especially comfortable and durable 45 liter backpack.
It is made of PVC-free material, and its welded construction provides great strength.
It is ideal for long-distance carries with its padded back panel, waistbelt and shoulder straps.
It is made for use under difficult conditions, and also has an ID card pocket.

Waistbelt, shoulder straps
and back panel are padded
for comfort.

PORTAGE 30L

Durable medium-capacity bag

The PORTAGE is a durable and comfortable 30 liter backpack. It is made of PVC-free material,
and its welded construction provides great strength. With its padded shoulder straps,
it is comfortable during long carries. It is made for use under difficult conditions,
and also has an ID card pocket.

PERSONNEL 15L

Durable small-capacity bag

The PERSONNEL is a durable and lightweight 15 liter backpack. It is made of PVC-free material,
and its welded construction provides great strength. It is made for use under difficult conditions,
and also has an ID card pocket.

PORTO

Webbing equipment loop

Webbing equipment loop attaches to a pack's internal loop for organizing equipment.

BOLTBAG

Equipment pouch

Equipment pouch for organizing a hammer, bolting gear and other equipment.
It has two pockets and exterior holster.

Upright packs

BUCKET

Fabric pack, remains upright

Simple and durable, the BUCKET bag allows the user to store a rope and any associated equipment. It remains upright and keeps its shape, even when empty, for easy access to the contents of the bag. It is available in two colors and two versions: 25 and 35 liters.

Tree care accessories

JET

Throw-bag

Double-layer construction gives the JET throw-bag excellent longevity. Streamlined shape facilitates passage through tree branches. It is available in three versions: 250, 300 and 350 g.

AIRLINE

Throw-line

The AIRLINE throw-line offers an excellent compromise between flexibility and rigidity, for an accurate throw without the formation of knots as it comes out of the bag. The excellent sheath-core bond maintains a round cross-section, ensuring good rope glide through the tree. It is available in two versions: 60 and 300 meters.

ECLIPSE

Storage for throw-line

ECLIPSE provides easy storage for AIRLINE throw-lines and JET throw-bags. The double bottom allows two throw-lines to be stored separately. Once folded into the small bag, it all fits perfectly into the BUCKET pack.

Gloves

CORDEX
Lightweight belay/rappel gloves
These lightweight belay/rappel gloves combine the durability of a work glove with the precise fit and dexterity of a thinner glove. Double-layered leather protects the palm and other high-wear areas. The back is made of abrasion resistant, breathable stretch nylon, ensuring comfort and fit. The low profile neoprene cuff with Velcro closure features a reinforced carabiner hole for attaching the gloves to your harness.

CORDEX PLUS
Belay/rappel gloves
These medium weight belay/rappel gloves offer extra protection without sacrificing dexterity. Double-layer leather and padding protect the palm from heat generated during long rappels or lowers. Fingertips and other high-wear areas are reinforced for increased durability. The back is made of leather with abrasion-resistant stretch nylon at key flex areas. The low profile neoprene cuff with Velcro closure features a reinforced carabiner hole for attaching the gloves to your harness.

Accessories

SPATHA
Knife with carabiner hole
The SPATHA knife is designed to accompany the worker at height during all daily tasks. The profile of the blade allows easy cutting of ropes and cords. It has a carabiner hole for easily attaching the knife to the harness. It is easy to manipulate with its textured wheel, even when wearing gloves, and can be locked in the open position.

CRAB 6
6-point crampons
Six-point crampons, adaptable to all shoe sizes, used for moving over talus and snow- and ice-covered slopes.

SPIKY PLUS
Anti-slip soles
Anti-slip soles, adaptable to all shoe sizes, used for moving over snow and frozen or slippery surfaces.

			Capacity	Weight
Durable packs				
TRANSPORT 45L		S42Y 045	45 l	1250 g
PORTAGE 30L		S43Y 030	30 l	850 g
PERSONNEL 15L		S44Y 015	15 l	450 g
PORTO		C33	-	18 g
BOLTBAG		C11 A	-	170 g
Upright packs				
BUCKET		S41AY 025 (yellow)	25 l	575 g
		S41AR 025 (red)		
		S41AY 035 (yellow)	35 l	680 g
		S41AR 035 (red)		
Tree care accessories				
JET		S02Y 250	-	250 g
		S02Y 300	-	300 g
		S02Y 350	-	350 g
AIRLINE		R02Y 060	-	2.1 g/m
		R02Y 300	-	2.1 g/m
ECLIPSE		S03Y	-	500 g

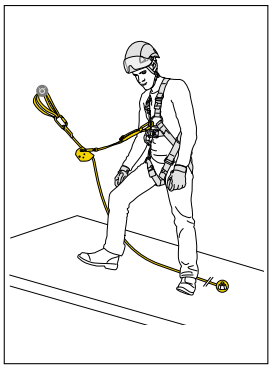
			Size	Hand circumference	Color	Certifications
Gloves						
CORDEX		K52 SN	S	8	200 mm	black	CE EN 420, CE EN 388 (3133), EAC
		K52 MN	M	8.5	215 mm		
		K52 LN	L	9	230 mm		
		K52 XLN	XL	9.5	245 mm		
		K52 XST	XS	7.5	190 mm	beige	
		K52 ST	S	8	200 mm		
		K52 MT	M	8.5	215 mm		
		K52 LT	L	9	230 mm		
		K52 XLT	XL	9.5	245 mm		
CORDEX PLUS		K53 SN	S	8	200 mm	black	
		K53 MN	M	8.5	215 mm		
		K53 LN	L	9	230 mm		
		K53 XLN	XL	9.5	245 mm		
		K53 XST	XS	7.5	190 mm	beige	
		K53 ST	S	8	200 mm		
		K53 MT	M	8.5	215 mm		
		K53 LT	L	9	230 mm		
		K53 XLT	XL	9.5	245 mm		

			Size	Color
Accessories				
SPATHA		S92AN	-	black
CRAB 6		64160	-	-
SPIKY PLUS		79510	≤ 41	-
		79520	42-45	-
		79530	≥ 46	-

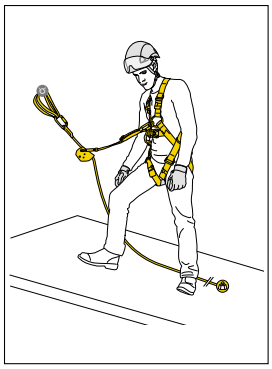
Window cleaning on the Elbphilharmonie building, Hamburg, Germany © Petzl - vuedici.org - 3Ker Ras Group/ABO Glasreingung - Elbphilharmonie

Temporary vertical lifelines and fall arrest kits

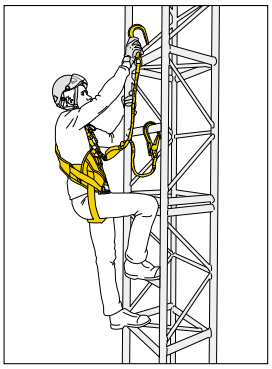
Temporary vertical lifelines and ready-to-use kits designed for belaying and fall protection.



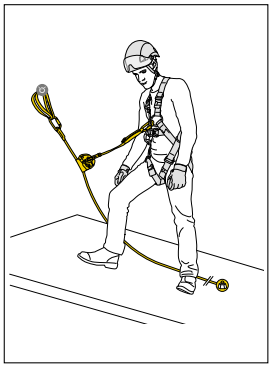
ASAP VERTICAL LIFELINE



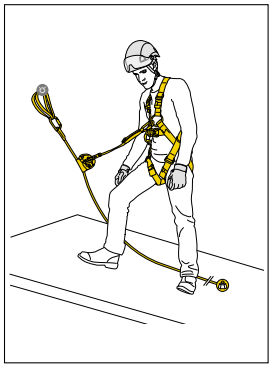
ASAP FALL ARREST KIT



ABSORBICA-Y FALL ARREST KIT



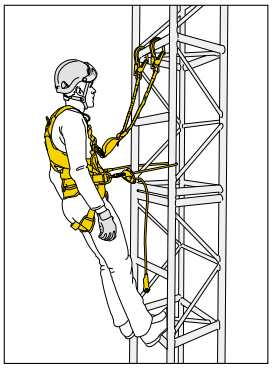
ASAP LOCK VERTICAL LIFELINE



ASAP LOCK FALL ARREST KIT

Fall arrest and work positioning kits

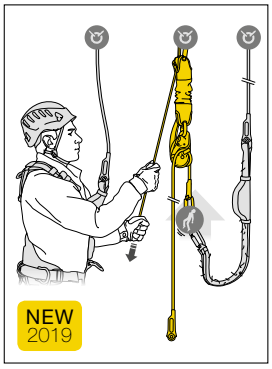
Ready-to-use kit designed to protect against falls and for positioning at a work station.



FALL ARREST AND WORK POSITIONING KIT

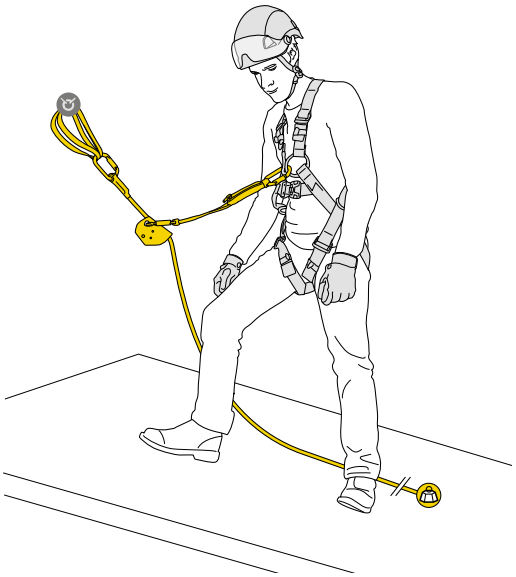
Rescue kit

Ready-to-use kit, designed to pick off and lower a victim.



JAG RESCUE KIT

Temporary vertical lifelines and fall arrest kits



ASAP® VERTICAL LIFELINE

Vertical lifeline for protection against falls with ASAP mobile fall arrester

ASAP VERTICAL LIFELINE is a temporary vertical lifeline designed for belaying and to protect against falls from height. It contains an ASAP mobile fall arrester, an ASAP'SORBER energy absorber, two OK TRIACT-LOCK carabiners, an ANNEAU open sling, an AXIS 11 mm rope with sewn termination, a weight, and a BUCKET bag. It is available in two lengths.

ASAP
- page 93 -

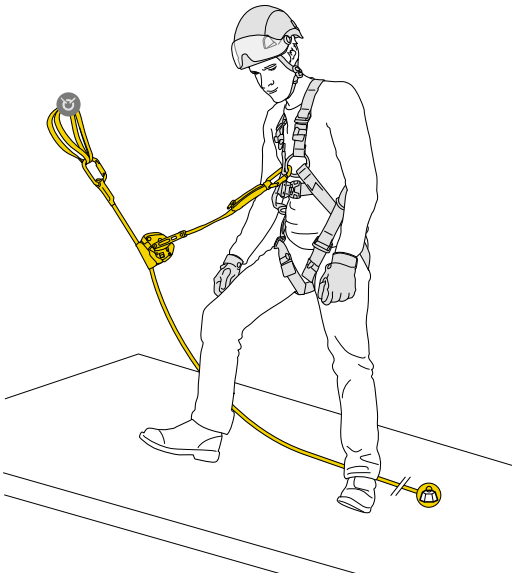
ASAP'SORBER
- page 94 -

OK TRIACT-LOCK
- page 99 -

ANNEAU
- page 127 -

AXIS 11 mm
- page 133 -

BUCKET
- page 141 -



ASAP® LOCK VERTICAL LIFELINE

Vertical lifeline for protection against falls with ASAP LOCK mobile fall arrester

ASAP LOCK VERTICAL LIFELINE is a temporary vertical lifeline designed for belaying and to protect against falls from height. It contains an ASAP LOCK mobile fall arrester with locking function, an ASAP'SORBER energy absorber, two OK TRIACT-LOCK carabiners, an ANNEAU open sling, an AXIS 11 mm rope with sewn termination, a weight, and a BUCKET bag. It is available in two lengths.

ASAP LOCK
- page 93 -

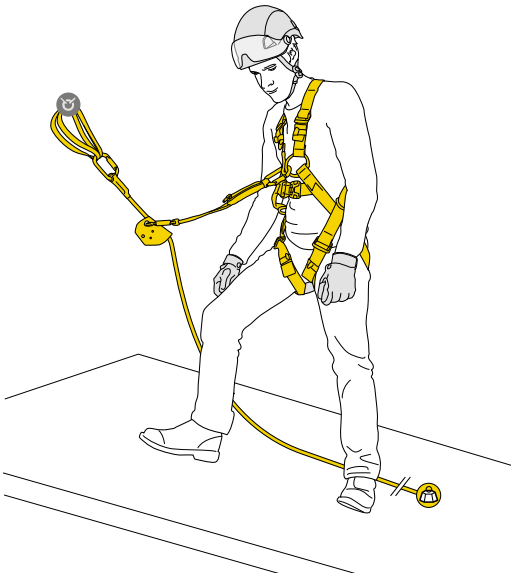
ASAP'SORBER
- page 94 -

OK TRIACT-LOCK
- page 99 -

ANNEAU
- page 127 -

AXIS 11 mm
- page 133 -

BUCKET
- page 141 -



ASAP® FALL ARREST KIT

Kit for protection against falls with NEWTON harness and ASAP mobile fall arrester

ASAP FALL ARREST KIT is a ready-to-use kit designed to protect against falls from height. It contains a NEWTON fall arrest harness, an ASAP mobile fall arrester, an ASAP'SORBER energy absorber, two OK TRIACT-LOCK carabiners, an ANNEAU open sling, an AXIS 11 mm rope with sewn termination, a weight, and a BUCKET bag. The kit is available in two sizes and four lengths.

NEWTON
- page 51 -

ASAP
- page 93 -

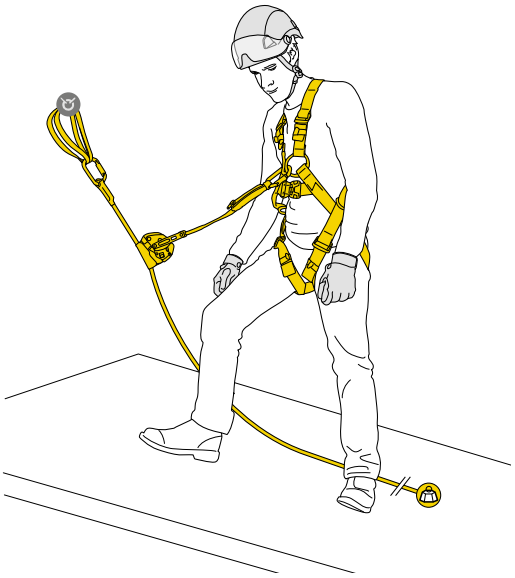
ASAP'SORBER
- page 94 -

OK TRIACT-LOCK
- page 99 -

ANNEAU
- page 127 -

AXIS 11 mm
- page 133 -

BUCKET
- page 141 -



ASAP® LOCK FALL ARREST KIT

Kit for protection against falls with NEWTON harness and ASAP LOCK mobile fall arrester

ASAP LOCK FALL ARREST KIT is a ready-to-use kit designed to protect against falls from height. It contains a NEWTON fall arrest harness, an ASAP LOCK mobile fall arrester with locking function, an ASAP'SORBER energy absorber, two OK TRIACT-LOCK carabiners, an ANNEAU open sling, an AXIS 11 mm rope with sewn termination, a weight, and a BUCKET bag. The kit is available in two sizes and four lengths.

NEWTON
- page 51 -

ASAP LOCK
- page 93 -

ASAP'SORBER
- page 94 -

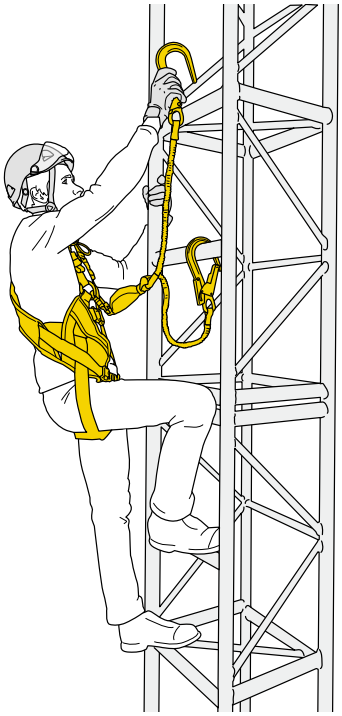
OK TRIACT-LOCK
- page 99 -

ANNEAU
- page 127 -

AXIS 11 mm
- page 133 -

BUCKET
- page 141 -

Temporary vertical lifelines and fall arrest kits

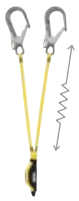


ABSORBICA-Y FALL ARREST KIT

Kit for protection against falls with NEWTON EASYFIT harness and ABSORBICA-Y 150 MGO lanyard

ABSORBICA-Y FALL ARREST KIT is a ready-to-use kit designed to protect against falls. It is optimized for work at height requiring connection to metal structures or large-diameter cables and bars. The kit contains a NEWTON EASYFIT fall arrest harness, a double lanyard with a 150 cm ABSORBICA-Y energy absorber with MGO large-opening connectors, an OK TRIACT-LOCK carabiner, a CAPTIV positioning bar, and a BUCKET bag. It is available in two sizes.

NEWTON EASYFIT
- page 51 -



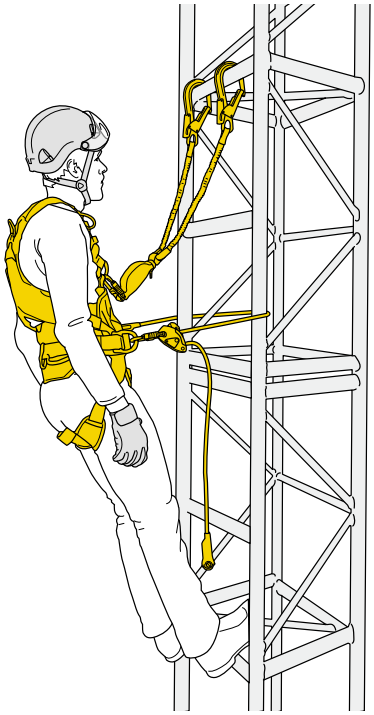
ABSORBICA-Y 150 MGO
- page 85 -

OK TRIACT-LOCK
- page 99 -

CAPTIV
- page 102 -

BUCKET
- page 141 -

Fall arrest and work positioning kit

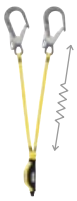


FALL ARREST AND WORK POSITIONING KIT

Fall arrest and work positioning kit with VOLT harness, ABSORBICA-Y 150 MGO lanyard, and GRILLON HOOK

FALL ARREST AND WORK POSITIONING KIT is a ready-to-use kit designed to protect against falls and for positioning at a work station. It is optimized for work at height requiring connection to metal structures or large-diameter cables and bars. The kit contains a VOLT fall arrest and work positioning harness, a double lanyard with a 150 cm ABSORBICA-Y energy absorber with MGO large-opening connectors, a 2-meter GRILLON HOOK adjustable work positioning lanyard, two OK TRIACT-LOCK carabiners, two CAPTIV positioning bars, and a BUCKET bag. It is available in two sizes.

VOLT
- page 53 -



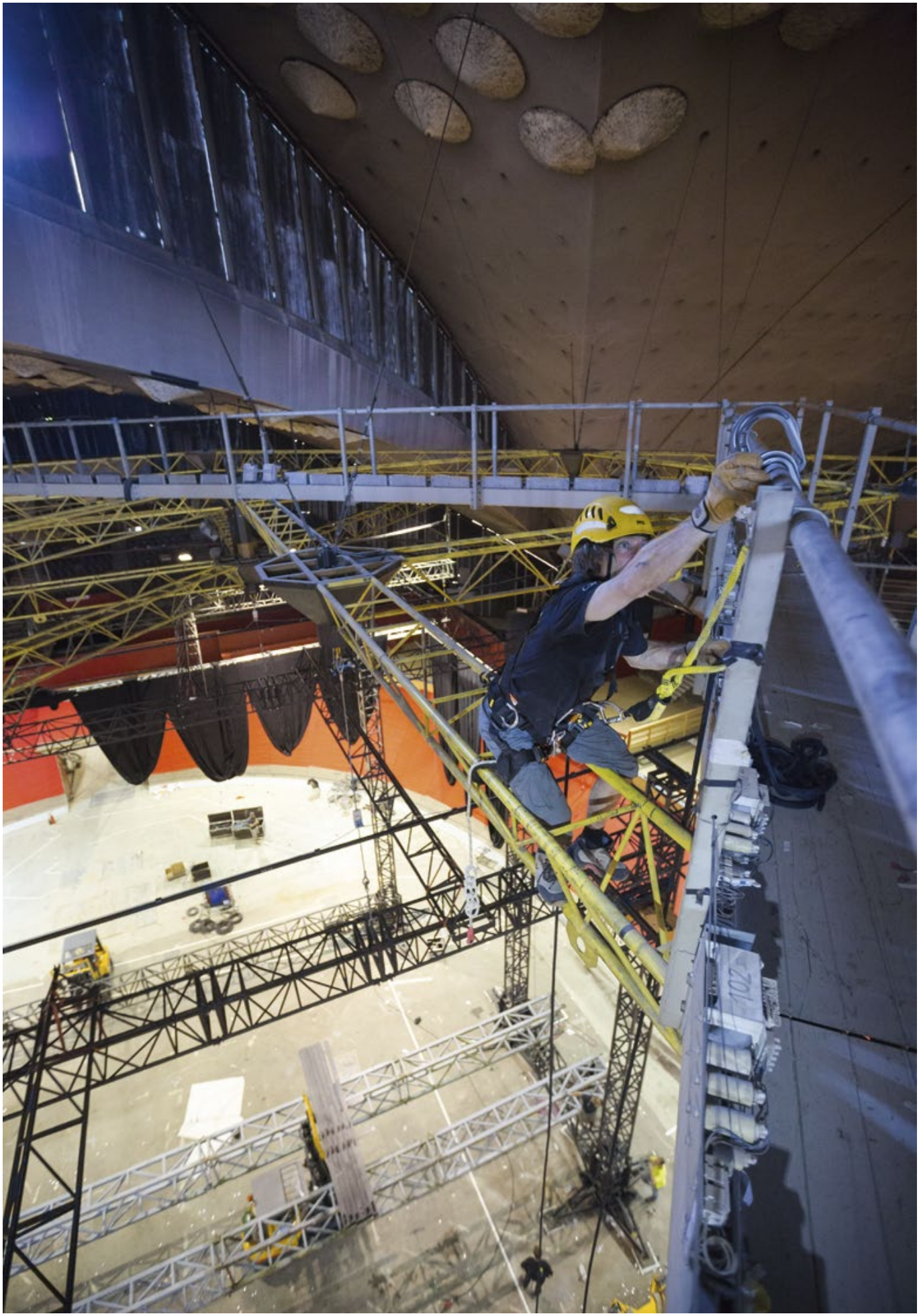
ABSORBICA-Y 150 MGO
- page 85 -

GRILLON HOOK
- page 83 -

OK TRIACT-LOCK
- page 99 -

CAPTIV
- page 102 -

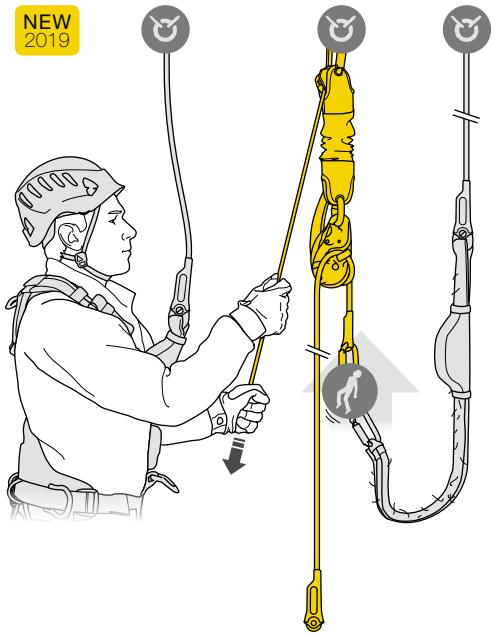
BUCKET
- page 141 -



Rigging operations in Palais des Sports de Grenoble, France © Petzl - Lafouche - RPO

Rescue kits

NEW 2019



JAG RESCUE KIT

Reversible rescue kit with JAG SYSTEM haul kit and I'D EVAC descender

The JAG RESCUE KIT is a ready-to-use reversible rescue kit designed to easily pick off and lower a victim. It contains a JAG SYSTEM haul kit, a RING OPEN gated ring, an I'D EVAC descender with integrated brake, a CONNEXION FIXE 150 cm anchor strap, a BUCKET bag and an AXIS 11 mm rope with two sewn terminations.
It is available in three lengths: 30, 60 and 120 m.

JAG SYSTEM
- page 122 -

RING OPEN
- page 102 -

I'D EVAC
- page 107 -

CONNEXION FIXE
- page 128 -

AXIS 11 mm
- page 133 -

BUCKET
- page 141 -

		Contents of kit	Harness size	Rope length	Weight
Temporary vertical lifelines and fall arrest kits					
ASAP VERTICAL LIFELINE	K091AA00	ASAP European version, ASAP'SORBER 40 cm European version, OK TRIACT-LOCK (x 2), ANNEAU 150 cm, AXIS 11 mm with sewn termination, BUCKET 25 liters	-	10 m	2325 g
	K091AA01			20 m	3125 g
ASAP LOCK VERTICAL LIFELINE	K092AA00	ASAP LOCK, ASAP'SORBER 40 cm European version, OK TRIACT-LOCK (x 2), ANNEAU 150 cm, AXIS 11 mm with sewn termination, BUCKET 25 liters	-	10 m	2455 g
	K092AA01			20 m	3255 g
ASAP FALL ARREST KIT	K093AA00	NEWTON European version, ASAP European version, ASAP'SORBER 40 cm European version, OK TRIACT-LOCK (x 2), ANNEAU 150 cm, AXIS 11 mm with sewn termination, BUCKET 25 liters	1	10 m	3375 g
	K093AA01		2	10 m	3405 g
	K093AA02		1	20 m	4175 g
	K093AA03		2	20 m	4205 g
ASAP LOCK FALL ARREST KIT	K094AA00	NEWTON European version, ASAP LOCK, ASAP'SORBER 40 cm European version, OK TRIACT-LOCK (x 2), ANNEAU 150 cm, AXIS 11 mm with sewn termination, BUCKET 25 liters	1	10 m	3505 g
	K094AA01		2	10 m	3535 g
	K094AA02		1	20 m	4305 g
	K094AA03		2	20 m	4335 g
ABSORBICA-Y FALL ARREST KIT	K095AA00	NEWTON EASYFIT international version, ABSORBICA-Y European version 150 cm MGO, OK TRIACT-LOCK (x 1), CAPTIV (x 1), BUCKET 25 liters	1	-	3390 g
	K095AA01		2		3440 g
Fall arrest and work positioning kit					
FALL ARREST AND WORK POSITIONING KIT	K096AA00	VOLT, ABSORBICA-Y European version 150 cm MGO, GRILLON HOOK European version 2 m, OK TRIACT-LOCK (x 2), CAPTIV (x 2), BUCKET 25 liters	1	-	4810 g
	K096AA01		2		4890 g
Rescue kit					
NEW 2019 JAG RESCUE KIT	K090AA00	JAG SYSTEM, RING OPEN, I'D EVAC, CONNEXION FIXE 150 cm, AXIS 11 mm rope with two sewn terminations, BUCKET 25 or 35 liters	-	30 m	4300 g
	K090AA01			60 m	6600 g
	K090AA02			120 m	11300 g

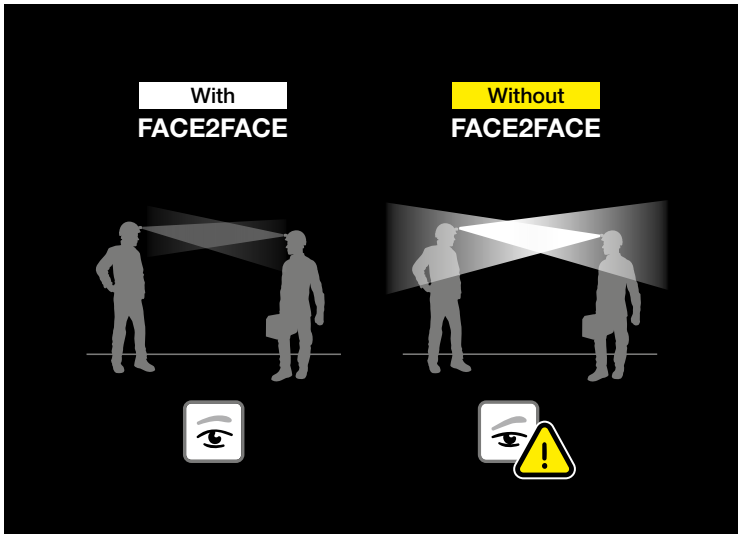
Machinery maintenance © Petzl - vuedici.org - CAN Industrie - LafargeHolcim

A line for every activity

The Petzl headlamp range covers the full spectrum of professional needs, from intensive to occasional use, and for different work environments that require varying degrees of brightness.

Professions	Industrial, maintenance, work at height and inspection	Industry, energy and networks, construction, maintenance	Concerts and shows, artisans, small maintenance jobs
Frequency of use	Intensive	Frequent	Occasional
User needs	- CONSTANT LIGHTING - ATEX certification (except DUO S) - Very strong brightness - Very long burn time - Durable - Water resistant - Teamwork	- CONSTANT LIGHTING (except PIXA Z1) - ATEX or HAZLOC certification - Long burn time - Durable - Water resistant	- STANDARD LIGHTING - Lightweight and compact - Very long burn time - Multiple lighting colors - Resistant to water spray
Petzl solutions	Performance headlamps	Compact, durable headlamps	Ultra-compact headlamps
	 DUO S	NEW 2019 PIXA Z1	 TACTIKKA CORE
	 DUO Z1	 PIXA 3R	 TACTIKKA +RGB
	 DUO Z2	 PIXA 3	 TACTIKKA +
		 PIXA 2	 TACTIKKA
		 PIXA 1	 e+LITE

Come face-to-face without blinding each other, for better teamwork

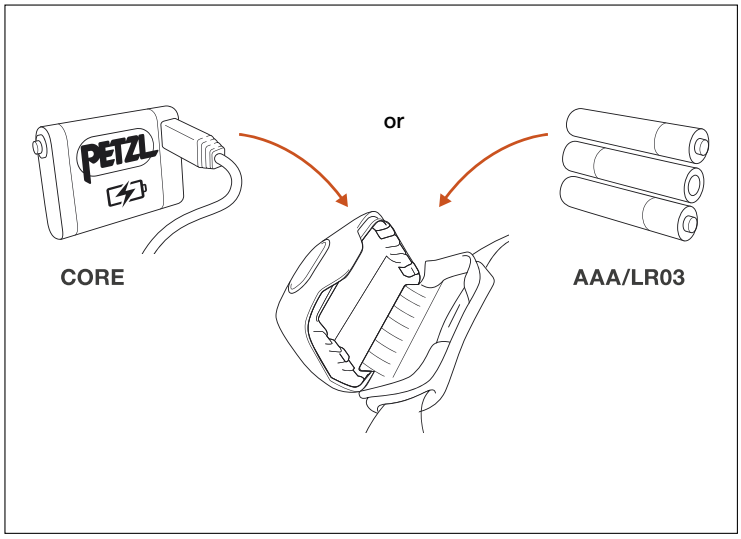


FACE2FACE FUNCTION

Once activated, the FACE2FACE function triggers a sensor that detects other DUO headlamps within 8 meters and automatically dims the lighting if they face each other. The light returns to its original intensity once the other headlamp is no longer in its line of sight.

Available on DUO S, DUO Z1 and DUO Z2 headlamps.

Choosing the energy source to fit the need



HYBRID CONCEPT

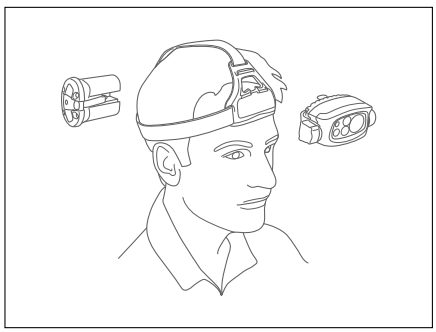
The HYBRID CONCEPT construction allows Petzl's compact headlamps to run on either the CORE rechargeable battery or three AAA/LR03 batteries, without an adapter.
- CORE rechargeable battery is an economical solution for frequent and/or intensive use
- AAA/LR03 batteries for occasional use, with very long burn time

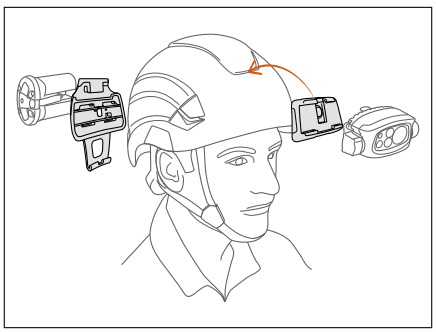
Available on all TACTIKKA CORE, TACTIKKA +RGB, TACTIKKA + and TACTIKKA headlamps.

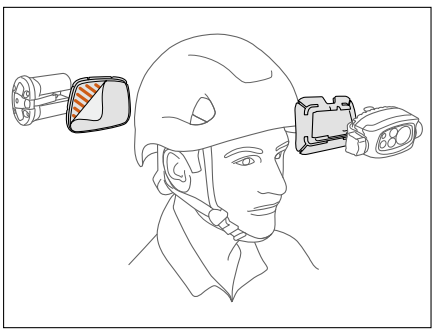
Many wear options to meet the specific needs of each work situation

All Petzl headlamps are designed to be worn on the head or a helmet, while allowing for tilting of the headlamp:

- on the head with the adjustable headband
- on Petzl helmets, using their mounting plates
- on other helmets, using adhesive plates, available as accessories





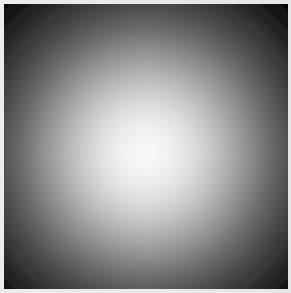


Petzl quality

Choosing a Petzl headlamp means selecting a work tool designed to withstand the most severe conditions of use, while ensuring maximum reliability.

Optical quality for optimal visual comfort

Petzl headlamps ensure maximum visual comfort for the user: lighting is uniform and has no bright point in the center, no spotting, no dark areas. Each batch of LEDs is tested and selected according to proper color homogeneity, low energy consumption, and high luminous flux. Each Petzl headlamp is individually inspected before leaving the factory. These operations include a test to measure lighting performance and beam homogeneity with the help of a digital camera.



Perfectly uniform beam: user comfort

Presence of a central bright spot: blinding

Presence of visual defects: lack of precision, discomfort, fatigue

Individual test of each lamp

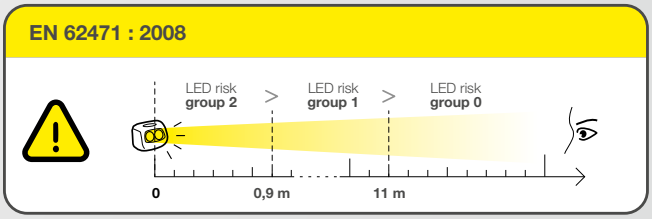
Each model must pass particularly stringent tests:
- for shock resistance, fall resistance and crushing (including at low temperatures)
- for functional reliability (mechanical endurance)
- individual inspection and test at the end of the assembly line (final quality check)
- for water resistance

Consideration of photobiological risk

Petzl has chosen to present information in its product instructions about the risks to the eyes associated with LED lighting. For this, the company uses the IEC 62778 and EN 62471: 2008 standards, Photobiological safety of lamps and devices using lamps. This standard classifies lamps according to risk groups.

The risk groups are as follows:
- Risk group 0: no risk
- Risk group 1: low risk. The product presents no risk related to exposure limits under normal usage conditions
- Risk group 2: moderate risk. The reflex to look away from the lamp suffices to reduce the risk
- Risk group 3: high risk. The product can present a risk even with a momentary or short exposure

To learn more about photobiological safety and the information given in the Instructions for Use, see the technical information on LED lighting available at www.petzl.com



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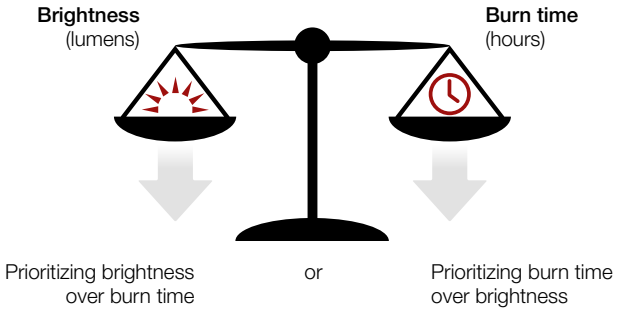
Brightness and burn time

A question of balance

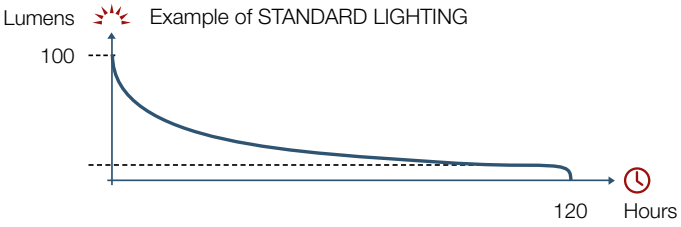
Brightness and burn time are two inextricably linked parameters of any headlamp, regardless of its lighting technology. For a given quantity of energy, increasing the brightness automatically decreases burn time, and vice versa.



The different lighting technologies used in Petzl headlamps make it possible to meet your needs, depending on what you want:

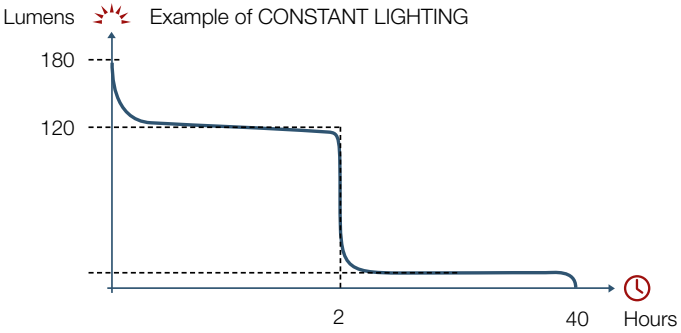
• Prioritizing burn time: STANDARD LIGHTING

Brightness decreases gradually as the batteries are drained. It is the most common technology.



• Prioritizing guaranteed brightness over time: CONSTANT LIGHTING

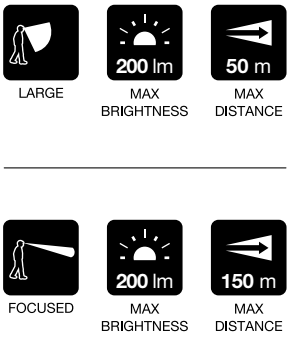
Brightness stays constant as the batteries drain. When the batteries are almost drained, the headlamp switches automatically to reserve mode, with weaker output that prolongs lighting time.



Brightness: the shape of the beam directly affects lighting distance

Lighting distance depends directly on brightness, but mainly on the shape of the beam. In fact, given the same brightness, lighting distance will vary depending on the shape of the beam.

Petzl indicates the different lighting modes available for each headlamp. These modes correspond to specific conditions of use: close-range work, moving around, seeing at a distance.



Hazardous areas

If an explosion hazard is identified in an environment, the hazardous areas are classified as areas at risk, depending on the prevalence and type of combustible, gas, or dust. All of the materials used in these zones must conform with current regulations for this type of zone (ATEX and/or HAZLOC).

How to read an ATEX marking

Example: DUO Z1

II 2 G
ATEX CODING

	II	2	GD	
EU Explosive atmosphere symbol	Equipment group	Equipment category		
	I : mining	M1 : energised		
		M2 : de-energised*		
			Gas	Dust
	II : non-mining	1 : very high protection	0	20
		2 : high protection	1	21
		3 : normal protection	2	22

* in presence of explosive atmosphere

Ex ib
ELECTRICAL PROTECTION CONCEPTS

Standard IEC/EN	Code		Zone	
60079-11	Ex ia	Intrinsic Safety	0	20
	Ex ib		1	21
	Ex ic		2	22

IIB
GAS GROUPS

Gas group	Representative test gas
I	Methane (mining only)
IIA	Propane
IIB	Ethylene
IIC	Hydrogen

Gases are classified according to the ignitability of gas-air mixture.
Refer to IEC/EN 60079-20-1 for classification of common gases and vapors.

IIIB
DUST GROUPS

Dust group	Representative test dust
IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

T4 / T135°
TEMPERATURE CLASS

T class	Maximum surface temperature
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Gb / Db
EQUIPMENT PROTECTION LEVEL

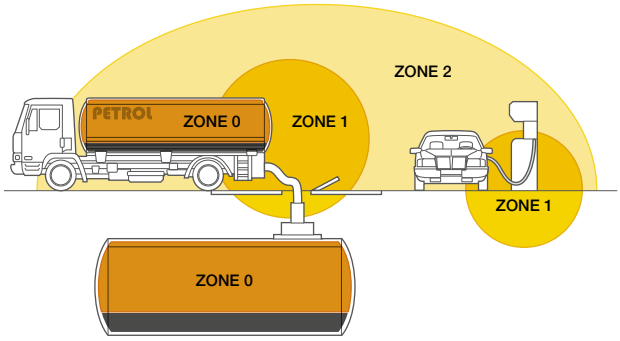
Equipment protection level	Zone
Ga	0
Gb	1
Gc	2
Da	20
Db	21
Dc	22
Ma	energised*
Mb	de-energised*

G = Gas, **D** = **D**ust, **M** = Mining
* in presence of explosive atmosphere

Classification of ATEX / HAZLOC zones

Explosive atmosphere	Gas type combustible substance		Dust type combustible substance	
	ATEX	HAZLOC	ATEX	HAZLOC
Permanent or long-term	ZONE 0	Class I Div 1	ZONE 20	Class II Div 1
Occasional	ZONE 1	Class I Div 1	ZONE 21	Class II Div 1
Accidental	ZONE 2	Class I Div 2	ZONE 22	Class II Div 2

Example of ATEX zone (gas type combustible substance)



For more information on ATEX and HAZLOC regulations, see Petzl.com

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The IP Protection Index

The IP Protection Index is an international standard. This index classifies the level of protection offered by equipment against intrusions by solids (e.g. dust) and liquids (e.g. water, oil).
The most frequent indexes for headlamps are:
- IPX4 for water resistant
- IPX7 for waterproof
- IP67 dustproof and waterproof

How do you read the protection index?

I P 6 7
- Index
- Protection
- Level of protection against solid objects
- Level of protection against liquids

Protection against solid objects
X = Not measured
0 = Not protected
1 = Protected against projection of solids ≥ 50 mm in diameter
2 = Protected against projection of solids ≥ 12.5 mm in diameter
3 = Protected against projection of solids ≥ 2.5 mm in diameter
4 = Protected against projection of solids ≥ 1 mm in diameter
5 = Protected against dust (limited ingress, no harmful deposits)
6 = Completely protected against dust

Protection against liquids
X = Not measured
0 = Not protected
1 = Protected against vertically falling water drops
2 = Protected against water drops (15° from vertical)
3 = Protected against rain (60° from vertical)
4 = Protected against splashing water
5 = Protected against water jets
6 = Protected against powerful water jets
7 = Temporary immersion (-1 meter for 30 minutes)
8 = Prolonged immersion (deeper than 1 meter for period defined by manufacturer)
9 = Prolonged immersion (deeper than 1 meter) and protection against pressure-washing

Environments and standards

Choosing your Petzl headlamp for hazardous areas in conformity with regulations

		ATEX	HAZLOC	WATER-PROOF	BATTERIES INCLUDED	RECHAR-GEABLE
DUO Z1	E80BHR E80BHR UK	ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C	-	●	-	●
DUO Z2	E80AHB	ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIB T135° C Dc Ambient temperature: -20° C to +40° C	-	●	●	-
NEW 2019 **PIXA Z1**	E78DHB 2	ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C	-	●	●	-
PIXA 3R	E78CHR 2	ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	-	●	-	●
PIXA 3	E78CHB 2	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	-	●	●	-
	E78CHB 2UL	-	HAZLOC Class 1 Div II Class 2 Div II	●	●	-
PIXA 2	E78BHB 2	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	-	●	●	-
	E78BHB 2UL	-	HAZLOC Class 1 Div II Class 2 Div II	●	●	-
PIXA 1	E78AHB 2	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	-	●	●	-
	E78AHB 2UL	-	HAZLOC Class 1 Div II Class 2 Div II	●	●	-

Headlamp specifications

MAX BRIGHTNESS	Brightness is the total quantity of light emitted by a lamp. It is expressed in lumens. The greater the quantity of light, the better you see. The value indicated is that of the most powerful lighting mode.
MAX DISTANCE	Lighting distance is linked to light output and beam pattern. It is expressed in meters and indicates the range of usable lighting. The value indicated is the maximum value.
MAX AUTONOMY	Burn time expresses the length of time a headlamp functions with power sufficient for carrying out an activity. It is expressed in hours. The value indicated is the maximum value.
RESERVE MODE	When the battery is almost drained, the headlamp switches automatically to reserve mode to guarantee minimum lighting for several hours.
LARGE	Flood beam designed for proximity lighting, to see up close or around the feet. The wide angle provides a very wide and comfortable field of vision.
MIXED	Mixed beam consists of a flood beam and a focused component, allowing both proximity lighting and longer-range vision for moving around.
FOCUSED	Narrow beam allows focused lighting on a target in order to see objects or people at a distance.
RED LIGHTING	Red lighting for more comfortable night vision. This lighting allows good vision without blinding the user or other members in the group.
RGB LIGHTING	Red, green and blue lighting allows the user to better see contrasts in the lit object in certain situations.
WHITE / RED STROBE	Red and/or white strobe lighting allows you to signal and be more easily located, for example in an emergency.
FACE2FACE FUNCTION	Petzl patented function allows users to be face-to-face without blinding one another.
LOCK UNLOCK	LOCK function to avoid accidentally turning it on during transit or storage.
HYBRID CONCEPT	Headlamp works with the rechargeable CORE battery or AAA/LR03 batteries.
RECHAR-GEABLE	Petzl headlamps that work with rechargeable batteries.
BATTERIES INCLUDED	Petzl headlamps that work with regular batteries (included).
ATEX	Headlamp meeting ATEX certification requirements for work in hazardous environments.
HAZLOC	Headlamp meeting HAZLOC certification requirements for work in hazardous environments.
WATER RESISTANT	Water-spray and weather resistant.
WATER-PROOF	Resistant to dust and temporary immersion (to 1 meter for 30 minutes).
WEIGHT	The weight indicated is that of the headlamp with its energy source (regular or rechargeable batteries).
2 m FALL	Resistance to falls (2 m).
80 kg CRUSHING	Resistance to crushing (80 kg).
CHEMICAL RESISTANT	Better resistance to chemicals.

Headlamp specifications

		STANDARD LIGHTING	CONSTANT LIGHTING	MAX BRIGHTNESS	MAX DISTANCE	MAX AUTONOMY	RESERVE MODE	LARGE	MIXED	FOCUSED	RED LIGHTING
Performance headlamps											
DUO S		-	●	1100 lm	200 m	23 h	20 lm 45 min	●	●	●	-
DUO Z1		-	●	360 lm	115 m	23 h	10 lm 1 h 30	●	●	●	-
DUO Z2		-	●	430 lm	120 m	15 h 30	10 lm 1 h	●	●	●	-
Compact, durable lamps											
NEW 2019 PIXA Z1		●	-	100 lm	95 m	56 h	5 lm 20 h	●	●	●	-
PIXA 3R		-	●	90 lm	90 m	11 h 30	10 lm 1 h 30	●	●	●	-
PIXA 3		-	●	100 lm	90 m	26 h	10 lm 13 h	●	●	●	-
PIXA 2		-	●	80 lm	55 m	26 h	10 lm 13 h	●	●	-	-
PIXA 1		-	●	60 lm	15 m	16 h	10 lm 6 h 30	●	-	-	-
Ultra-compact headlamps											
TACTIKKA CORE		●	-	350 lm	95 m	160 h	5 lm 3 h	●	●	-	●
TACTIKKA +RGB		●	-	250 lm	70 m	260 h	-	-	●	-	●
TACTIKKA +		●	-	250 lm	70 m	260 h	-	-	●	-	●
TACTIKKA		●	-	200 lm	60 m	240 h	-	●	-	-	●
e+LITE		●	-	50 lm	10 m	12 h	-	●	-	-	●

	RGB LIGHTING	WHITE / RED STROBE	FACE2FACE FUNCTION	LOCK UNLOCK	HYBRID CONCEPT	RECHAR-GEABLE	BATTERIES INCLUDED	ATEX	HAZLOC	WATER RESISTANT	WATER-PROOF	WEIGHT
	-	-	●	●	-	● wall	-	-	-	-	●	370 g
	-	-	●	●	-	● wall	-	ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C	-	-	●	370 g
	-	-	●	●	-	-	4 x AA LR06	ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIB T135° C Dc Ambient temperature: -20° C to +40° C	-	-	●	360 g
	-	-	-	●	-	-	2 x AA LR06	ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C	-	-	●	170 g
	-	-	-	●	-	● wall	-	ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	-	-	●	145 g
	-	-	-	●	-	-	2 x AA LR06	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	HAZLOC Class 1 Div II Class 2 Div II	-	●	160 g
	-	-	-	●	-	-	2 x AA LR06	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	HAZLOC Class 1 Div II Class 2 Div II	-	●	160 g
	-	-	-	●	-	-	2 x AA LR06	ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	HAZLOC Class 1 Div II Class 2 Div II	-	●	160 g
	-	● red	-	-	●	● USB	-	-	-	●	-	82 g
	●	● RGB	-	-	●	-	3 x AAA LR03	-	-	●	-	85 g
	-	● red	-	-	●	-	3 x AAA LR03	-	-	●	-	85 g
	-	● red	-	-	●	-	3 x AAA LR03	-	-	●	-	86 g
	-	● white / red	-	●	-	-	2 x lithium CR2032	-	-	-	IPX7	26 g

Performance headlamps

Durable and powerful, they are designed for intensive use in industry, maintenance and inspection.

Quarry vehicle maintenance © Petzl - vuedici.org - SAMIN

DUO S

Ultra-powerful, rechargeable multi-beam headlamp, featuring the FACE2FACE anti-glare function. 1100 lumens

DUO Z1

Powerful rechargeable multi-beam headlamp with FACE2FACE anti-glare function, certified for use in ATEX hazardous areas. 360 lumens

Pack of 5 DUO Z1

DUO Z2

Powerful multi-beam headlamp that runs on standard batteries, with FACE2FACE anti-glare function, for use in ATEX hazardous areas. 430 lumens

Accessories

ACCU 2 DUO Z1

ACCU 2

5 DUO Z1 charging rack

ACCU 2 DUO Z1 charger

Quick charger

Extension cord for headlamp

PRO ADAPT

• Guaranteed lighting over time

CONSTANT LIGHTING

CONSTANT LIGHTING technology allows lighting to remain stable as the batteries drain. When the batteries are almost drained, the headlamp switches automatically to reserve mode, with weaker output that prolongs lighting time.

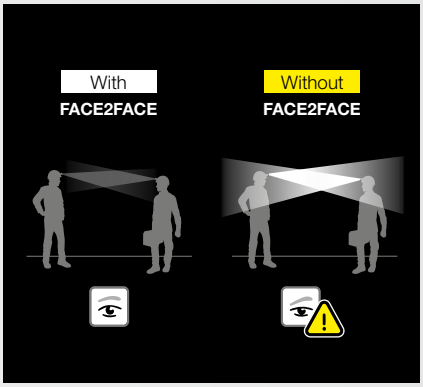
• ATEX certified lamps for use in hazardous areas

ATEX

Designed to withstand the harshest environments, DUO headlamps can be used in hazardous areas. Depending on the model, they are certified ATEX zone 1/21 or zone 2/22 (except DUO S).

Learn about choosing the ATEX headlamp that best meets your needs, page 160.

• Efficiency and comfort when working in a group



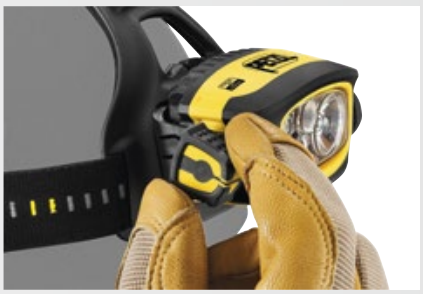
FACE2FACE FUNCTION

The FACE2FACE function allows users to be face-to-face without blinding one another. Once activated, it triggers a sensor that detects other DUO headlamps within 8 meters and automatically dims the lighting if they face each other. The light returns to its original intensity once the other headlamp is no longer in its line of sight.

• Powerful multi-beam lamps

DUO headlamps have a multi-beam with several lighting modes, to adapt to any situation: convenient lighting for proximity, movement and long-range vision. BOOST mode allows temporary access to maximum brightness.

• Comfort, ergonomics and durability



Knob can be operated with gloves to facilitate access to different lighting modes under any conditions. DUO headlamps are durable and perfectly suited for work in harsh industrial environments, including under difficult conditions (rain, snow, mud, ice...).

• Ultra-powerful lighting that runs on rechargeable battery

• Powerful lighting that runs on rechargeable battery

• Powerful lighting that runs on regular batteries

BOOST

1100 lm
MAX BRIGHTNESS

200 m
MAX DISTANCE

23 h
MAX AUTONOMY

DUO S

Ultra-powerful, rechargeable multi-beam headlamp, featuring the FACE2FACE anti-glare function. 1100 lumens

Ultra-powerful with 1100 lumens in BOOST mode, the DUO S is the most powerful rechargeable headlamp in the Petzl line. It is multi-beam, and has five lighting modes, making it adaptable to every situation: close-range work, proximity, movement, rapid movement and long-range vision. Featuring the FACE2FACE anti-glare function, the DUO S headlamp allows those working in a group to face each other without blinding one another, to work together more effectively. It can be worn on VERTEX and STRATO helmets, thanks to the included mounting plates.

BOOST

360 lm
MAX BRIGHTNESS

115 m
MAX DISTANCE

23 h
MAX AUTONOMY

DUO Z1

Powerful rechargeable multi-beam headlamp with FACE2FACE anti-glare function, certified for use in ATEX hazardous areas. 360 lumens

DUO Z1 is a headlamp with a maximum 360 lumens of lighting in BOOST mode that runs on a rechargeable battery. It is multi-beam, and has four lighting modes, making it adaptable to every situation: close-range work, proximity, movement and long-range vision. Featuring the FACE2FACE anti-glare function, the DUO Z1 headlamp allows those working in a group to face each other without blinding one another, enabling them to work more effectively together. It can be worn on VERTEX and STRATO helmets, thanks to the included mounting plates. It meets ATEX zone 1/21 (II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db) certification requirements for work in hazardous areas.

Pack of 5 DUO Z1

Pack of 5 DUO Z1 headlamps with charging rack

Pack of five DUO Z1 headlamps - comes with charging rack that allows simultaneous charging of five batteries.

BOOST

430 lm
MAX BRIGHTNESS

120 m
MAX DISTANCE

15 h 30
MAX AUTONOMY

DUO Z2

Powerful multi-beam headlamp that runs on standard batteries, with FACE2FACE anti-glare function, for use in ATEX hazardous areas. 430 lumens

The DUO Z2 headlamp provides a powerful 430 lumens in BOOST mode, and runs on regular batteries. It is multi-beam, and has four lighting modes, making it adaptable to every situation: close-range work, proximity, movement and long-range vision. Featuring the FACE2FACE anti-glare function, the DUO Z2 headlamp allows those working in a group to face each other without blinding one another, enabling them to work more effectively together. It can be worn on VERTEX and STRATO helmets, thanks to the included mounting plates. It meets ATEX zone 2/22 (II 3 GD Ex ic IIB T4 Gc IIIB T135° C Dc) certification requirements for work in hazardous areas.

Accessories

ACCU 2 DUO Z1

Rechargeable battery for DUO Z1 headlamp, usable in ATEX zone

Very high capacity rechargeable battery, 23.68 Wh, designed for the DUO Z1 headlamp. Durable and ATEX zone 1/21 (II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db) certified, it also features quick connection to the headlamp and an energy gauge for monitoring the battery's charge level.

ACCU 2

Rechargeable battery for DUO S headlamp

High-performance rechargeable battery designed for the DUO S headlamp. It is durable, and features quick connection to the headlamp and an energy gauge for monitoring the battery's charge level.

5 DUO Z1 charging rack

Charging rack, which allows simultaneous charging of five DUO Z1 headlamp batteries

EUR/US/UK compatible charging rack allows simultaneous charging of up to five ACCU 2 DUO Z1 rechargeable batteries.

ACCU 2 DUO Z1 charger

Wall charger for ACCU 2 DUO Z1 rechargeable battery

EUR/US compatible quick wall charger for ACCU 2 DUO Z1 rechargeable battery.

Quick charger

Quick wall charger for ACCU 2 rechargeable batteries

Compatible quick wall charger for ACCU 2 rechargeable battery.
Available in two versions: EUR/US compatible or UK compatible.

Extension cord for headlamp

Extension power cable for DUO S headlamp

The extension cord for the DUO S headlamp allows the user to reduce the weight carried on the head by moving the rechargeable battery to a pocket or connecting it to the back of a harness.

PRO ADAPT

Adhesive accessory for mounting a DUO headlamp on any type of helmet

PRO ADAPT consists of two adhesive plates for mounting a DUO Z1, DUO Z2, or DUO S headlamp on a helmet, and allows for tilting of the headlamp. The system is especially resistant to impact and moisture.

		Certifications	CONSTANT LIGHTING	Lighting modes	MAX BRIGHTNESS	MAX DISTANCE	MAX AUTONOMY	WEIGHT
DUO S	E80CHR E80CHR UK	CE	●	Close-range work	80 lm	20 m	23 h	370 g
				Proximity	180 lm	35 m	12 h 30	
				Movement	330 lm	70 m	6 h	
				Rapid movement	700 lm	160 m	3 h 30	
				Distance vision	450 lm	190 m	4 h 30	
				BOOST mode	1100 lm	200 m	-	
				Reserve	20 lm for 45 min			
DUO Z1	E80BHR E80BHR UK E80DHR (Pack of 5 DUO Z1)	CE, ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C	●	Close-range work	70 lm	20 m	23 h	370 g
				Proximity	170 lm	35 m	12 h	
				Movement	300 lm	90 m	7 h	
				Distance vision	140 lm	100 m	17 h	
				BOOST mode	360 lm	115 m	-	
				Reserve	10 lm for 1 h 30			
DUO Z2	E80AHB	CE, ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIB T135° C Dc Ambient temperature: -20° C to +40° C (1)	●	Close-range work	50 lm	17 m	15 h 30	360 g
				Proximity	120 lm	30 m	6 h 45	
				Movement	220 lm	80 m	2 h	
				Distance vision	180 lm	120 m	2 h 45	
				BOOST mode	430 lm	115 m	-	
				Reserve	10 lm for 1 h			

(1) Certifications guaranteed only with alkaline batteries

Accessories

		Weight
ACCU 2 DUO Z1	E80001	168 g
ACCU 2	E80002	168 g
5 DUO Z1 charging rack	E80003	1440 g
ACCU 2 DUO Z1 charger	E080AA00	170 g
Quick charger	E55800 / E55800 UK	145 g
Extension cord for headlamp	E55950	75 g
PRO ADAPT	E80004	48 g

Compact, durable headlamps

Headlamps designed for frequent use, for the energy, networks, building, and maintenance markets.

Boiler room inspection and maintenance © Petzl - Lafouche

PIXA Z1

Headlamp for use in ATEX hazardous areas, suitable for proximity lighting, movement and long-range vision. 100 lumens

NEW 2019

PIXA 3R

Rechargeable headlamp for use in ATEX hazardous areas, suitable for proximity lighting, movement and long-range vision. 90 lumens

PIXA 3

Headlamp for proximity lighting, movement and long-range vision. Available in ATEX or HAZLOC versions. 100 lumens

PIXA 2

Headlamp suitable for proximity lighting and movement. Available in ATEX or HAZLOC versions. 80 lumens

PIXA 1

Headlamp suitable for proximity lighting. Available in ATEX or HAZLOC versions. 60 lumens

Accessories

PIXADAPT

RUBBER

Rechargeable battery for PIXA 3R

POCHE PIXA

Compact, durable headlamps

• Guaranteed lighting over time

CONSTANT LIGHTING

CONSTANT LIGHTING technology allows lighting to remain stable as the batteries drain. When the batteries are almost drained, the headlamp switches automatically to reserve mode, with weaker output that prolongs lighting time (except PIXA Z1).

• Lamps for use in hazardous areas: ATEX or HAZLOC certification

ATEX

HAZLOC

Designed to withstand the harshest environments, PIXA headlamps can be used in explosive atmospheres. Depending on the model, they are certified ATEX or HAZLOC.

Learn about choosing the ATEX or HAZLOC headlamp that best meets your needs, page 160.

• Rugged, durable construction

Rotating and locking selector knob
Easy to use, even when wearing gloves. May be locked to prevent inadvertently turning on the light, with a storage position that protects the lens.

Great mechanical strength
Shocks, falls, crushing: these lamps endure the daily rigors of a professional work site.

Waterproof and chemical resistant
PIXA headlamps are waterproof (IP 67) and have been tested for resistance to various chemicals.

• For close-range work, movement, and long-range vision

LARGE MIXED FOCUSED

• For close-range work and movement

MIXED

• For close-range work

LARGE

NEW 2019

100 lm MAX BRIGHTNESS | 95 m MAX DISTANCE | 56 h MAX AUTONOMY

PIXA® Z1

Headlamp for use in ATEX hazardous areas, suitable for proximity lighting, movement and long-range vision. 100 lumens

The PIXA Z1 headlamp is durable and versatile. The multi-beam adapts to all situations: close-range work, movement, and long-range vision. It meets ATEX zone 1/21 (II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db) certification requirements for work in hazardous areas.

90 lm MAX BRIGHTNESS | 90 m MAX DISTANCE | 11 h 30 MAX AUTONOMY

PIXA® 3R

Rechargeable headlamp for use in ATEX hazardous areas, suitable for proximity lighting, movement and long-range vision. 90 lumens

The PIXA 3R headlamp is a durable, rechargeable headlamp suitable for frequent use by professionals. The multi-beam adapts to all situations: close-range work, movement, and long-range vision. CONSTANT LIGHTING technology: brightness does not gradually decrease as the batteries are drained. It meets ATEX zone 2/22 (II 3 GD Ex ic IIB T4 Gc IIIC T135° C Dc) certification requirements for work in hazardous areas.

100 lm MAX BRIGHTNESS | 90 m MAX DISTANCE | 26 h MAX AUTONOMY

PIXA® 3

Headlamp for proximity lighting, movement and long-range vision. Available in ATEX or HAZLOC versions. 100 lumens

The PIXA 3 headlamp is durable and versatile. The multi-beam adapts to all situations: close-range work, movement, and long-range vision. CONSTANT LIGHTING technology: brightness does not decrease gradually as the batteries are drained. Available in two versions: ATEX zone 2/22 (II 3 GD Ex nA ic IIB T4 Gc tc, IIIC T135° C Dc) or HAZLOC Class 1 Div II and Class 2 Div II.

80 lm MAX BRIGHTNESS | 55 m MAX DISTANCE | 26 h MAX AUTONOMY

PIXA® 2

Headlamp suitable for proximity lighting and movement. Available in ATEX or HAZLOC versions. 80 lumens

The PIXA 2 is a durable headlamp offering lighting that allows the user to work comfortably on tasks close at hand or to move around safely. CONSTANT LIGHTING technology: brightness does not decrease gradually as the batteries are drained. Available in two versions: ATEX zone 2/22 (II 3 GD Ex nA ic IIB T4 Gc tc, IIIC T135° C Dc) or HAZLOC Class 1 Div II and Class 2 Div II.

60 lm MAX BRIGHTNESS | 15 m MAX DISTANCE | 16 h MAX AUTONOMY

PIXA® 1

Headlamp suitable for proximity lighting. Available in ATEX or HAZLOC versions. 60 lumens

The PIXA 1 is a durable headlamp offering lighting that allows the user to work comfortably on tasks close at hand. CONSTANT LIGHTING technology: brightness does not decrease gradually as the batteries are drained. Available in two versions: ATEX zone 2/22 (II 3 GD Ex nA ic IIB T4 Gc tc, IIIC T135° C Dc) or HAZLOC Class 1 Div II and Class 2 Div II.

Accessories

PIXADAPT

Accessory for mounting a PIXA headlamp on a helmet

The PIXADAPT is a piece that allows the user to mount or unmount a PIXA headlamp on a helmet any time, and still keeps the option of adjusting the tilt of the headlamp. PIXADAPT is compatible with Petzl helmets with or without eye shield. For other helmets, verify compatibility with the helmet manufacturer.

RUBBER

Rubber headband for PIXA headlamp, compatible with all helmet types

The RUBBER headband adapts to all helmets on the market and holds the PIXA headlamp securely in position.

Rechargeable battery for PIXA® 3R

Rechargeable Lithium-Ion polymer battery, 930 mAh

Rechargeable Lithium-Ion polymer battery, 930 mAh, recharges separately or on the headlamp, for quick charge.

POCHE PIXA®

Carry pouch for PIXA headlamp

The POCHE PIXA pouch allows the PIXA headlamp to be carried and protected any time. The headlamp is thus always readily accessible on the waistbelt.

Accessories

		Weight
PIXADAPT	E78005	20 g
RUBBER	E78002	-
Rechargeable battery for PIXA 3R	E78003	37 g
POCHE PIXA	E78001	-

		Certifications	CONSTANT LIGHTING	Lighting modes	MAX BRIGHTNESS	MAX DISTANCE	MAX AUTONOMY	WEIGHT
PIXA Z1 NEW 2019	E78DHB 2	CE, ATEX zone 1/21 II 2 GD Ex ib IIB T4 Gb IIIB T135° C Db Ambient temperature: -20° C to +40° C (1)	-	Close-range work	30 lm	15 m	56 h	170 g
				Movement	70 lm	50 m	23 h	
				Distance vision	100 lm	95 m	16 h	
				Reserve	5 lm for 20 h			
PIXA 3R	E78CHR 2	CE, ATEX zone 2/22 II 3 GD Ex ic IIB T4 Gc IIIC T135° C Dc Ambient temperature: -30° C to +40° C	●	**STANDARD setting**				145 g
				Close-range work	20 lm	15 m	11 h 30	
				Movement	55 lm	45 m	5 h	
				Distance vision	90 lm	90 m	3 h 30	
				Reserve	10 lm for 1 h 30			
				MAX AUTONOMY setting				
				Close-range work	20 lm	15 m	11 h 30	
				Movement	20 lm	30 m	11 h 30	
				Distance vision	20 lm	50 m	11 h 30	
				Reserve	10 lm for 1 h 30			
				MAX POWER setting				
				Close-range work	90 lm	25 m	3 h	
				Movement	90 lm	55 m	3 h	
				Distance vision	90 lm	90 m	3 h 30	
				Reserve	10 lm for 1 h 30			
PIXA 3	E78CHB 2	CE, ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C (1)	●	Close-range work	20 lm	15 m	26 h	160 g
				Movement	60 lm	45 m	6 h 30	
	E78CHB 2UL	CE, HAZLOC Class 1 Div II and Class 2 Div II (1)		Distance vision	100 lm	90 m	3 h 30	
				Reserve	10 lm for 13 h			
PIXA 2	E78BHB 2	CE, ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C (1)	●	Close-range work	20 lm	25 m	26 h	160 g
				Movement	80 lm	55 m	3 h 30	
	E78BHB 2UL	CE, HAZLOC Class 1 Div II and Class 2 Div II (1)		Reserve	10 lm for 13 h			
PIXA 1	E78AHB 2	CE, ATEX zone 2/22 II 3 G Ex nA ic IIB T4 Gc II 3 D Ex tc IIIC T135° C Dc Ambient temperature: -30° C to +40° C (1)	●	Close-range work	20 lm	10 m	16 h	160 g
				Movement	60 lm	15 m	3 h 30	
	E78AHB 2UL	CE, HAZLOC Class 1 Div II and Class 2 Div II (1)		Reserve	10 lm for 6 h 30			

(1) Certifications guaranteed only with alkaline batteries

Ultra-compact headlamps

Practical, lightweight headlamps. Designed for occasional use for shows, the workshop, and for small maintenance jobs.

Cable network maintenance © Petzl - vuedici.org - Rigger Italia - Coima

TACTIKKA CORE

Compact multi-beam headlamp with red lighting and CORE rechargeable battery. 350 lumens

TACTIKKA +RGB

Compact headlamp with white or red/green/blue lighting to preserve night vision and stealth. 250 lumens

TACTIKKA +

Compact headlamp with white light and red light to preserve night vision and stealth. 250 lumens

TACTIKKA

Compact headlamp with white light and red light to preserve night vision and stealth. 200 lumens

e+LITE

Ultra-compact emergency headlamp. 50 lumens

Accessories

CORE

FIXATION TACTIKKA

KIT ADAPT

POCHE

Ultra-compact headlamps

• Long burn time

STANDARD LIGHTING

STANDARD LIGHTING technology offers an ideal compromise between power and burn time. Brightness decreases gradually as the batteries are drained.

• Simple to use

Ultra-compact headlamps are simple to use, thanks to the ergonomic button that allows quick and easy selection of lighting mode, even while wearing gloves (except e+LITE).

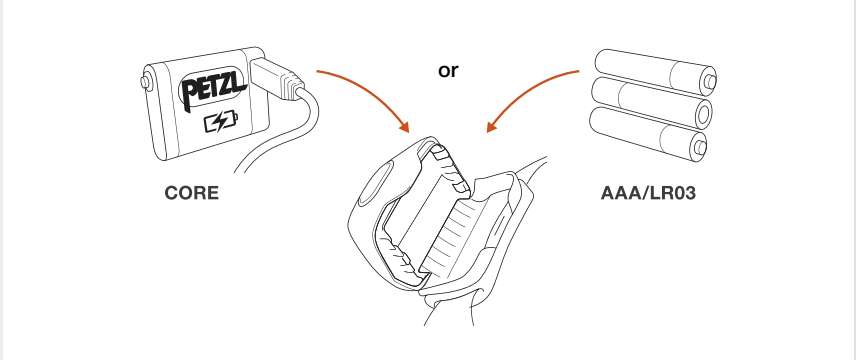
• Several beam types and lighting modes

Ultra-compact headlamps have different beam types: flood for close-range work or focused for movement. The lighting modes allow power and burn time to be adjusted as needed.

• Choose your energy source

HYBRID CONCEPT

Ultra-compact headlamps work equally well with the CORE rechargeable battery and with three AAA/LR03 batteries, without an adapter. A practical and flexible solution for managing energy requirements (except e+LITE).



• Very powerful, with rechargeable battery

• To preserve night vision and stealth

RGB LIGHTING

With red, green, blue lighting

RED LIGHTING

With red lighting

RED LIGHTING

With red lighting

• For emergencies

350 lm MAX BRIGHTNESS | 95 m MAX DISTANCE | 160 h MAX AUTONOMY

TACTIKKA® CORE

Compact multi-beam headlamp with red lighting and CORE rechargeable battery. 350 lumens

The TACTIKKA CORE headlamp offers 350 lumen brightness. It is ideal for close-range work, as well as for moving around. Featuring a mixed beam, it provides wide, focused or red stealth lighting. A HYBRID headlamp that comes with CORE, a battery that is rechargeable via standard USB port. It is compatible with standard AAA/LR03 batteries (not included) without the need for an adapter.

250 lm MAX BRIGHTNESS | 70 m MAX DISTANCE | 260 h MAX AUTONOMY

TACTIKKA® +RGB

Compact headlamp with white or red/green/blue lighting to preserve night vision and stealth. 250 lumens

Designed for occasional use, the multi-beam TACTIKKA +RGB headlamp offers 250 lumens of power and versatile lighting: comfortable proximity lighting for close-range work, focused lighting for distance vision when moving around, and red, green or blue lighting to ensure stealth and preserve night vision. TACTIKKA +RGB is a HYBRID headlamp that is also compatible with the CORE rechargeable battery.

250 lm MAX BRIGHTNESS | 70 m MAX DISTANCE | 260 h MAX AUTONOMY

TACTIKKA® +

Compact headlamp with white light and red light to preserve night vision and stealth. 250 lumens

Designed for occasional use, the multi-beam TACTIKKA + headlamp offers 250 lumens of power and versatile lighting: comfortable proximity lighting for close-range work, focused lighting for distance vision when moving around, and red lighting to ensure stealth and preserve night vision. TACTIKKA + is a HYBRID headlamp that is also compatible with the CORE rechargeable battery.

200 lm MAX BRIGHTNESS | 60 m MAX DISTANCE | 240 h MAX AUTONOMY

TACTIKKA®

Compact headlamp with white light and red light to preserve night vision and stealth. 200 lumens

Designed for occasional use, the TACTIKKA headlamp offers 200 lumens of power and versatile lighting: comfortable proximity lighting for close-range work and red lighting to preserve night vision and stealth. TACTIKKA is a HYBRID headlamp that is compatible with the CORE rechargeable battery.

50 lm MAX BRIGHTNESS | 10 m MAX DISTANCE | 12 h MAX AUTONOMY

e+LITE®

Ultra-compact emergency headlamp. 50 lumens

Ultra-lightweight and very compact, the e+LITE emergency headlamp should always be with you. Thanks to its carry case, it is always ready to use and can be stored with its batteries for ten years in a backpack, a vest, or an emergency kit, or used as a back-up headlamp. Its white or red, continuous 50-lumen lighting or strobe lighting helps you to be seen. The whistle integrated in the elastic headband allows the user to signal an emergency. Weighing only 26 grams, e+LITE is an ideal emergency headlamp.

Accessories

CORE

Rechargeable battery compatible with Petzl HYBRID headlamps

Large capacity Lithium-Ion 1250 mAh rechargeable battery guarantees high performance for HYBRID headlamps: TACTIKKA CORE, TACTIKKA, TACTIKKA + and TACTIKKA +RGB, even at low temperatures. It recharges directly with the integrated USB port. The CORE rechargeable battery offers an economical and sustainable solution as the main power supply, or as a back-up battery.

FIXATION TACTIKKA®

Kit for mounting a TACTIKKA, TACTIKKA +, TACTIKKA +RGB or TACTIKKA CORE type headlamp on a STRATO or VERTEX helmet

FIXATION TACTIKKA is a kit that allows the user to mount or unmount a TACTIKKA, TACTIKKA +, TACTIKKA +RGB or TACTIKKA CORE headlamp on a helmet any time, and keeps the option of adjusting the tilt of the headlamp. The system is especially resistant to impact and moisture.

KIT ADAPT

Kit for mounting a TIKKA type headlamp onto a helmet

The KIT ADAPT allows the user to mount or unmount a TIKKA headlamp on a helmet any time, and keeps the option of adjusting the tilt of the headlamp.

POCHE

Carrying case for ultra-compact headlamps

The POCHE case is for transport and protection of TACTIKKA, TACTIKKA +, TACTIKKA +RGB and TACTIKKA CORE headlamps in any situation.
The headlamp is thus always readily accessible on the waistbelt.

		Certifications	Lighting color	Lighting mode	MAX BRIGHTNESS	MAX DISTANCE	MAX AUTONOMY	WEIGHT
TACTIKKA CORE	E99ADA	CE	white	Close-range work	5 lm	7 m	160 h	82 g
				Movement	100 lm	50 m	7 h	
				Distance vision	350 lm	95 m	2 h	
			red	Close-range work	2 lm	6 m	40 h	
				Strobe	2 lm	700 m	350 h	
			white	reserve	5 lm for 3 h			
TACTIKKA +RGB	E89ABA (black) E89ABB (camouflage) E89ABC (desert)	CE	white	Low-intensity	5 lm	10 m	260 h	85 g
				Close-range work	100 lm	45 m	50 h	
				Movement	250 lm	70 m	50 h	
			red green blue	Close-range work	2 lm	5 m	60 h	
				Strobe	2 lm	700 m	400 h	
TACTIKKA +	E89AAA (black) E89AAB (camouflage) E89AAC (desert)	CE	white	Low-intensity	5 lm	10 m	260 h	85 g
				Close-range work	100 lm	45 m	50 h	
				Movement	250 lm	70 m	50 h	
			red	Close-range work	2 lm	5 m	60 h	
				Strobe	2 lm	700 m	400 h	
TACTIKKA	E93ACA	CE	white	Low-intensity	5 lm	10 m	240 h	86 g
				Close-range work	100 lm	40 m	60 h	
				Movement	200 lm	60 m	60 h	
			red	Close-range work	2 lm	5 m	60 h	
				Strobe	2 lm	700 m	400 h	
e+LITE	E02 P4	CE	white	Close-range work	15 lm	6 m	12 h	26 g
				Movement	50 lm	10 m	9 h	
				Strobe	Visible at 100 m for 95 h			
			red	Proximity	2 lm	100 m	15 h	
				Strobe	Visible at 100 m for 70 h			

			Weight
CORE		E99ACA	23 g
FIXATION TACTIKKA		E093CA00	12 g
KIT ADAPT		E93001	30 g
POCHE		E93990	33 g

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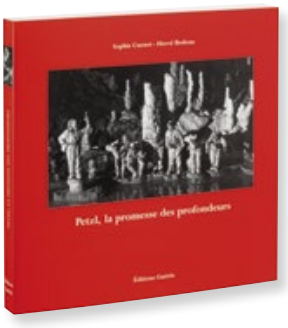

From the Deep: the Petzl Adventure

A story about a company and its environment

Though rarely in the spotlight, climbing equipment represents more than a simple accessory for mountaineers. The evolution of such carefully designed equipment bears witness to the resourcefulness that climbers use to overcome increasingly challenging terrain, and also embodies their ethical choices. The tools that climbers use clearly reflect their approach to the mountain environment.

For forty years, Petzl and its founders have played a major role in the history of mountain exploration. With the golden age of caving as the starting point of its legacy - in which Fernand Petzl played a pioneering role - the manufacturer has explored the different realms of the vertical world: rock, ice, snow, the night... The company has also successfully applied its expertise to rescue and work at height.

To read about the Petzl adventure is to follow women and men committed to the vertical world and to the very heart of exploration. In constant interaction with an ever-evolving world, they create new means of progression.

- Authors: Sophie Cuenot and Hervé Bodeau
- Preface by Lynn Hill
- 272 pages
- Available in several versions:

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- English (Z180 EN)
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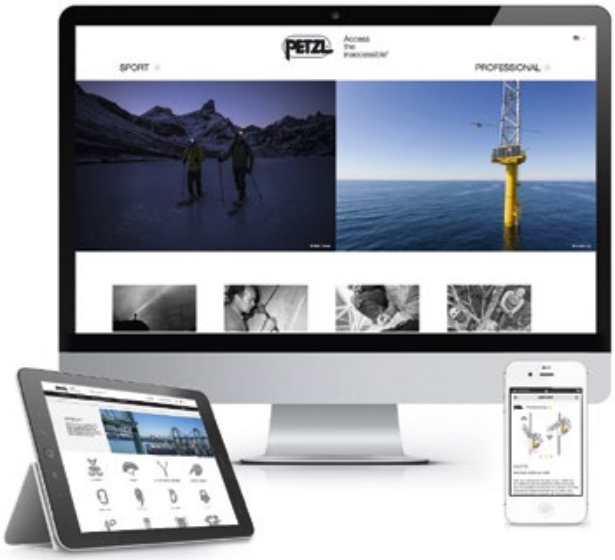

www.petzl.com

The site for professionals working at height and in dark environments.

- Discover Petzl's solutions for verticality and lighting
- Check out tips and technical information on best practices for using Petzl products
- Find all the Petzl news and reports on various trades: videos, news, portraits, events...

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The activities depicted are inherently dangerous. All users must be trained and competent in the use of the equipment for these activities.

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