



3 year guarantee / garantie 3 ans

MAESTRO S, MAESTRO L

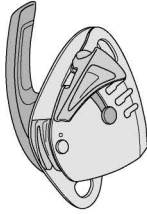
CE 0082 UK CA EAC TP TC 019/2011 EN 341 EN 12841/C NFPA

Descender with integrated progress-capture pulley
Descendeur avec poulie-bloqueur intégrée.

EN 1891 A



MAESTRO S 10,5 $\leq \varnothing \leq 11,5 \text{ mm}$
MAESTRO L 12,5 $\leq \varnothing \leq 13 \text{ mm}$



WARNING / ATTENTION

Activities involving the use of this equipment are inherently dangerous. You are responsible for your own actions and decisions.

Before using this equipment, you must:
- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.



FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.

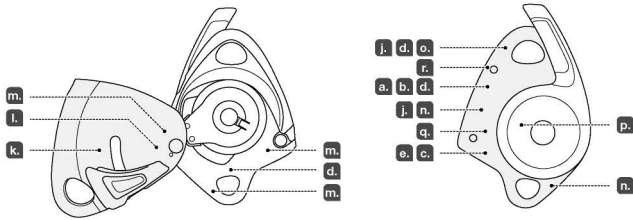
Les activités impliquant l'utilisation de cet équipement sont par nature dangereuses. Vous êtes responsable de vos actes, de vos décisions et de votre sécurité.

Avant d'utiliser cet équipement, vous devez :
- Lire et comprendre toutes les instructions d'utilisation.
- Vous former spécifiquement à l'utilisation de cet équipement.
- Vous familiariser avec votre équipement, apprendre à connaître ses performances et ses limites.
- Comprendre et accepter les risques induits.



LE NON-RESPECT D'UN SEUL DE CES AVERTISSEMENTS PEUT ÊTRE LA CAUSE DE BLESSURES GRAVES OU MORTELLES.

Traceability and markings / Traçabilité et marquage



a. TÜV SÜD
Product Service GmbH
TECH SPORT
Ridlestr. 65, D-80339 München
N°0123

b. CE 0082
APAVE SUEUROPE SAS
8 rue Jean-Jacques Vernazza
Z.A.C. Saumaty-Séon - CS 60193
13322 Marseille CEDEX 16 France
N°0082

e. Individual number / Numéro individuel
YY M 0000000 000
f. g. h. i.

NFPA CERTIFICATION

MEETS THE DESCENT CONTROL, PULLEY AND BELAY DEVICE REQUIREMENTS OF NFPA 1983, INCORPORATED IN THE 2022 EDITION OF NFPA 2500.

NFPA CERTIFICATION

RÉPOND AUX EXIGENCES NFPA 1983, DE L'ÉDITION 2022 DE LA NFPA 2500 POUR LES APPAREILS D'ASSURAGE, POULIES ET DE CONTRÔLE DE DESCENTE.



MAESTRO S D024A
DESCENT CONTROL DEVICE
BELAY DEVICE
PULLEY
MBS 22 kN
T (TECHNICAL USE)
MEETS NFPA 2500 (1983) - 2022

USE ONLY TECHNICAL USE LIFE SAFETY ROPES, (CORE + SHEATH) DIAMETER BETWEEN 10.5 MM AND 11.5 MM.

This descent control and belay device has passed the manner of function and holding load tests using the following rope: [STERLING, 3/8" HTP static, P105, 10mm] and [Bluewater, 7/16" Spec-Static rope, 540700, 11,5mm]

UTILISEZ UNIQUEMENT DES TECHNICAL USE LIFE SAFETY ROPES, (GAINE + ÂME) DONT LE DIAMÈTRE EST COMPRIS ENTRE 10.5 MM AND 11.5 MM.

Cet appareil d'assurage et de contrôle de descente a passé les tests de fonctionnement avec les cordes suivantes : [STERLING, 3/8" HTP static, P105, 10mm] et [Bluewater, 7/16" Spec-Static rope, 540700, 11,5mm]



MAESTRO L D024B
DESCENT CONTROL DEVICE
BELAY DEVICE
PULLEY
MBS 36 kN
G (GENERAL USE)
MEETS NFPA 2500 (1983) - 2022

USE ONLY TECHNICAL USE LIFE SAFETY ROPES, (CORE + SHEATH) DIAMETER BETWEEN 12.5 MM AND 13 MM.

This descent control and belay device has passed the manner of function and holding load tests using the following rope: [PETZL VECTOR 12.5mm] and [Teufelberger, 1/2" KM3 en, 13mm]

UTILISEZ UNIQUEMENT DES TECHNICAL USE LIFE SAFETY ROPES, (GAINE + ÂME) DONT LE DIAMÈTRE EST COMPRIS ENTRE 12.5 MM AND 13 MM.

Cet appareil d'assurage et de contrôle de descente a passé les tests de fonctionnement avec les cordes suivantes : [PETZL VECTOR 12,5mm] et [Teufelberger, 1/2" KM3 en, 13mm]

After removing the Instructions for Use from the equipment, make a copy of it and keep the original as part of a permanent record that includes the usage and inspection history for the equipment. Keep the copy of the Instructions for Use with the equipment and refer to it before and after each use. Additional information regarding auxiliary equipment can be found in NFPA 1500 and NFPA 1858 and NFPA 1983, incorporated in the 2022 edition of NFPA 2500.

Après avoir détaché la notice du produit, faites en une copie et gardez l'original dans un dossier qui compile l'historique de vie du produit et les vérifications EPI réalisées. Gardez une copie de la notice avec le produit et consultez-la avant et après chaque utilisation. Des informations complémentaires sont disponibles dans la NFPA 1500, NFPA 1858 et NFPA 1983, incorporées dans l'édition 2022 de la norme NFPA 2500.

PETZL.COM



Latest version
Dernière version



Other languages
Autres langues



Technical tips
Conseils techniques



PPE checking
Fiche de contrôle EPI

Warning symbols
Panneaux d'alertes



UK CA

This product is compliant with the Regulation 2016/425 on Personal Protective Equipment as amended to apply in Great Britain.

The UK declaration of conformity is available at Petzl.com

Ce produit est conforme au règlement 2016/425 sur les équipements de protection individuelle tel que modifié pour s'appliquer en Grande-Bretagne.

La déclaration de conformité UK est disponible sur Petzl.com

Authorized Representative in UK : PETZL UK Agency, Unit 3-7, Tebay Business Park, Old Tebay, Penrith, CA10 3SS, United Kingdom

PETZL
FR-38920 Crolles
Cidex 105A
PETZL.COM

Made in France

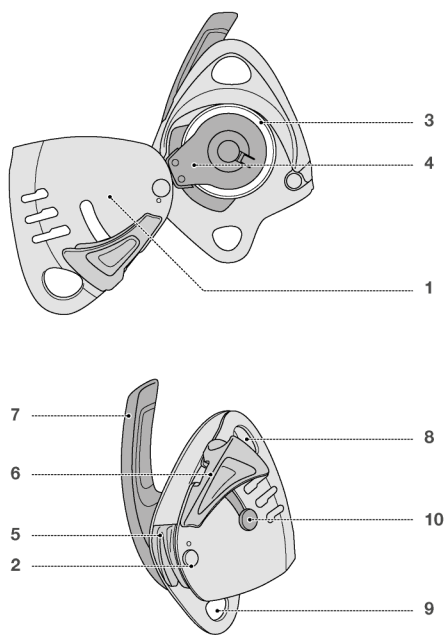
ISO 9001 © Petzl



Sustaining our Community
Au service de la Communauté
FONDATION-PETZL.ORG

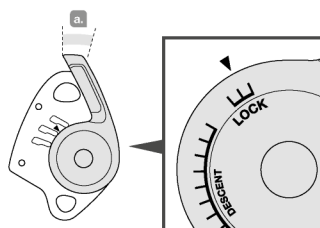
1. Field of application (text part)
Champ d'application (partie texte)

2. Nomenclature
Nomenclature

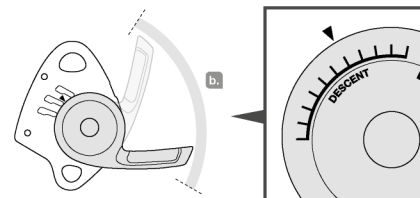


Handle positions
Positions de la poignée

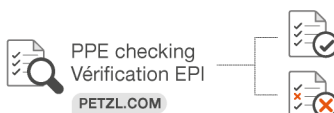
a. Stop position
Position d'arrêt



b. Descent
Descente

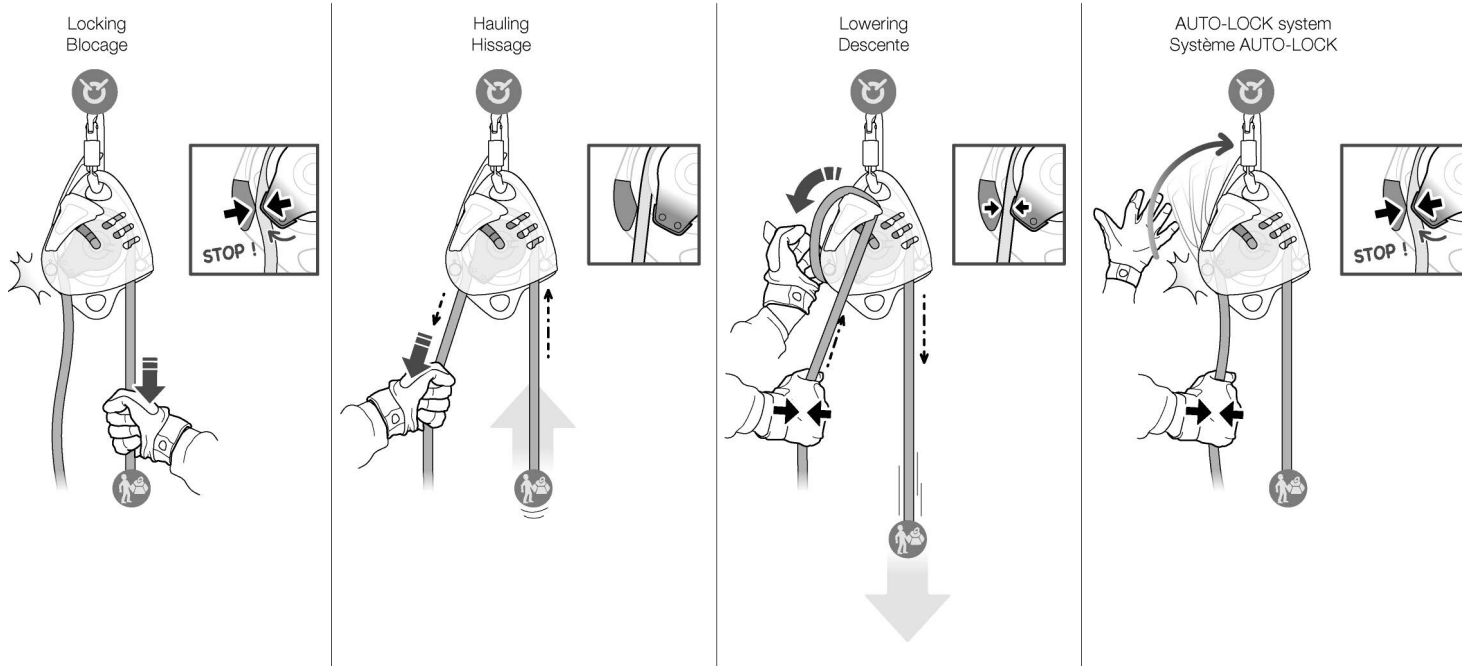


3. Inspection, points to verify
Contrôle, points à vérifier

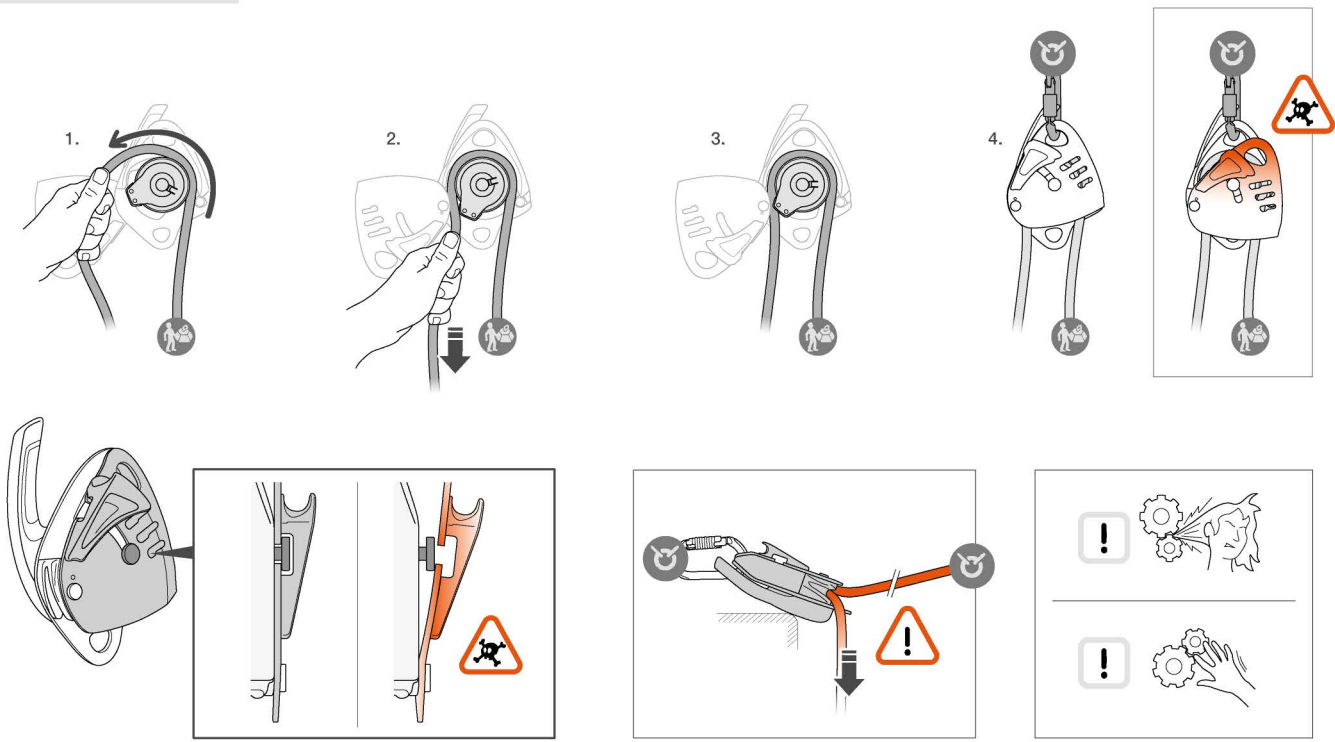


4. Compatibility (text part)
Compatibilité (partie texte)

5. Function principle and test
Principe et test de fonctionnement



6. Installing the device
Installation

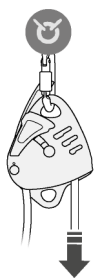


7. Performance
Performance

Working load limit
Valeur d'utilisation maxi

MAESTRO S

∅
10,5 - 11,5 mm



250 kg

MAESTRO L

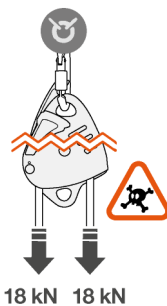
∅
12,5 - 13 mm



280 kg

Breaking load
Charge de rupture

MAESTRO S



18 kN 18 kN



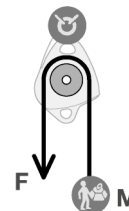
11 kN

MAESTRO L



22 kN

Hauling efficiency
Efficacité en hissage



MAESTRO S : F = 1,16 M

MAESTRO L : F = 1,24 M

8a. Descent / Descente

MAESTRO S

Weight / Poids

30 kg <  < 250 kg

Rope / Corde

∅  ∅
10,5mm < < 11,5 mm

MAESTRO L

Weight / Poids

30 kg <  < 280 kg

Rope / Corde

∅  ∅
12,5 mm < < 13 mm

Speed / Vitesse



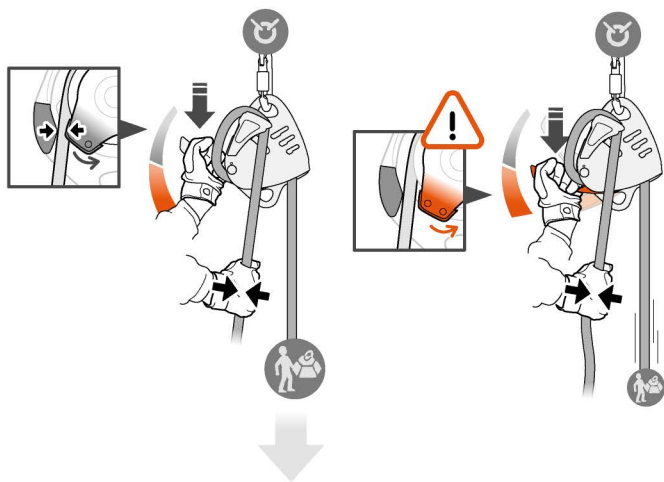
30 - 150 kg = 2m/s. MAX
>150 kg = 0,5m/s. MAX

Height / Hauteur

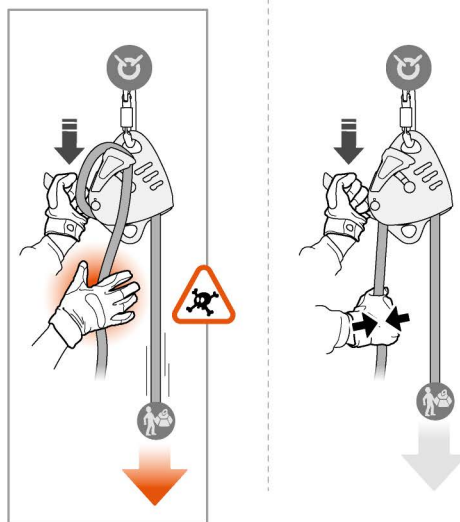


200 m MAX

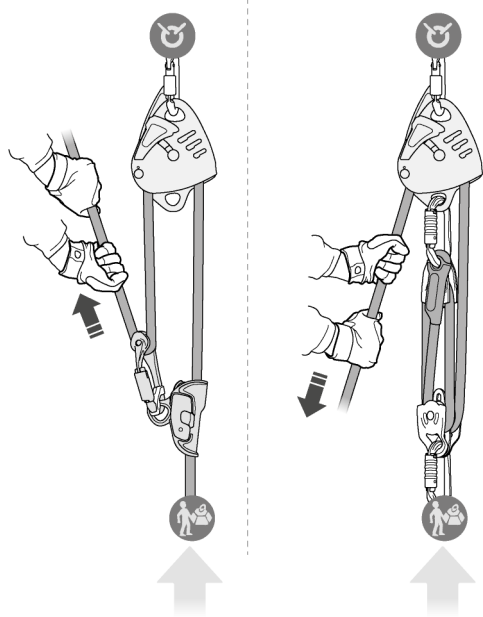
1. Normal braking
Freinage normal



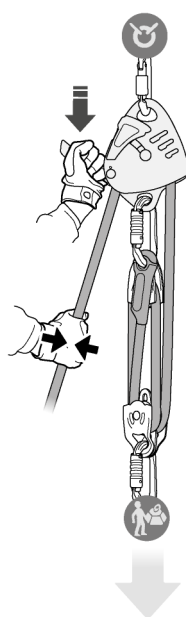
2. Minimum braking
Freinage minimum



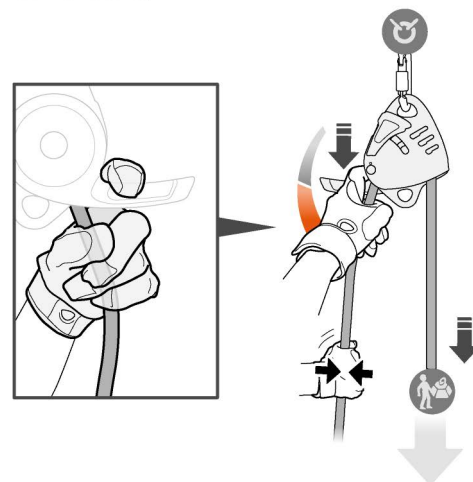
8b. Hauling
Hissage



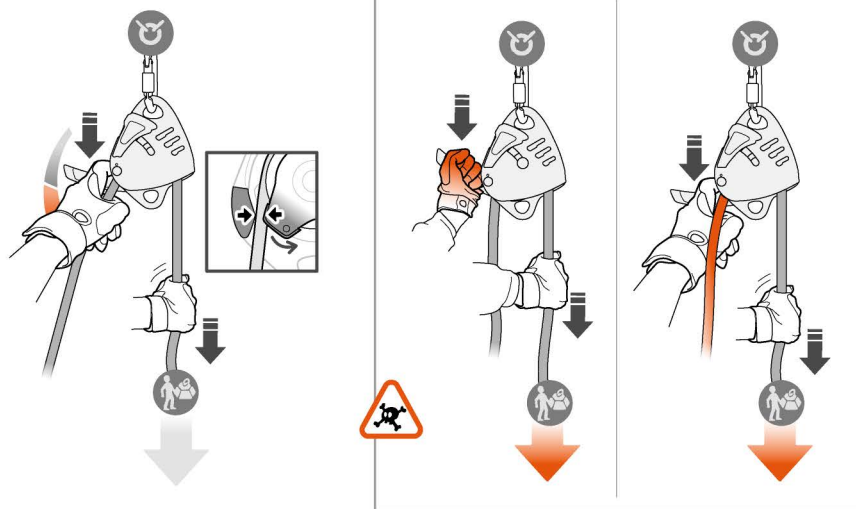
Descending in haul mode
Descente en cours de hissage



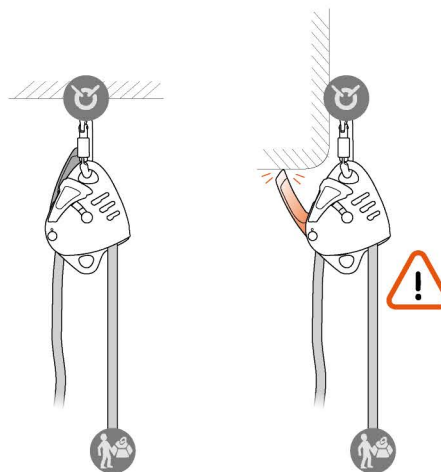
8c. Belaying
Contre-assurance



Paying slack / Donner du mou



8d. Stop position
Position d'arrêt



EN 341 CLASS A

Maximum descent energy 7,5 MJ
Energie de descente maximum 7,5 MJ

Rope
Corde



Working load
limit (EN341)
Charge d'utilisation
maxi (EN341)

Maximum
descent
Descente
maximum

MAESTRO S
D024A

Petzl PARALLEL 10,5 mm	150 kg	200 m
Petzl DURALINE 10,5 mm	180 kg	200 m
Petzl AXIS 11 mm	180 kg	200 m

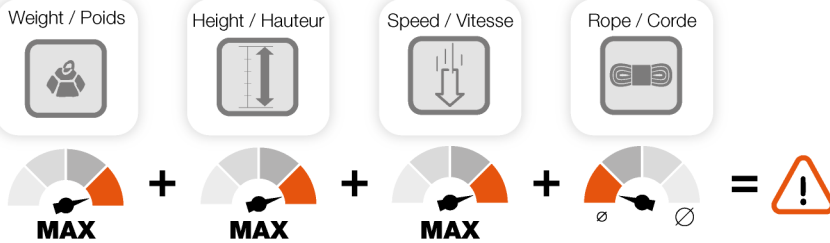
MAESTRO L
D024B

Petzl VECTOR 12,5 mm	220 kg	200 m
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Rope specifications
Performances
des cordes testées

	Petzl PARALLEL 10,5 mm	Petzl DURALINE 10,5 mm	Petzl AXIS 11 mm	Petzl VECTOR 12,5 mm
1. Sheath slippage (%) Glissement de la gaine (%)	1	0,8	1,3	0,8
2. Elongation (%) Allongement (%)	3,4	2,3	3	2,8
3. Mass of the sheath (%) Masse de la gaine extérieure (%)	45	40	41	46
4. Mass of the core material (%) Masse du matériau de l'âme (%)	55	60	59	54
5. Mass per unit length (g/m) Masse par unité de longueur (g/m)	75	75	82	111

9. Limitations on use
Limites d'utilisation



10. Additional information
Informations complémentaires

A. Lifetime / Durée de vie unlimited / illimitée	B. Acceptable T° / T° tolérées + 80°C / + 176°F - 30°C / - 22°F	C. Precautions for use / Précautions d'usage etc...
D. Cleaning / Nettoyage + 30°C maxi. + 86°F maxi.	E. Drying / Séchage + 30°C maxi. + 86°F maxi.	
F. Storage - Transport / Stockage - transport + 30°C / + 86°F + 10°C / + 50°F	G. Maintenance Entretien	
H. Modifications - Repairs Modifications - Réparations → Petzl	I. FAQ - Contact Questions - Contact → petzl.com	

These instructions explain how to correctly use your equipment. Only certain techniques and uses are described.

The warning symbols inform you of some potential dangers related to the use of your equipment, but it is impossible to describe them all. Check Petzl.com for updates and additional information.

You are responsible for heeding each warning and using your equipment correctly. Any misuse of this equipment will create additional dangers. Contact Petzl if you have any doubts or difficulty understanding these instructions.

1. Field of application

Personal protective equipment (PPE) used for fall protection from height.

Descender with integrated progress-capture pulley.

This product must not be pushed beyond its limits, nor be used for any purpose other than that for which it is designed.

Responsibility

WARNING

Activities involving the use of this equipment are inherently dangerous.

You are responsible for your own actions, decisions and safety.

Before using this equipment, you must:

- Read and understand all instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

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

This product must only be used by competent and responsible persons, or those placed under the direct and visual control of a competent and responsible person.

You are responsible for your actions, your decisions and your safety and you assume the consequences of same. If you are not able, or not in a position to assume this responsibility, or if you do not fully understand the Instructions for Use, do not use this equipment.

2. Nomenclature

(1) Moving side plate, (2) Axle, (3) Sheave, (4) Moving brake plate, (5) Fixed brake plate, (6) External brake, (7) Handle, (8) Anchor attachment hole, (9) Auxiliary attachment hole, (10) Rivet.

Handle positions:

- Stop position (load blocked, handle stowed to prevent accidental snagging).
 - Descent (the handle gradually releases the block).
- Depending on the MAESTRO model and the rope diameter used, the handle travel can vary before entering zone b.

Principal materials:

Aluminum alloy, stainless steel.

3. Inspection, points to verify

Your safety depends upon the integrity of your equipment.

Petzl recommends a detailed inspection by a competent person at least once every 12 months (depending on current regulations in your country, and your conditions of usage).

WARNING: your intensity of use may cause you to inspect your PPE more frequently. Follow the procedures described at Petzl.com. Record the results on your PPE inspection form: type, model, manufacturer contact info, serial number or individual number, dates: manufacture, purchase, first use, next periodic inspection; problems, comments, inspector's name and signature.

Before each use

Verify the absence of any cracks, deformation, marks, wear, corrosion on the product (side plates, sheave, moving brake plate, fixed brake plate, attachment holes, axles, brake). Check the condition of the sheave and verify that it operates properly (rotates in one direction, locks in the other direction). Check the condition of the sheave: you must hear 36 clicks during one complete rotation. Check the condition of the handle and verify that it works properly (moving brake plate drive, return spring). Check the mobility of the moving brake plate.

During use

It is important to regularly monitor the condition of the product and its connections to the other equipment in the system. Make sure that all items of equipment are correctly positioned with respect to each other.

WARNING: blocking effectiveness can vary depending on the condition of the rope (wear, dirt, moisture, ice...).

Keep the rope between the MAESTRO and the load as taut as possible to reduce the risk of a fall or pendulum.

Make sure that the tensioned rope is well-aligned with the device, in the same plane as the sheave. **WARNING:** when hauling, pulling the free end off-axis can disturb the alignment between the rope and the device.

A risk analysis of your specific work situation may lead you to set up a back-up belay system (e.g. EN 12841 type A or second MAESTRO).

4. Compatibility

Verify that this product is compatible with the other elements of the system in your application (compatible = good functional interaction). Equipment used with your MAESTRO must meet current standards in your country (e.g. EN 1496 or EN 813 harnesses).

5. Function principle and test

MAESTRO allows the rope to travel in one direction, and blocks in the other direction.

The rope blocks by being pinched between the moving brake plate and the fixed brake plate.

The rope can travel in the direction of hauling, even when the moving brake plate is in the blocking position.

Blocking can be gradually released by operating the handle (always hold the brake side of the rope).

AUTO-LOCK system

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

6. MAESTRO setup

Open the moving side plate. Push the moving brake plate with the rope to place the rope around the sheave, in the direction indicated by the icons marked on the device. Close the moving side plate and connect the device to the anchor with a locking carabiner.

Each time the rope is installed, check that the rope blocks in the desired direction.

The MAESTRO must be able to move freely so that it can align naturally with the loaded rope.

7. Specifications

Working load limit:
MAESTRO S: 250 kg.
MAESTRO L: 280 kg.

Breaking strength: 36 kN.

Breaking strength on the auxiliary attachment hole:

MAESTRO S: 11 kN.

MAESTRO L: 22 kN.

Hauling efficiency:

MAESTRO S: F = 1.16 M.

MAESTRO L: F = 1.24 M.

Efficiency:

MAESTRO S: 86 %.

MAESTRO L: 81 %.

Efficiency is measured with a rope of the minimum diameter compatible with the device.

8. Uses

8a. Descent: to control the descent, always hold the brake side of the rope, gradually operate the handle to allow the rope to travel.

If the handle is pulled too far, the moving brake plate will no longer brake the rope.

WARNING: any excessive pulling on the handle can cause a loss of control.

Normal friction: every descent must begin with the rope running over the external brake.

Direct the rope so that it always stays in place inside the brake. Beware of twists or loops of rope that could cause the rope to come out of the brake.

Minimum friction: during the descent, if there is too much friction, (swollen or dirty rope, light load...), the rope can be removed from the external brake.

8b. Hauling, lowering in haul mode: see diagrams.

8c. Belaying, giving slack: manipulate the handle with a single finger; always hold the brake side of the rope.

8d. Stop position: before letting go of the rope, make sure the handle is properly stowed.

Beware of any rubbing against the structure or equipment that could prevent the return of the handle. If the handle is not in the stop position, it is exposed to accidental snagging that can cause unblocking.

9. Limitations on use

These Instructions for Use specify essential parameters to follow when using the descender:

mass, length, speed, compatible ropes...

Other factors can come into play, such as the condition of the rope (new ropes are often slippery), or the temperature of use (high heat reduces braking effectiveness).

The descender functions optimally under average use conditions. It reaches its performance limits when all of these parameters approach the maximum. Under these extreme use conditions, there is a risk of losing control of the descent and/or damaging the rope.

You must be more alert and not hesitate to take special precautions (add friction, reduce speed, split the descent into shorter sections using intermediate anchors...).

Limitations on use in the cold:

Exceptionally cold and wet conditions (rain, water spray, condensation...) can degrade the performance of your rope/descender combination.

10. Additional Information

This product meets the requirements of Regulation (EU) 2016/425 on personal protective equipment. The EU declaration of conformity is available at Petzl.com.

- The MAESTRO is not suitable for use in a fall-arrest system.
- Any dynamic overload can damage the rope.
- You must have a rescue plan and the means to rapidly implement it in case of difficulties encountered while using this equipment.
- The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (12 kN minimum strength).
- In a fall-arrest system, it is essential to check the required clearance below the user before each use, in order to avoid hitting the ground or an obstacle in case of a fall.
- Make sure that the anchor point is correctly positioned, in order to limit the risk and the length of a fall.
- A fall-arrest harness is the only device allowable for supporting the body in a fall-arrest system.
- When using multiple items of equipment, a dangerous situation can arise in which the safety function of an item of equipment can be affected by the safety function of another item of equipment.
- **WARNING - DANGER:** ensure that your products do not rub against abrasive or sharp surfaces.
- Do not expose the rope to flames or high temperatures.
- Users must be medically fit for activities at height. **WARNING:** inert suspension in a harness can result in serious injury or death.
- The Instructions for Use for each item of equipment used in conjunction with this product must be followed.
- The Instructions for Use must be provided to the user of this equipment, in the language of the country where the equipment is used.
- Make sure the markings on the product are legible.

EN 12841: 2006 type C

Ropes tested during the EU EN 12841 type C certification:

MAESTRO S

- Petzl PARALLEL 10.5 mm.

- Teufelberger KMIII 11.5 mm.

MAESTRO L

- Petzl VECTOR 12.5 mm.

- Teufelberger KMIII 13 mm.

EN 341: 2011 class A

- Maximum energy of descent 7.5 MJ.

Energy = user weight x gravity x length of descent x number of descents.

- Ropes tested, working load limit, maximum descent: see diagrams.

- Minimum load: 30 kg

- Protect the MAESTRO from surrounding environmental conditions if it is left installed on the anchor between inspections.

- Install the MAESTRO on the anchor in a way that does not interfere with the descent.

- Control the speed of descent; a loss of control can be difficult to correct.

- The MAESTRO can overheat and damage the rope in a descent that is too long or too fast.

- In the context of the EN 341 standard, the MAESTRO is designed for rescue use only.

- Specifications of ropes tested:

Nylon and polyester ropes.

1. Sheath slippage (%)

2. Elongation (%)

3. Mass of the sheath (%)

4. Mass of the core material (%)

5. Mass per unit length (g/m)

6. Shrinkage (%)

When to retire your equipment:

WARNING: an exceptional event can lead you to retire a product after only one use, depending on the type and intensity of usage and the environment of usage (harsh environments, marine environments, sharp edges, extreme temperatures, chemicals...).

A product must be retired when:

- It has been subjected to a major fall or load

- It fails to pass inspection. You have any doubt as to its reliability.

- You do not know its full usage history.

- When it becomes obsolete due to changes in legislation, standards, technique or incompatibility with other equipment...

Destroy these products to prevent further use.

Icons:

A. Unlimited lifetime - B. Marking - C. Acceptable temperatures - D. Usage precautions - E. Cleaning - F. Drying - G. Storage/transport - H. Maintenance - I. Modifications/repairs (prohibited outside of Petzl facilities, except replacement parts) - **J. Questions/contact**

ANSI / ASSP Z359.9-2021

Maximum descent height: 200 m.

The MAESTRO can be used for multiple successive descents by ensuring that the device does not overheat.

The anchor point for the descent system should preferably be located above the user's position and should meet the requirements of applicable standards and regulations.

Connections to anchors must be done in a way that does not reduce the anchor strength, and that avoids any accidental movement of the system during use. Perform a tension test on the connection before applying the full load.

3-year guarantee

Against any material or manufacturing defect. Exclusions: normal wear and tear, oxidation, modifications or alterations, incorrect storage, poor maintenance, negligence, uses for which this product is not designed.

Warning symbols

1. Situation presenting an imminent risk of serious injury or death. 2. Exposure to a potential risk of accident or injury. 3. Important information on the functioning or performance of your product. 4. Equipment incompatibility.

Traceability and markings

a. Meets PPE regulatory requirements. Notified body performing the EU type examination

- b. Number of the notified body responsible for the production control of this PPE - c.

Traceability: datamatrix - d. Rope diameter and working load limit - e. Serial number - f. Year of manufacture - g. Month of manufacture - h. Batch number - i. Individual identifier - j. Standards

- k. Read the Instructions for Use carefully - l. Model identification - m. Blocking direction - n. Breaking load - o. Maximum descent and temperature of use - p. Handle positions - q. NFPA certification body - r. Manufacturer address

