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> Petzl Sm'D SCREW-LOCK Carabiner User Manual

## PETZL Sm'D SCREW-LOCK (3-Pack)

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Model: Sm'D SCREW-LOCK (3-Pack)

#### PRODUCT OVERVIEW

The Petzl Sm'D is a D-shaped locking carabiner designed for versatility and reliability in various climbing situations. It is lightweight, compact, and engineered for easy manipulation, even when wearing gloves. This manual specifically covers the SCREW-LOCK version, which features a visual warning system for an unlocked gate and is robust enough for use in harsh environments where automatic locking systems might be prone to jamming.



Image: A pack of three orange Petzl Sm'D SCREW-LOCK carabiners, showcasing their D-shape and screw-lock mechanism.

#### KEY FEATURES

## ERGONOMIC

H-shaped cross-section contributes to better grip when wearing gloves. Keylock system, to avoid any involuntary snagging of the carabiner. Keeper hole allows a TIBLOC or a MICRO TRAXION to be connected to the carabiner with a cord, helping prevent accidental gear dropping.

## LIGHTWEIGHT PERFORMANCE

D-shape is functional regardless of orientation, meeting multiple uses: attachment of a belay system, a pulley, or on the end of a lanyard. Light enough for mountains, durable enough for the crag.

## SCREW-LOCK

Easy-to-open system. Suitable for harsh environments where dirt, mud, or ice could cause an automatic locking system to jam. Red band provides a visual warning when the screwgate carabiner is unlocked.

## KEYLOCK SYSTEM

Avoids any involuntary snagging of the carabiner.

## KEEPER HOLE

Allows a TIBLOC or a MICRO TRAXION to be connected to the carabiner with a cord, helping prevent accidental gear dropping.



Image: A detailed diagram highlighting the ergonomic H-shaped cross-section, Keylock system, SCREW-LOCK mechanism, and Keeper Hole of the Petzl Sm'D carabiner.

- **Lightweight Performance:** The D-shape design is functional in any orientation, suitable for various applications such as attaching a belay system, a pulley, or connecting to a lanyard. It offers a balance of lightness for mountain use and durability for crag climbing.
- **Ergonomic Design:** Features an H-shaped cross-section for improved grip, especially when wearing gloves. The Keylock system prevents snagging. A dedicated keeper hole allows for connecting accessories like a TIBLOC or MICRO TRAXION with a cord, reducing the risk of accidental drops.
- **SCREW-LOCK System:** An easy-to-open locking mechanism ideal for environments where dirt, mud, or ice might interfere with automatic locking systems. A visible red band indicates when the carabiner gate is unlocked, providing a clear safety warning.
- **Keylock System:** Designed to prevent the carabiner from snagging on ropes, slings, or other gear during operation.
- **Keeper Hole:** A small hole designed to attach a cord, allowing for secure connection of devices like a TIBLOC or MICRO TRAXION to the carabiner, minimizing the chance of dropping equipment.

## SETUP AND INSPECTION

Before each use, a thorough inspection of the carabiner is crucial to ensure safety and proper function. Always refer to the detailed instructions provided by Petzl for complete setup and inspection guidelines.

## Pre-Use Inspection:

- **Visual Check:** Inspect the carabiner body for cracks, deformation, sharp edges, or excessive wear.
- **Gate Function:** Ensure the gate opens smoothly and closes completely and automatically when released.
- **Locking Mechanism:** For SCREW-LOCK, verify that the screw sleeve rotates freely and fully engages the gate. Confirm the red warning band is visible when unlocked and hidden when locked.
- **Rivet and Pin:** Check that the gate rivet and any other pins are secure and not damaged.
- **Corrosion:** Look for any signs of corrosion, especially in the gate mechanism.

## Initial Setup:

The Sm'D carabiner is designed for immediate use after inspection. No complex assembly is required. Simply ensure it is clean and free of debris before integrating it into your climbing system.



Image: A single Petzl Sm'D SCREW-LOCK carabiner, ready for inspection and use.

## OPERATING INSTRUCTIONS

The Petzl Sm'D SCREW-LOCK carabiner is designed for secure and efficient operation in various climbing and rigging applications. Always ensure the carabiner is correctly oriented and fully locked before applying load.

## Using the SCREW-LOCK Mechanism:

1. **To Open:** Rotate the screw sleeve counter-clockwise until it is fully disengaged from the gate. The red warning band will be visible. Push the gate open.
2. **To Close and Lock:** Allow the gate to close automatically. Rotate the screw sleeve clockwise until it is fully tightened against the gate. The red warning band should no longer be visible, indicating a secure lock.
3. **Verification:** Always visually and physically check that the screw sleeve is fully tightened and the gate is locked before use.

## Typical Applications:

- **Belay Systems:** Can be used to connect a belay device to a harness. Ensure proper orientation to avoid cross-loading.
- **Anchor Systems:** Suitable for building and connecting to anchors.
- **Connecting Devices:** Ideal for connecting pulleys, ascenders (like TIBLOC), or progress capture devices (like MICRO TRAXION) to ropes or other equipment.
- **Lanyard Attachment:** Securely attach lanyards for positioning or fall arrest.



Image: The Petzl Sm'D carabiner shown connected to a TIBLOC ascender on a climbing rope, demonstrating its use with other climbing equipment.



Image: The Petzl Sm'D carabiner shown connected to a MICRO TRAXION progress capture pulley on a climbing rope, illustrating its versatility.

## MAINTENANCE AND STORAGE

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Proper maintenance and storage extend the lifespan of your Petzl Sm'D carabiner and ensure its continued reliability.

### Cleaning:

- Clean with fresh water and mild soap.
- Rinse thoroughly to remove all soap residue.
- Dry completely in a well-ventilated area, away from direct heat or sunlight.
- For the gate mechanism, a small amount of silicone-based lubricant can be applied if movement becomes stiff. Avoid oil-based lubricants.

### Storage:

- Store in a cool, dry, dark place.
- Keep away from chemicals, corrosive substances, and extreme temperatures.

- Avoid storing under pressure or in a way that could deform the carabiner.

## Retirement:

A carabiner must be retired immediately if:

- It has sustained a significant fall or impact.
- It shows signs of significant wear, deformation, cracks, or corrosion.
- The gate or locking mechanism does not function correctly.
- Its history of use is unknown.
- It is more than 10 years old from the date of manufacture (even if unused).

## TROUBLESHOOTING

Most issues with carabiners relate to wear, dirt, or improper handling. Here are common issues and their solutions:

Problem	Possible Cause	Solution
Gate sticks or is stiff	Dirt, dust, or corrosion in the hinge mechanism.	Clean the carabiner thoroughly with water and mild soap. Dry completely. Apply a small amount of silicone-based lubricant to the hinge if needed.
Screw sleeve is difficult to turn	Accumulation of dirt, grit, or minor deformation.	Clean the threads of the screw sleeve and the gate thoroughly. Ensure no foreign objects are lodged. If deformation is present, retire the carabiner.
Red warning band visible when locked	Screw sleeve not fully tightened.	Ensure the screw sleeve is rotated fully clockwise until it is tight against the gate and the red band is no longer visible. If it cannot be fully tightened, inspect for damage and retire if necessary.
Carabiner shows signs of wear (grooves, sharp edges)	Abrasion from ropes or other equipment, or impact.	Minor cosmetic wear is normal, but significant grooves, sharp edges, or deformation indicate structural compromise. Retire the carabiner immediately.

If any issue persists or if you suspect the carabiner's integrity is compromised, discontinue use and retire the product. Consult a qualified professional or Petzl customer support for further assistance.

## SPECIFICATIONS

Attribute	Detail
Brand	PETZL
Model	Sm'D SCREW-LOCK (3-Pack)
Material	Aluminum
Color	Orange
Shape	D-Shape

Attribute	Detail
Lock Type	Screw Lock
Item Package Dimensions (L x W x H)	5.08 x 3.15 x 0.79 inches
Package Weight	0.45 Pounds
Suggested Users	Unisex
Date First Available	November 8, 2024

*Note: Breaking strength (KN ratings) are typically marked directly on the carabiner. Always refer to the markings on your specific product for critical load ratings.*

## WARRANTY AND SUPPORT

Information regarding the specific warranty period and detailed support contacts for the Petzl Sm'D SCREW-LOCK carabiner is not provided in this manual. For warranty claims, technical support, or further product information, please refer to the official Petzl website or contact Petzl customer service directly.

You can typically find contact information and detailed product resources on the [official Petzl website](#).

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Always follow local regulations and best practices for climbing and safety equipment use.

