

ProClimb 22kN Micro Rotator

ProClimb 22kN Micro Rotator Climbing Rope Swivel Device Spinner Instruction Manual

Model: 22kN Micro Rotator

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the ProClimb 22kN Micro Rotator Climbing Rope Swivel Device Spinner. This device is designed to prevent twisting and tangling of ropes and webbing under load, offering smooth rotation for various applications.

The ProClimb Micro Rotator is ultra-light, compact, and features a high breaking strength of 22kN (5,000 lbs Minimum Breaking Strength, MBS). It is suitable for professional and recreational uses including arborist work, rescue operations, rock climbing, and setting up swings or aerial dance equipment.



Image 1.1: Front view of the ProClimb 22kN Micro Rotator, showing its compact design and eyelets.

2. SAFETY INFORMATION

WARNING: Misuse of this device can result in serious injury or death. Read and understand all instructions before use. This device is part of a safety system and should only be used by competent individuals or under the direct supervision of a qualified person.

- This product is CE certified (CE 0321) and rated to 22kN (5000 lbs MBS). Always verify the markings on the device.
- Inspect the rotator for any signs of damage, wear, corrosion, or deformation before each use. Discard immediately if any damage is found.
- Ensure all connections to the rotator (e.g., carabiners, ropes, webbing) are properly secured and compatible with the device.
- Do not exceed the stated Minimum Breaking Strength (MBS) of 5000 lbs (22kN).
- Avoid exposing the device to extreme temperatures, corrosive substances, or sharp edges.
- Regularly check for smooth rotation. If the rotation becomes stiff or gritty, discontinue use and inspect for internal damage or debris.
- This device is designed for static and dynamic loads within its rated capacity. Do not modify the device in any way.



Image 2.1: Close-up view of the rotator displaying CE certification (CE 0321), EN354 standard, 22kN rating, and MBS 5000LBS markings.

3. PRODUCT COMPONENTS AND FEATURES

The ProClimb 22kN Micro Rotator consists of two eyelets connected by a central rotating mechanism. Key features include:

- **High Strength:** Rated to 22kN (5000 lbs MBS) for reliable performance.
- **Smooth Rotation:** Features a sealed ball bearing action for effortless, high-speed rotation, preventing rope twisting.
- **Compact and Lightweight:** Weighs approximately 91g (3.2 oz), making it easy to carry and integrate into systems.
- **Durable Construction:** Designed for longevity in demanding environments.
- **CE Certified:** Meets European safety standards (EN354).



Image 3.1: Angled view of the ProClimb Micro Rotator, highlighting its two connection points and central swivel.



Image 3.2: Side view of the ProClimb Micro Rotator, showing the thickness and profile of the device.

4. SETUP AND INSTALLATION

The ProClimb Micro Rotator is designed for straightforward integration into various rigging systems. Follow these general guidelines:

1. **Pre-Use Inspection:** Before each use, thoroughly inspect the rotator for any damage, cracks, sharp edges, or unusual wear. Ensure the swivel rotates freely and smoothly without grinding or resistance.
2. **Connection Points:** Attach your rope, webbing, or other connecting hardware (e.g., carabiners, quick links) to the eyelets of the rotator. Ensure that the connecting hardware is compatible with the eyelet dimensions and rated for the intended load.
3. **System Integration:** Integrate the rotator into your system where twisting or tangling is anticipated. Common applications include:
 - Between a harness and a belay device in certain climbing scenarios.
 - In arborist rigging systems to manage rope twists.
 - For aerial dance or swing setups to allow free rotation.
 - As a connector for dog leashes to prevent tangles.
4. **Load Direction:** Ensure the load is applied axially through the rotator. Avoid side-loading or bending forces on the eyelets, as this can compromise strength and function.

5. **Redundancy:** In critical applications, consider system redundancy as appropriate for the specific activity and risk assessment.

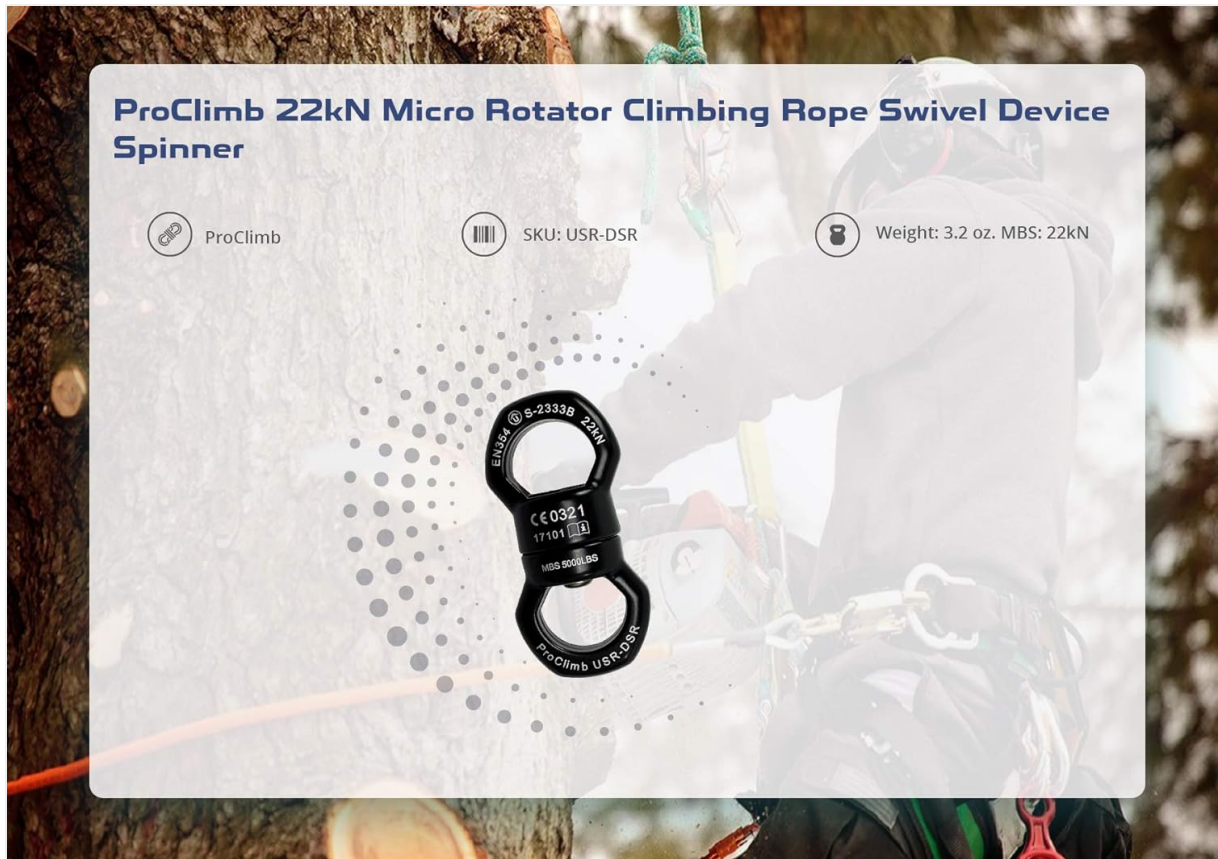


Image 4.1: Example of the ProClimb Micro Rotator integrated into a climbing or rigging system, demonstrating its application.

5. OPERATING INSTRUCTIONS

Once properly installed, the ProClimb Micro Rotator operates automatically to manage rotational forces within your system.

- The sealed ball bearing mechanism allows the two eyelets to rotate independently, preventing the accumulation of twists in ropes, webbing, or other connected elements.
- The rotator is designed to function smoothly even under significant load, maintaining its ability to spin freely.
- Periodically observe the rotator during use to ensure it is functioning as expected and that no unexpected forces or obstructions are impeding its rotation.

6. MAINTENANCE

Proper maintenance extends the lifespan and ensures the safety of your ProClimb Micro Rotator.

- **Cleaning:** Clean the device with mild soap and water. Rinse thoroughly with fresh water and allow it to air dry completely. Avoid harsh chemicals or solvents.
- **Inspection:** Regularly inspect the entire device for any signs of wear, cracks, deformation, corrosion, or damage to the eyelets or the central swivel mechanism. Pay close attention to the smooth operation of the swivel.
- **Lubrication:** The sealed ball bearings are designed to be maintenance-free. Do not attempt to disassemble or lubricate the internal mechanism, as this may compromise its integrity and performance.

- **Storage:** Store the rotator in a clean, dry place, away from direct sunlight, extreme temperatures, chemicals, and corrosive environments.
- **Service Life:** The service life of the device depends on the frequency and intensity of use, environmental conditions, and proper maintenance. If there is any doubt about the device's integrity, retire it immediately.

7. TROUBLESHOOTING

If you encounter issues with your ProClimb Micro Rotator, consider the following:

- **Rotator is Stiff or Gritty:**
 - Inspect for dirt, sand, or debris lodged in the swivel mechanism. Clean thoroughly as per maintenance instructions.
 - Check for physical damage or deformation to the eyelets or the central body that might be impeding rotation.
 - If the issue persists after cleaning and inspection, the internal bearings may be compromised. Retire the device.
- **Unusual Noises During Rotation:**
 - This may indicate internal damage to the bearings. Retire the device immediately.
- **Visible Damage (Cracks, Bends, Deep Scratches):**
 - Any visible damage compromises the structural integrity. Retire the device immediately.

For issues not covered here, or if you are unsure about the safety of the device, contact ProClimb customer support.

8. SPECIFICATIONS

Model	22kN Micro Rotator
Brand	ProClimb
Minimum Breaking Strength (MBS)	22kN (5000 lbs)
Weight	91 g (3.2 oz)
Certification	CE 0321, EN354
Material	High-strength alloy
Dimensions (Approximate)	3.5 x 2 x 1 inches (Package dimensions)

Note: The 6700lb breaking strength mentioned in some product descriptions refers to the ultimate breaking strength, while the device is stamped with MBS 5000LBS (22kN). Always adhere to the MBS for safety.

9. WARRANTY AND SUPPORT

Specific warranty details for the ProClimb 22kN Micro Rotator are not provided in the available product information. For warranty claims, technical support, or further inquiries, please contact ProClimb directly through their official website or the retailer from whom the product was purchased.

Manufacturer: US Rigging Supply

