

CARRYING, MAINTENANCE & STORAGE

During all use, carrying, storage and transport keep the equipment away from acids, alkalis, rust and strong chemicals. Do not expose the equipment to direct heat, flame or high temperatures.
Clean equipment using clean fresh water to remove any dust or debris. Do not use a pressure washer for cleaning. If the equipment gets wet, remove excess moisture and allow to air dry at temperatures between 10° C and 30° C. Lubricate moving parts as needed.

During storage and transport, protect the equipment from heat, direct sunlight, moisture, chemicals, and external loads or impacts. Do not store where the equipment may be exposed to moist air, particularly where dissimilar metals are stored together.

WARRANTY & REPAIRS

If your CMC product has a defect due to workmanship or materials, please contact CMC Customer Support at info@cmcpro.com for warranty information and service.


CMC's warranty does not cover damages caused by improper care, improper use, alterations and modifications, accidental damage or the natural breakdown of material over extended use and time. The equipment should not be modified in any way or altered to allow attachment of additional parts without the manufacturer's written recommendation. If original components are modified or removed from the product, its safety aspects may be restricted.

All repair work shall be performed by the manufacturer. All other work or modifications void the warranty and releases CMC from all liability and responsibility as the manufacturer.

SAMPLE INSPECTION AND MAINTENANCE LOG

The following sample log provides an example of the records that can be maintained by the purchaser or user.


EQUIPMENT INSPECTION AND MAINTENANCE LOG			
Item _____ # _____		Date in Service _____	
Brand/Model _____		Strength _____	
Date	How Used or Maintained	Comments	Name

 Find the latest version of this manual at cmcpro.com.



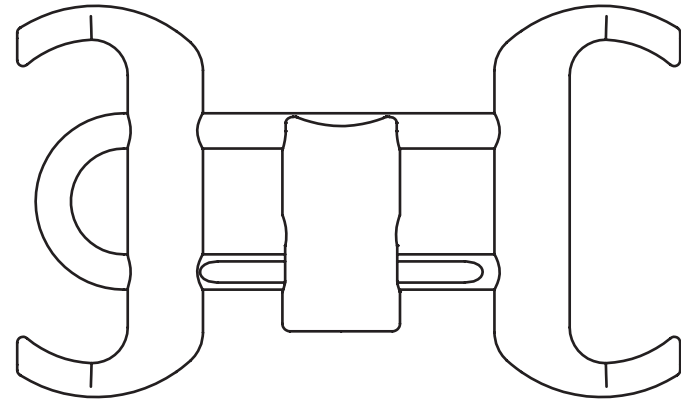
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ISO 9001 Certified

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CMC Control No.: 300880-01IN01_Rev00

CMC™

3D™



⚠ WARNINGS

Activities involving the use of this device are potentially dangerous. You are responsible for your own actions and decisions. Before using this device, you must:

- Read and understand these user instructions, labels, and warnings.
- Familiarize yourself with its capabilities and limitations.
- Obtain specific training in its proper use.
- Understand and accept the risks involved.

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



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

300880-01, CMC 3D

- RATED FOR TECHNICAL USE (T) Ø 9.5 MM - 13 MM
- RATED FOR GENERAL USE (G) Ø 11 MM - 13 MM

THIS DESCENT CONTROL DEVICE HAS PASSED THE MANNER OF FUNCTION AND HOLDING LOAD TESTS USING THE FOLLOWING ROPE:

- TEUFELBERGER FIBER ROPE CORP, KMIII, CMC PART# K05120, 9.5 MM
- TEUFELBERGER FIBER ROPE CORP, KMIII, CMC PART# K05140, 11 MM
- TEUFELBERGER FIBER ROPE CORP, KMIII, CMC PART# K05160, 13 MM

(KMIII USED FOR CERTIFICATION. FOR MORE INFORMATION ON DEVICE PERFORMANCE WITH OTHER LIFE SAFETY ROPES, PLEASE CONTACT CMC)

Legend



Imminent risk of serious injury or death.



Appropriate function or use.



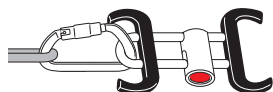
Imminent risk of accident or injury.



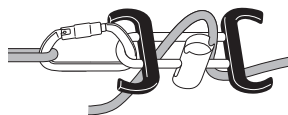
Equipment incompatibility.

Using the 3D

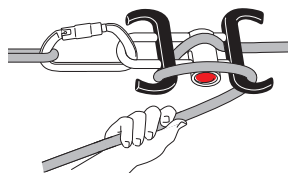
- 1 Push and hold red button to unlock.



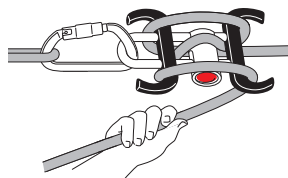
- 2 Push center bar toward button and rotate, then push bight of rope up between horns and rotate bar back into lock position.



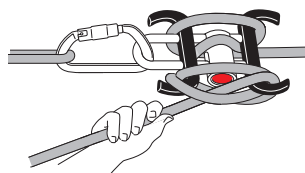
- 3 For rappel applications, or for lowering light to moderate loads, the rope should engage the top and bottom horns as shown



- 4 For maximum friction, engage the top and bottom horns on one side then cross it over to engage the top and bottom horns on the opposite side. We recommend this reave prior to tying off the descender.



- 5 To tie off, twist a half hitch around an upper horn as shown. For added security you may cross to the other side and add tie an additional half hitch.



WARNING: Ensure center bar locking button is fully extended to end of center bar prior to placing a load on the 3D. If the button is not fully extended the center bar is not locked!



USER INFORMATION

User Information shall be provided to the user of the product. NFPA Standard 1983, incorporated into the 2022 edition of NFPA 2500 recommends separating the User Information from the equipment and retaining the information in a permanent record. The standard also recommends making a copy of the User Information to keep with the equipment and that the information should be referred to before and after each use. Additional information regarding life safety equipment can be found in NFPA 1500 and NFPA 1858 and NFPA 1983, incorporated in the 2022 edition of NFPA 2500.

LIFESPAN / INSPECTION / RETIREMENT

CMC does not specify an expiration date for hardware because the service life depends greatly on how and where it is used. The type of use, intensity of use, and environment of use are all factors in determining serviceability of the equipment. A single exceptional event can be cause for retirement after only one use, such as exposure to sharp edges, extreme temperatures, chemicals, or harsh environments.

A device must be retired when:

- It fails to pass inspection.
- It fails to function properly.
- It has illegible product markings.
- It shows signs of damage or excessive wear.
- It has been subjected to shock loads, falls, or abnormal use.
- It has been exposed to harsh chemical reagents.
- It has an unknown usage history.
- You have any doubt as to its condition or reliability.
- When it becomes obsolete due to changes in legislation, standards, technique or incompatibility with other equipment.

Remove retired equipment from service and destroy it to prevent further use.

Inspect the equipment according to your department's policy for inspecting life safety equipment. CMC recommends a detailed inspection by a competent person at least once every 12 months depending on current regulations and conditions of use. Record the date, inspector name, and inspection results in the equipment log as well as any other relevant information to track the usage history.

Before each use, the user should:

- Confirm the device is functioning properly.
- Verify the presence and legibility of the product markings.
- Verify there is no excessive wear or indications of damage such as deformation, corrosion, sharp edges, cracks, or burrs. Minor nicks or sharp spots may be smoothed with emery cloth or similar.
- Check for the presence of dirt or foreign objects that can affect or prevent normal operation such as grit, sand, rocks, and debris.

During each use, the user should:

- Confirm all pieces of equipment in the system are correctly positioned with respect to each other.
- Monitor the condition of the device and its connections to other equipment in the system.
- Do not allow anything to interfere with the operation of the device or its components.
- Keep foreign objects out of the device.

LIMITATIONS AND PROPER USE

The 3D features two sliding bars for optimum friction control and efficiency. The horn design works well with 13 mm rope and smaller, making it easy to add or subtract friction as needed throughout the evolution. The frame dimensions allow for larger rescue-sized carabiners to be used without any contact or friction with the rope. The descender can be loaded or unloaded while connected to your harness for rappelling or to an anchor for one- or two-person rescue lowers.

The 3D Descender allows the user to control a wide range of loads by varying the path of the rope through the device as well as increasing and decreasing the space between the bars to control friction. It is important that before commencing a lowering operation, all bars and horns be engaged and the descender be securely tied off. After loading the system, slowly untie the descender and begin with the maximum friction obtained by having the rope running over at least two of the horns. See opposite page for rigging diagrams.

When rigging the descender, always make sure that the center bar is securely engaged to the frame and the locking button is fully extended to the end of the center bar. The center bar should not disengage from the frame without depressing the locking button. See below for additional product-specific guidance.

- Friction will vary depending on rope size, type, and condition. Test with your rope in a safe manner to determine compatibility and the particular wrap(s) you will use. Remember that rope weight adds friction and will become less as you get closer to the end of the rope.
- Have a rescue plan in place to deal with any emergencies that could arise during use of the device.
- When using Prusik as a backup, make sure it will catch on the rope and prevent a fall. Do not inadvertently pull down the Prusik.
- Must be free to align with the load, any restraint is dangerous. Do not allow any bending force on the 3D or it may break or break the connectors. Keep equipment properly positioned to avoid inward forces on gates.
- Monitor for wear. Dirty ropes can be very abrasive and quickly wear out a friction device.
- Use a stopper knot on the free end of the rope to prevent it from pulling through.
- Do not lose control of the lower or rappel. Always grip and maintain control of the free end of the rope.
- Be aware that descent control devices can get hot on long lowers and rappels.