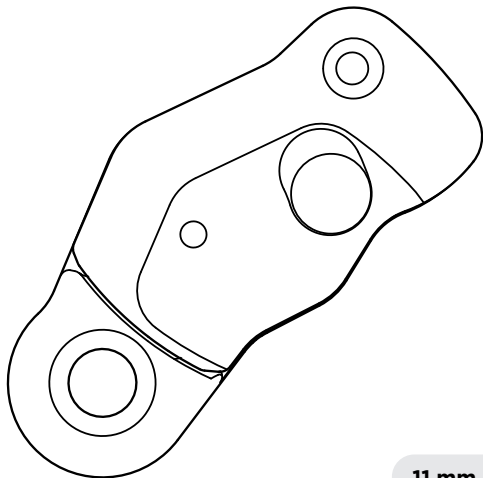


CMC™

CAPTO™

MULTIFUNCTIONAL ROPE GRAB WITH PULLEY

USA
MADE



Patented

11 mm (7/16 in)



GENERAL USE (G)
NFPA 2500 (1983), 2022 ED.

CE
0598

EN 12841:2006/B
EN 567:2013
EN 12278:2007
EN 365:2004
Regulation (EU) 2016/425

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



NFPA CERTIFICATION INFORMATION

MEETS THE PULLEY AND ROPE GRAB REQUIREMENTS OF NFPA 1983, INCORPORATED IN THE 2022 EDITION OF NFPA 2500.

336011 CAPTO, 11 MM

- GENERAL USE (G) MBS 36 KN (8,093 LBF) PULLEY
- GENERAL USE (G), ROPE GRAB, Ø 10.5 - 11 MM

THIS ROPE GRAB DEVICE HAS PASSED THE MANNER OF FUNCTION TEST USING THE FOLLOWING ROPES:

- CMC RESCUE, INC., CMC G11™, PART# 28313X, 11 MM
- TEUFELBERGER FIBER ROPE CORP, KMIII, PART# C330X-05-00600, 10.5 MM

NFPA CERTIFICATION AS A PULLEY ONLY APPLIES WHEN USING THE BECKET AS THE PULLEY ATTACHMENT POINT.

FOR INFORMATION ON DEVICE PERFORMANCE WHEN USING OTHER LIFE SAFETY ROPES, PLEASE CONTACT CMC OR REFER TO CAPTO TECHNICAL SECTION AT CMCPRO.COM

⚠ WARNINGS

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 the 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.

Legend



Imminent risk of serious injury or death.



Anchor



Imminent risk of accident or injury.



Attachment Point



Appropriate function or use.



Load



Equipment incompatibility.



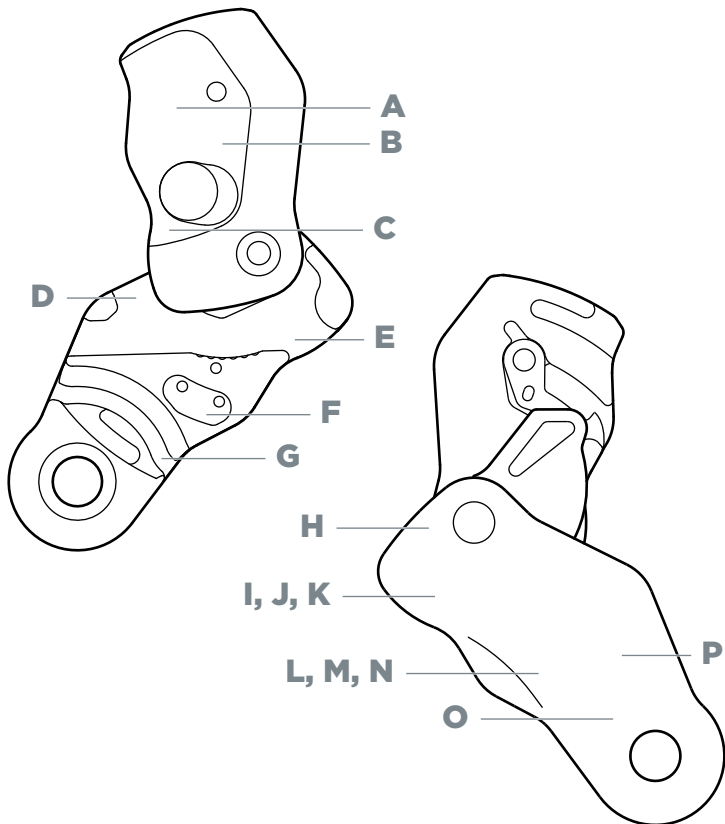
Grip

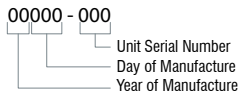
CONTENTS

1 	TRACEABILITY & MARKINGS	6
2 	FIELD OF APPLICATION	8
3 	NOMENCLATURE	8
	STANDARDS & CERTIFICATIONS	8
4 	INSPECTION, POINTS TO VERIFY	10
	CLEANING	10
5 	COMPATIBILITY	12
	CONNECTORS	12
6 	PRODUCT USE	13
	OPENING & CLOSING THE SIDEPLATE	13
	USE IN HAULING	16
	3:1 MECHANICAL ADVANTAGE SYSTEM	18
	5:1 MECHANICAL ADVANTAGE SYSTEM	18
	RE-SETTING THE SYSTEM	18
	USE IN ASCENDING	19
	USE IN A RAD SYSTEM	22
	USE AS A PULLEY	23
	ACCESSORY LOOP ATTACHMENT	24
7 	EQUIPMENT RECORDS	25
	EQUIPMENT RECORD TABLE	25
	PERIODIC INSPECTION CHECKLIST	26
8 	ADDITIONAL INFORMATION	27

1

TRACEABILITY & MARKINGS



A Product Name**XXCMC[™]**
CAPTO**B** Rope Path Diagram**C** Double Action Opening**D** Incorrect Rope Path**E** Rope Diameter & Anchor/Load Side:**F** Special Notice or Caution:**G** Pulley Loading/Running Direction:**H** USA Made:**I** Mark and Information of NFPA certification body:**J** Standard Markings:NFPA 2500 (1983), 2022 ED.
Rope Grab "G" Ø 10.5 - 11 mm
Pulley "G" MBS 36 kN
EN12841:2006/B Ⓞ Ø 10.5 - 11 mm - 200 kg
EN567:2013 Ø 10 - 11 mm
EN 12278:2007 Ø 13 mm MAX**K** Notified Body Controlling Production of this Personal Protective Equipment:SGS Fimko Ltd,
Notified Body 0598
Takomotie 8
00380 Helsinki, Finland
Tel. +358.9.696361**L** Manufacturer & Contact Information:CMC Rescue, Inc.
6740 Cortona Drive
Goleta, CA 93117
United States**M** Model Identification: 336011**N** Individual Number:**O** Pulley Strength:**P** Carefully Read the Instructions for Use:

2

FIELD OF APPLICATION

SEE TEXT

Standards & Certifications

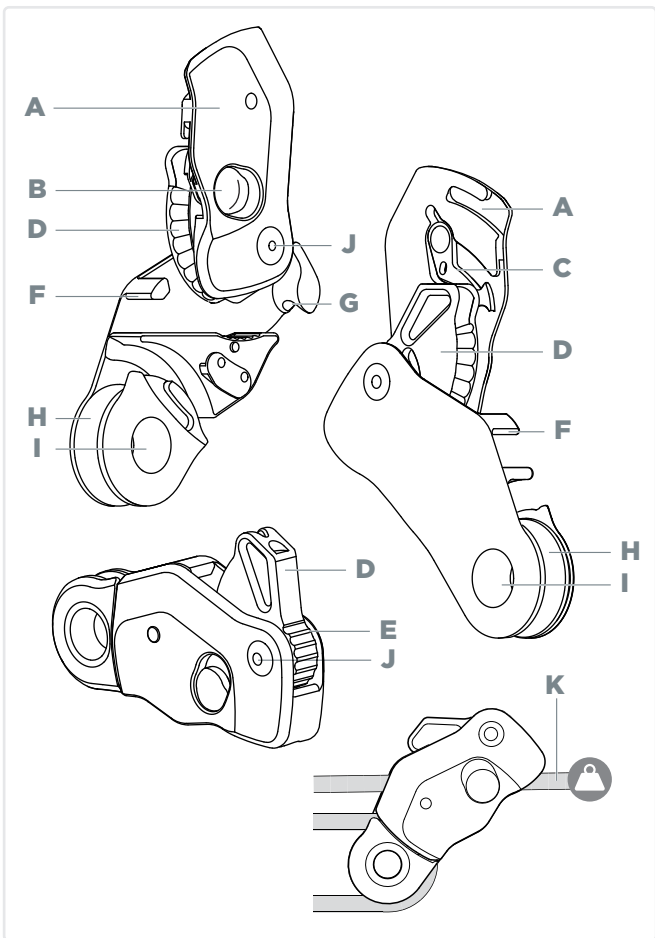
Standard	Allowable Rope Type(s)	Diameter Range	Rating / Max Load
NFPA 2500 Rope Grab	CI1801 Static Rope	Ø 10.5-11 mm	G-Rated
NFPA 2500 Pulley	N/A	Ø 13mm MAX	G-Rated ¹
EN 12841:2006/B	EN 1891-A	Ø 10.5-11 mm	200 kg
EN 567:2013	EN 1891 – EN 892	Ø 10.5-11 mm	N/A
EN 12278:2007	EN 1891 – EN 892 – EN 564	Ø 13mm MAX	36kN (18+18) ¹

¹ Pulley strength testing performed by using CAPTO Becket as Pulley Attachment Point

3

NOMENCLATURE

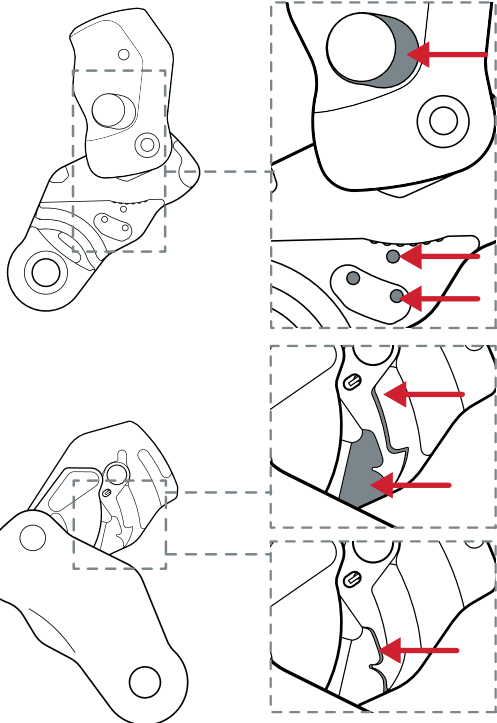
A Moving Sideplate	G Front Rope Guide
B Sideplate Release Button	H Pulley
C Sideplate Latch	I Becket
D Cam	J Accessory Loop Attachment
E Cam Grip	K Anchor/Load End
F Rear Rope Guide	



4

INSPECTION, POINTS TO VERIFY

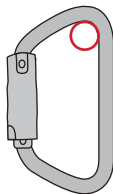
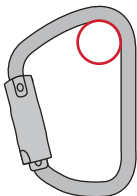
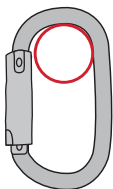
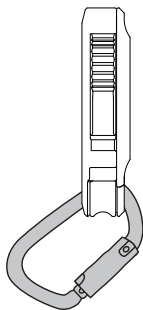
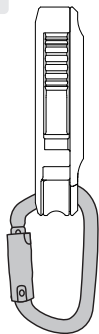
Cleaning



5

COMPATIBILITY

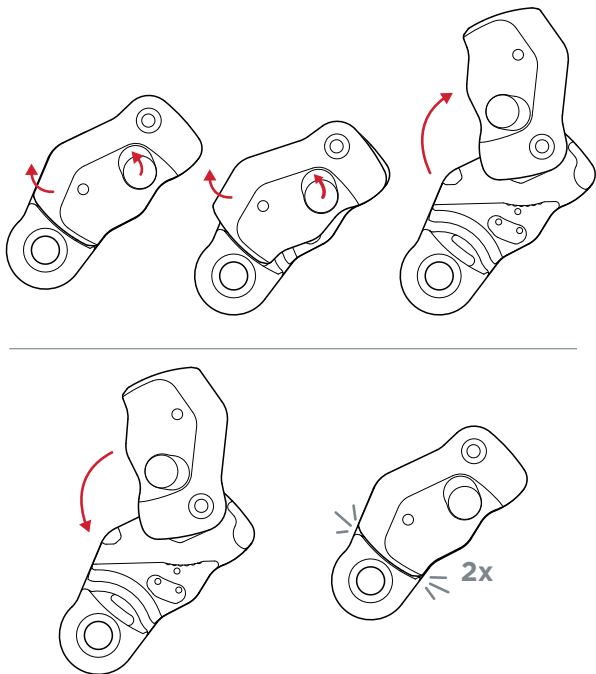
Connectors



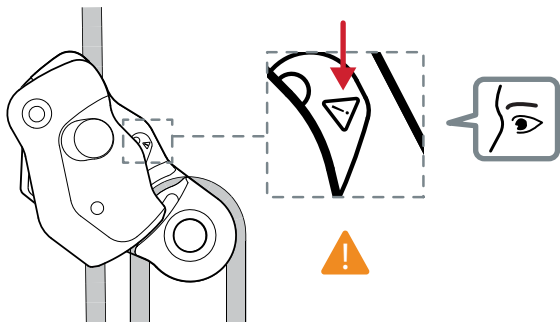
6

PRODUCT USE

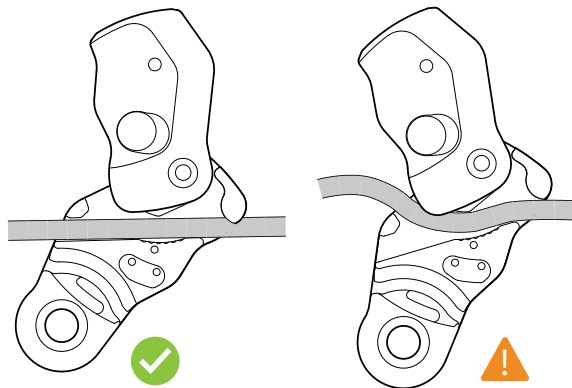
Opening & Closing the Sideplate



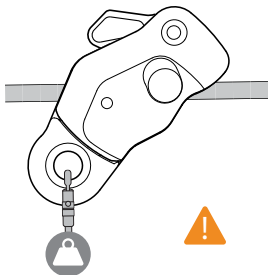
WARNINGS - 6A



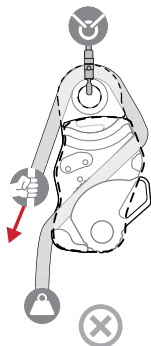
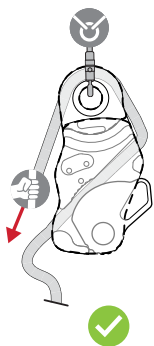
WARNINGS - 6B



WARNINGS - 6C

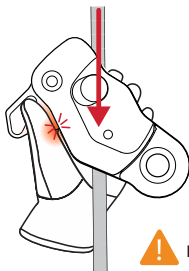


WARNINGS - 6D



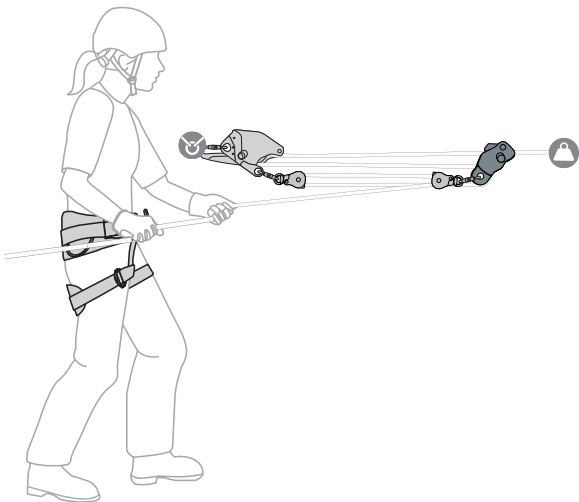
i See text for details

WARNINGS - 6E

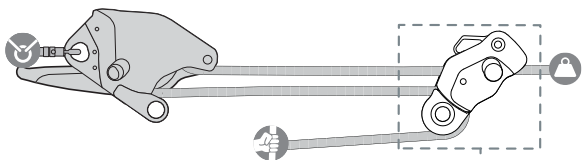


Pinch Point

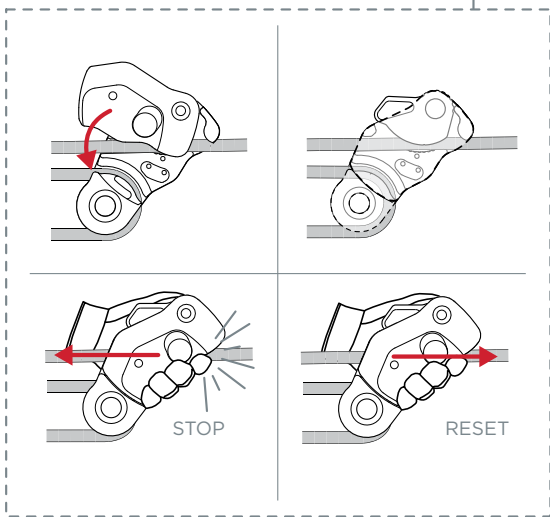
Use in Hauling



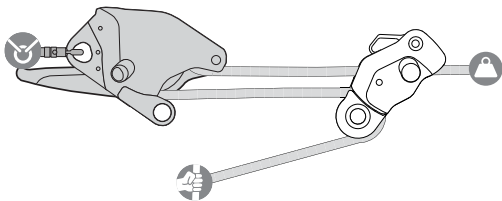
Use in Hauling



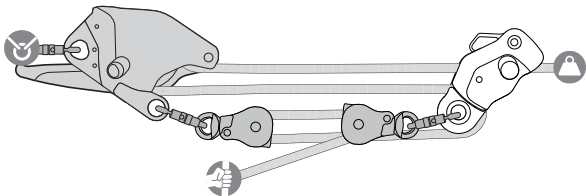
Function Test



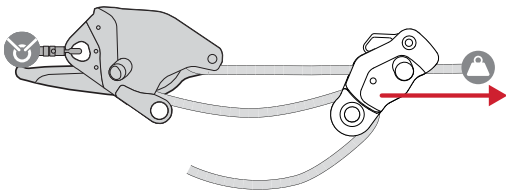
3:1 Mechanical Advantage System



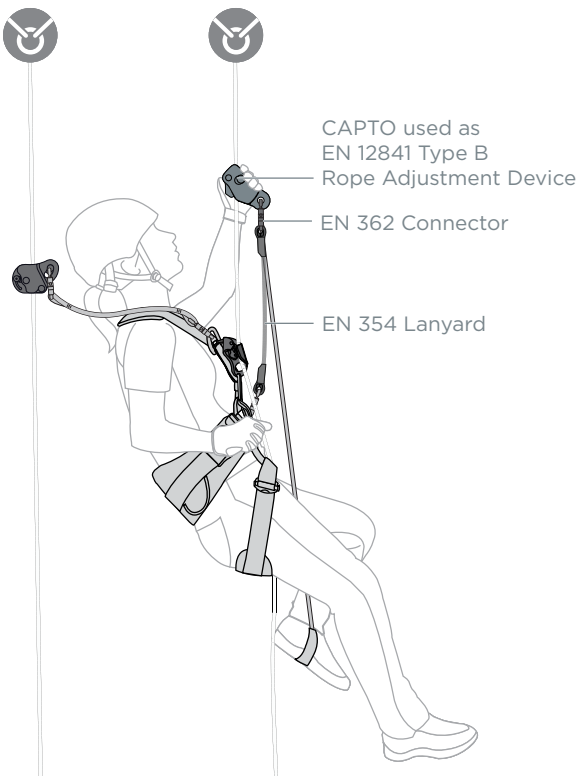
5:1 Mechanical Advantage System



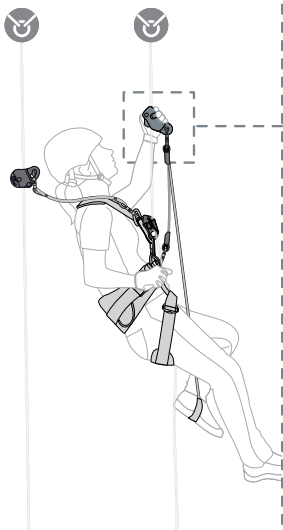
Re-Setting the System



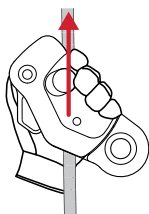
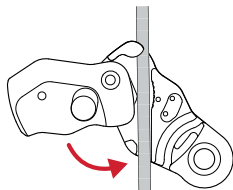
Use in Ascending



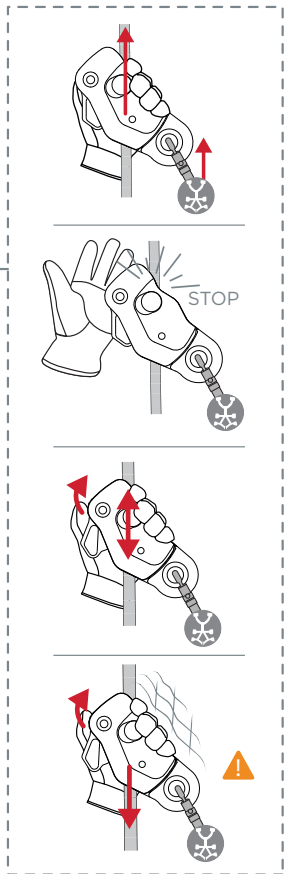
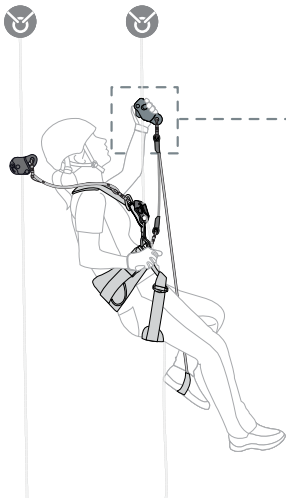
Use in Ascending



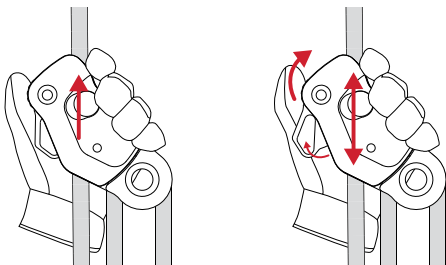
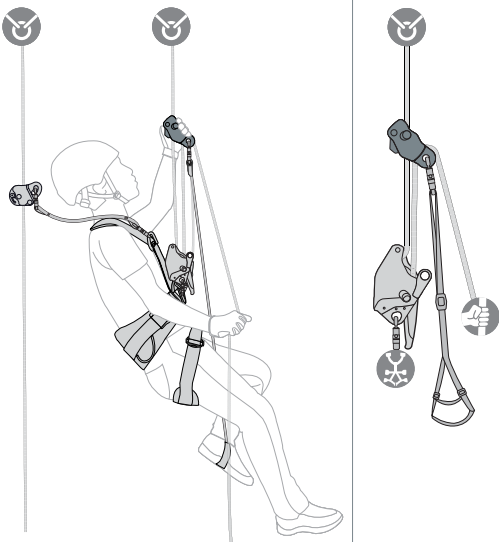
Function Test



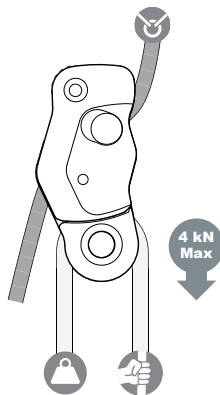
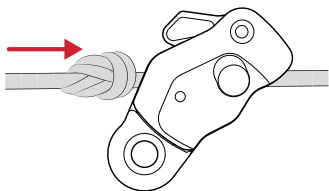
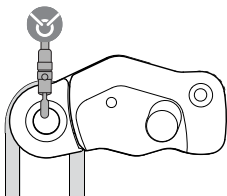
Use in Ascending



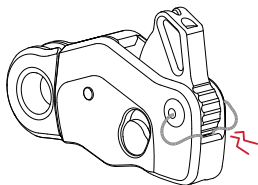
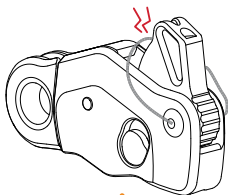
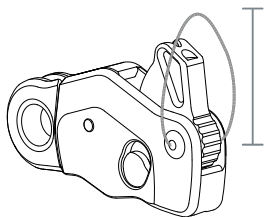
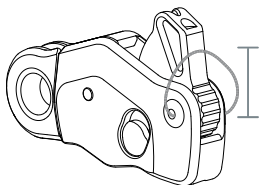
Use in a RAD System



Use As a Pulley



Accessory Loop Attachment



7

EQUIPMENT RECORDS

Equipment Record Table

Product Name, Model	CAPTO™
Manufacturer	CMC RESCUE, INC 6740 Cortona Drive Goleta, CA 93117 USA
Manufacturer Contact Information	Tel: 800-235-5741 / 805-562-9120 Fax: 800-235-8951 / 805-562-9870 Email: info@cmcpro.com Web: cmcpro.com
User (company, name, and address)	
Product Serial #	
Year of Manufacture	
Purchase Date	
Date of First Use	
Expiration Date	

Periodic Inspection Checklist

Check Date	Notes/Results	Inspector Name & Signature	Date of Next Check

8

ADDITIONAL INFORMATION

Manufacturer

CMC Rescue, Inc.,
6740 Cortona Drive
Goleta, CA 93117, USA
805-562-9120 / 800-235-5741
cmcpro.com | info@cmcpro.com
ISO 9001 Certified
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Notified Body conducting the EU type examination

VVUÚ, a.s.
Notified Body 1019
Pikartská 1337/7
716 07 Ostrava-Radvanice
Czech Republic
tel.: 00420 596 252 111
fax: 00420 596 232 098

Notified Body Controlling Production of this Personal Protective Equipment

SGS Fimko Ltd,
Notified Body 0598
Takomotie 8
00380 Helsinki, Finland
Tel. +358.9.696361

Declaration of Conformity

CMC Rescue, Inc. declares that this article is in conformity with the essential requirements and the relevant provisions of EU regulations. The original Declaration of Conformity can be downloaded at the following website: cmcpro.com.

WARNING

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 the 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.

For information on device performance when using other life safety ropes, please contact CMC or refer to CAPTO technical section at cmcpro.com.

1. TRACEABILITY & MARKINGS

(A) Product Name (B) Rope Path Diagram (C) Double Action Opening (D) Incorrect Rope Path (E) Rope Diameter & Anchor/Load Side (F) Special Notice or Caution (G) Pulley Loading/Running Direction (H) USA Made (I) Mark and Information of NFPA certification body (J) Standard Markings (K) CE mark and Number of the Body Controlling Production of this Personal Protective Equipment (L) Manufacturer & Contact Information (M) Model Identification: 336011 (N) Individual Number (O) Pulley Strength (P) Carefully Read the Instructions for Use:

2. FIELD OF APPLICATION

Introduction

CAPTO is an intuitive device that reduces the time and equipment required for hauling, ascending, and related tasks. Featuring an integrated rope grab, pulley, and becket, CAPTO allows rapid rigging of mechanical advantage systems without the need to use prusiks or attach multiple components.

CAPTO's innovative V-groove Cam is intended to hold a rescue load without damaging the rope. Unlike toothed devices, the V-groove Cam is designed to dissipate energy in overload situations by slipping on the rope. Visit CMC's website for data on CAPTO slip performance across a range of industry ropes in multiple hauling configurations.

The V-groove Cam installs quickly and easily on tensioned and un-tensioned lines. It smoothly releases, even after a slip event, running up the rope with minimal friction and engaging again with ease. An accessory loop can be installed in CAPTO's hollow Cam axle to allow remote resets of mechanical advantage systems and ergonomic stowage on a harness or gear rack.

Built into CAPTO chassis is a high-efficiency needle roller bearing pulley with an integrated becket. Both the Cam and pulley are immediately accessible when the Sideplate is open, making it possible to rig 3:1 haul systems in a single motion. Rope can be installed and removed without detaching from the becket. As an independent attachment point, the becket is ideal for connecting mechanical advantage components or personal ascent equipment such as lanyards, retention systems, etriers, and foot loops.

Applications

CAPTO shall not be used outside of its limitations, or for any purpose other than that for which it is intended.

This equipment is personal protective equipment (PPE) used for fall prevention during work and rescue. This product meets the requirements of regulation (EU) 2016/425 on personal protective equipment only when used as a Type B rope adjustment device (EN12841), as a rope grab/ascender (EN567 & NFPA 2500), and as pulley (EN 12278 & NFPA 2500).

When used as rope adjustment device in rope access systems (EN 12841/B), the device acts as a working line ascender and can be used for work positioning in rope access systems and for travel restriction (restraint). When used as rope clamp (EN 567 & NFPA 2500), the device will grab under load in one direction and move freely in the opposite direction when attached to a rope of an appropriate diameter.

When used as a pulley (EN12278 & NFPA 2500) the device can be used to link a rope (in accordance with EN 892 and EN 1891) or an accessory cord (in accordance with EN 564) to a connector (in accordance with EN 12275) to reduce the friction while the rope or accessory cord is moving under load.

The EU declaration of conformity is available at cmcpro.com.

Standards & Certifications

¹ Pulley strength testing performed by using the CAPTO becket as Pulley Attachment Point

Responsibility

These instructions explain the correct use of your equipment. The warning symbols inform you of some potential dangers related to the use of your equipment, but it is impossible to describe them all. You are responsible heeding each warning and using your equipment correctly. Any misuse of this equipment will create additional dangers. This product shall only be used by a person that is trained and competent in its safe use.

Contact CMC if you have any questions or difficulty understanding these instructions. Check cmcpro.com for updates and additional information.

User Information shall be provided to the user of the product. NFPA 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. This document must be provided to the user by the retailer in the respective country's language and must be kept with the equipment while it is in use. Observe relevant national regulations.

Before using this equipment, you must have a rescue plan in place to deal with any emergencies that could arise and be medically fit and capable of controlling your own security and emergency situations. Check equipment before and after use. No alterations or additions to the equipment shall be made without the manufacturer's written consent. The user must ensure that, in the event of falling into the PPE system, rescue can take place immediately, effectively, and safely. Motionless suspension in a harness may cause severe injury or death.

While the CAPTO is intended to slip in overload situations, unforeseen or untested scenarios, environmental conditions, or other factors could prevent slippage. In these cases the total applied loads should not exceed 2500 lbf (11kN) to prevent damage to the CAPTO, rope or other system components. CMC recommends the use of an Enforcer Load Cell or other load-sensing device in training scenarios to better understand these limits.

3. NOMENCLATURE

(A) Moving Sideplate (B) Sideplate Release Button (C) Sideplate Latch (D) Cam (E) Cam Grip (F) Rear Rope Guide (G) Front Rope Guide (H) Pulley (I) Becket (J) Accessory Loop Attachment (K) Anchor/Load End

4. INSPECTION, POINTS TO VERIFY

Inspection

User safety depends on equipment integrity. Equipment should be thoroughly inspected prior to being placed into service and before and after each use. In addition, a detailed periodic inspection, by a competent person, is required at least every 12 months (depending on current regulations, and conditions of use). Follow the inspection procedures available at cmcpro.com. Record and store the results of the inspection in the Inspection Checklist. If the equipment fails inspection, it should be withdrawn from service and marked accordingly or destroyed to prevent further use.

Before & After Each Use

Perform the checks listed below to ensure that the equipment is in serviceable condition and operates normally before it is used:

- 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.

- Check for the presence of dirt or foreign objects that can affect or prevent normal operation such as grit, sand, rocks, and debris.
- Check the Side Plate for deformation or excessive play.
- Check the movement of the Cam and the effectiveness of its spring.
- Check the Cam grooves for excessive wear.
- Confirm the pulley is functional and freely rotates around its axis.

During Use

- Confirm all pieces of equipment 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.
- Evaluate environmental conditions. Damp or icy environments can alter equipment behavior. Performance can vary depending on the state of the rope (age, wear, mud, moisture, ice).
- Reduce the risk of shock load by minimizing slack between the device and the load/anchor.

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 product must be withdrawn from service immediately 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 a major event such as 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.

Withdrawn equipment shall not be used again until confirmed in writing by a competent person that it is acceptable to do so. If the product shall be retired, remove it from service and mark it accordingly or destroy it to prevent further use.

Carrying, Storage, and Transport

During use, carrying, storage, and transport, keep the equipment away from acids, alkalis, rust, and strong chemicals. Do not expose the equipment to flame or high temperatures. Store in a cool, dry location. Ensure that the equipment is protected from external impact, sharp edges, excessive vibration, extreme temperatures, chemical reagents and ultraviolet radiation.

Cleaning

Clean and dry this equipment after each use to remove any dust, debris and moisture. Use clean fresh water to wash off any dirt or debris. Do not use a pressure washer to clean the device. If device gets wet from use or cleaning, allow the device to air dry at temperatures between 10° C and 30° C, keep away from direct heat.

After using CAPTO in dirty or dusty environments, the latching mechanism may need to be cleaned and lubricated to maintain proper function. When cleaning, use a cotton swab saturated with isopropyl alcohol to wipe away dirt or dust from the surfaces of the Sideplate Release Button, Sideplate Latch, and lock pins as highlighted in the illustrations.

Warranty & Repairs

If your product has a defect due to workmanship or materials, please contact 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 attach 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.

5. COMPATIBILITY

Verify that this product is compatible with the other equipment in the system and that its intended applications meet current standards. Equipment used with this product must meet regulatory requirements in your jurisdiction and/or country, and provide safe, functional interaction.

When combining this product with other equipment and/or using this product in a rescue / fall prevention system, users must understand the instructions of all components prior to use and comply with them to ensure that safety aspects of these items do not interfere with each other.

Danger may arise and functionality may be compromised by combining other equipment with this product in which the safe function of any one item is affected by or interferes with the safe function of another. User assumes all responsibility for non-standard use or added components. Contact CMC if you are uncertain about the compatibility of your equipment.

Rope

Use only the recommended diameters and types of synthetic rope. Different types of anchor lines may change the characteristics and safe function of the device. Rope grab performance can be affected by various parameters such as the diameter, construction, wear and tear, and surface treatment of

the rope, as well as other variables such as ropes that are frozen, muddy, wet, or dirty.

Depending on relevant regulations, the equipment can only be used with rope types listed in the Standards & Certifications table.

For the certifications EN 12841:2006/B and EN 567:2013, the following ropes have been used:

- Teufelberger Fiber Rope Corp, KMIII, 10.5 mm and 11 mm

WARNING: Do not use on wire ropes or braided (laid) ropes.

Connectors

When installing carabiners into the becket, it is advisable to orient the carabiner such that the widest part interfaces with the device. To minimize tri-loading, make sure that the carabiner is aligned with the rope and device and when the load is applied, it does not cause binding in the becket.

Connectors with tight internal radii and/or sharp angles can increase edge loading of the becket and can reduce strength or cause damage to the carabiner or the CAPTO. Aluminum carabiners are preferred for use with the CAPTO. Steel or Stainless steel connectors, especially those with tight internal radii or sharp angles, are not recommended for use in the becket.

- EN 12841/B use: EN 362 Class B carabiners.
- NFPA 2500 (2022 ED) use: Technical or General Use carabiners.

Anchors

It is essential that the device and the anchor points are always correctly placed above the user, and that the work is organized in such a way to minimize the risk of a fall from a height. Always ensure enough clearance to avoid impacts with the ground or other obstacles in case of a fall.

For EN 12841/B, use only anchor points that comply with the EN 795 standard (minimum strength of 12kN or 18kN for non-metallic anchors) that do not have sharp edges.

Harnesses

This product is compatible with work harnesses (EN 813, EN 361) when used in compliance with EN 12841 and with mountaineering harnesses (EN 12277) when used in compliance with EN 567 and EN 12278.

Lanyard Connection (EN12841)

In compliance with EN 12841:2006/B, the device can be connected to the harness using an EN 813 attachment point on the harness, an EN 354 lanyard and EN 362 connectors. The total length of the connection shall be less than 1 meter, and it is imperative to ensure that the device remains within the user's reach at full extension.

6. PRODUCT USE

Opening & Closing the Sideplate

To open CAPTO, actuate the Sideplate Release Button

two consecutive times. This will release the Sideplate and allow it to swing completely open.

To close CAPTO, push the Sideplate back into its closed position. The latch should make two audible clicks as the Sideplate closes.

Installation & Removal

Installation:

- Open the Sideplate by actuating the Sideplate Release Button twice as previously described.
- Hold CAPTO with one hand and use the other hand to pull slight tension on the host rope (if not already taught).
- Push CAPTO against the rope while moving it along the rope. This will help guide the rope into place. Follow the rope path indicated by the product markings and the manual illustrations.
- As needed, pull the Sideplate fully open using the thumb of the hand holding CAPTO. This will move the Cam completely out of the way for rope installation.
- Close CAPTO by rotating the Sideplate to the closed position as described above. Listen for two audible "clicks" and visually check that the Sideplate is fully closed.
- Function test CAPTO to confirm that the rope is correctly installed and the device is working properly. Always use a backup safety system when performing this test.

Removal:

- Remove any load that may be acting on CAPTO.
- Push CAPTO a few centimeters toward the anchor / load to disengage the Cam.
- Open the Sideplate by actuating the Sideplate Release Button twice. When the Sideplate is fully opened, it also moves the Cam away from the rope for easy removal.
- Take CAPTO off the working line, removing rope from the pulley if needed.

WARNINGS:

- Do not load CAPTO unless the Sideplate is fully closed and the Sideplate Release Button has returned to the lower position. **See figure 6A.**
- Do not attempt to release the Cam while the device is under load.
- If the Cam is engaged, do not attempt to pry it off the rope using the Sideplate. Instead, disengage the Cam by moving CAPTO a few centimeters toward the anchor / load.
- Ensure that the rope follows the path indicated by the laser markings and illustrations. **See figure 6B.**
- Make sure the rope does not pass above the Rear Rope Guide.
- Do not load CAPTO as a high line trolley. It is not intended to support a perpendicular load when placed on a tensioned line. **See figure 6C.**
- Do not install the rope directly from the rope grab into the inner pulley track. **See figure 6D.**
- Installing the rope through the rope grab and around the outside of the pulley will allow for progress capture in a 1:1 haul. Use in this configuration should be limited to taking up slack. CAPTO is not intended to be used as a progress capture pulley. Use in this manner could cause premature wear to the rope or device. **See figure 6D.**

Use in Hauling

CAPTO is designed to function as a Pulley Rope Grab (PRG) in haul systems. In this configuration, CAPTO works in combination with a Progress Capture Device (PCD), such as a belay / rappel device or a self-braking descender like the CMC CLUTCH by Harken Industrial™. Install CAPTO in a fixed position on the working line between the PCD and the load, and use the integrated pulley and bracket to add the desired mechanical advantage.

3:1 Mechanical Advantage System

Open CAPTO as previously described and install it on the load line going to the PCD. Take the tail end of the rope coming from the PCD and pass it around the CAPTO pulley in the direction indicated on the laser markings and shown in the illustrations. Ensure the Sideplate is fully closed before loading the system and hauling with this simple 3:1 Z-Rig.

5:1 Mechanical Advantage System

To progress from a simple 3:1 to a simple 5:1 mechanical advantage system, use appropriate connectors to attach a pulley at the PCD side of the system and another pulley to the CAPTO bracket. Take the tail side of the rope coming from the CAPTO pulley and thread it through the additional pulleys. Make sure to orient the pulleys in line with the rope. Swivel pulleys are recommended for this purpose but not required. A number of additional mechanical advantage systems can be built using CAPTO's pulley and integrated bracket.

Re-Setting the System

To re-set the haul system, release tension on the haul strand and push CAPTO toward the load. The bracket provides a useful point of leverage to reset the device to the desired position. Installation of an optional accessory loop can also provide a place from which to pull / re-set CAPTO.

To collapse the haul system, ease the haul strand and push CAPTO a few centimeters toward the load to release the Cam. Use a thumb on the Cam Grip to hold the Cam open and slide CAPTO towards the PCD.

Use in Ascending

Use of CAPTO in this application allows ascending a rope in accordance with EN567, EN12841/B, and NFPA 2500 Rope Grab / Ascender. When the adjustable anchor line is loaded by the full weight of the user it becomes a working line. A safety line with a (EN12841 Type A) backup device should be used for optimum safety of the user.

To install CAPTO on the working line, refer to the previous Installation & Removal section. When using CAPTO as an ascent device, attach a lanyard into the CAPTO bracket using a compatible connector. Attach additional personal ascent equipment as needed such as a foot loop or etrier. Function test CAPTO to confirm that the rope is correctly installed and the device is working properly. Always use a backup safety system when performing this test.

To remove CAPTO, refer to the previous Installation & Removal section. Use of a lanyard attached to the CAPTO bracket creates a retention system to prevent dropping the device. The technique for stowing

CAPTO on a harness gear loop may differ depending on the type of connector being used. The width of the CAPTO becket may prevent it from rotating around the spine of D-shaped carabiners. In most cases, the becket can pass over the carabiner gate to hang naturally when clipped to a gear loop. If using a carabiner with an especially large gate, such as an ANSI-compliant connector, it is recommended to use an oval carabiner to allow becket rotation along the spine. In this case, it is also best to clip into CAPTO first before attaching additional equipment such as a lanyard and/or foot loop.

To move CAPTO toward the anchor during personal ascent, push / pull the device to slide it along the working line. To make upward progress, use CAPTO in conjunction with a PCD, such as a cast ascender or self-braking descender. Take extra caution when approaching knots, anchors, or intermediate anchors. Keep the device at or above the user connection point to eliminate the potential for falls with a fall factor greater than 1.

To release the Cam for the purposes of descending a line, begin by removing any load acting on the pulley and becket. Push CAPTO a few centimeters toward the anchor/load to disengage the Cam. Use a thumb on the Cam Grip features to rotate the Cam away from the rope as shown in the illustrations. Slide CAPTO along the line while holding the Cam open. Remove the thumb to allow the Cam to re-engage where desired on the rope.

WARNING: Do not attempt to release the Cam while the device is under load. CAPTO will not grab rope when the Cam is manually held open.

Use in a RAD System

CAPTO can be used in combination with a self-braking descender to build a Rapid Ascent/Descent (RAD) System. A RAD System adds mechanical advantage and is recommended for ascents involving heavier loads, significant tail weight, or short climbs requiring efficient transitions between ascent and descent.

To build a RAD System, begin by installing and function testing the chosen self-braking descender. Open CAPTO Sideplate and place it on the working line between the descender and anchor. Pass the rope tail from the descender around the CAPTO pulley in accordance with the laser markings. This creates a 3:1 mechanical advantage when operated by the climber.

Close CAPTO Sideplate and function test the device. Attach additional equipment to the CAPTO becket as needed, such as a lanyard and foot loop. Progress upwards by pushing CAPTO toward the anchor then stepping up in the foot loop while pulling down on the rope tail exiting the CAPTO pulley.

Descent can be accomplished by down-climbing with CAPTO as previously described or by removing CAPTO from the working line and operating the self-braking descender.

Always use a set of two ropes, main and back-up, when ascending and descending on rope systems. This device is only intended to be used as a means of progression on a rope and is not intended to function in a fall arrest system.

Use as a Pulley

The primary function of the CAPTO pulley is to aid in building mechanical advantage systems. It can also be used as a stand-alone pulley by using the CAPTO becket as the pulley attachment point. Refer to the associated illustration for pulley attachment method and orientation.

The CAPTO pulley is strength rated only when the becket is used as the pulley attachment point. If CAPTO rope grab is used as the attachment point rather than the becket, then the stated pulley MBS does not apply. Additionally, this configuration limits the amount of force that can be applied to the pulley because CAPTO rope grab is designed to slip on rope when overloaded (for example when more than 4 kN is applied to the pulley or becket). For safe operation of CAPTO and its components, do not block the rope grab with a stopper knot or otherwise prevent the device from slipping on rope.

Accessory Loop Attachment

CAPTO has a hollow Cam axle (4 mm diameter) that allows for the attachment of an accessory cord loop or soft shackle. The accessory loop can be used to attach connectors for resetting mechanical advantage systems or for stowing CAPTO on a harness, gear loop, or equipment rack. It should not be considered a life-supporting or load bearing / rated attachment point.

It is important to keep the length of the accessory loop sufficiently small so that it cannot pass behind the Cam and cause the Cam to be held open. Monitor the accessory loop when in use to make sure it does not get pulled into the Cam. An accessory loop of any size could interfere with the function of the Cam or Sideplate. Do not close the Sideplate with the accessory loop inside. Attach an accessory loop at your own risk.

7. EQUIPMENT RECORDS

Record the results of your detailed periodic inspection using the PPE inspection procedures and forms available at cmcprou.com or the sample table provided in this section. Relevant information includes: type, model, manufacturer contact info, serial number or individual number, problems, comments, inspector's name and signature, and key dates including manufacture, purchase, first use, and next periodic inspection. If equipment fails inspection, it should be withdrawn from service and marked accordingly or destroyed to prevent further use.

8. ADDITIONAL INFORMATION

Declaration of Conformity

CMC Rescue, Inc. declares that this article is in conformity with the essential requirements and the relevant provisions of EU regulations. The original Declaration of Conformity can be downloaded at the following website: cmcprou.com.

**Learn more about
your CAPTO**



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