



# CLiC-iT RiDER

## *CONTINUOUS BELAY SYSTEM*



INSTRUCTIONS AND MAINTENANCE MANUAL

Rev B // 27-11-2023

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## GLOSSARY

MCD: Mobile Connection Device.  
Technical definition that describe  
a pulley-type product according to  
EN17109...

IMN&CLiC-iT CBS: Continuous  
Safety Line System of IMN &  
CLiC-iT



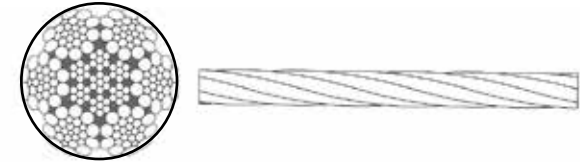
# A. COMPONENTS

## 1 CLIC-IT RIDER COMPONENTS COMPATIBILITY

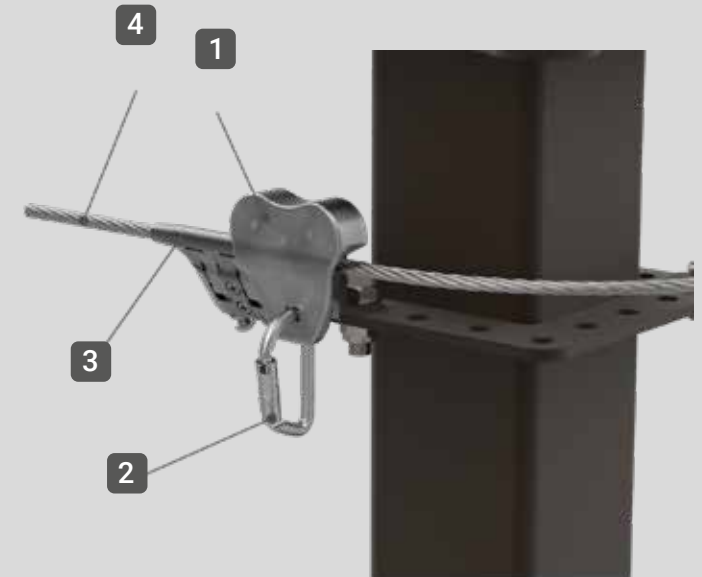
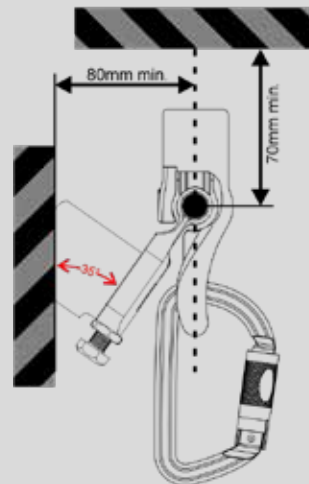
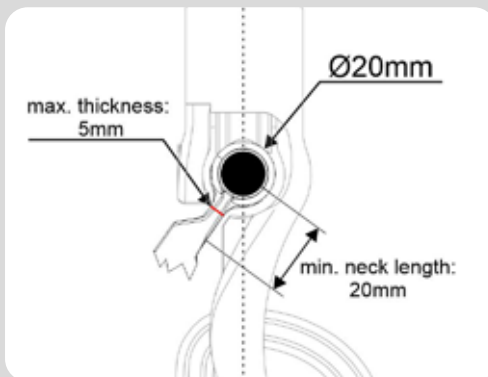
Réf :  
CR-CA-LDV

Type: 6x19 + IWRC (steel core compacted)  
Core: steel  
Surface treatment: hot-deep galvanized

Nominal diameter: 12mm  
Resistance: 127 kN  
Real diameter:  $\varnothing = 12\text{mm}$



The CLiC-iT RiDER continuous belay system is compatible exclusively with the CLiC-iT RiDER pulley. Do not use any other type of pulley on this lifeline. To ensure safe installation, use only components and rope supplied or recommended by CLiC-iT or IMN. Using other components (screws, shackles, cable, etc.) may affect the safety or durability of the continuous belay system. Please refer to the CLiC-iT RiDER Pulley, PIN-LOCK, Lanyard, LE CLOU Lifeline, Spacer and Platform instruction manuals for full operating instructions. To avoid premature wear of the pulley, observe the installation recommendations (distances, radii, angles, slopes, etc.). Failure to do so may result in the pulley rubbing against components (anchors, positioners, etc.). To avoid premature wear of the pulley, it is essential to check before opening the course that the pulley passes the anchors and positioners without impact or friction over the entire course. For further information and to test your course design, please contact us.



1 CLiC-iT RiDER Pulley 3 Anchor

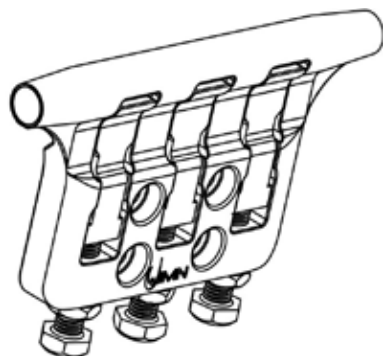
2 PIN LOCK Carabiner 4 Cable

## 2 ANCHOR

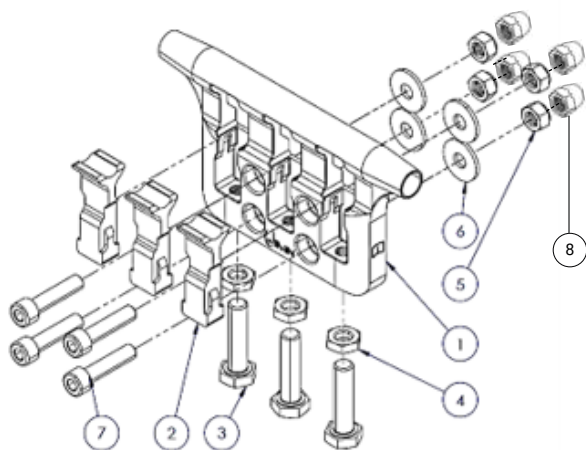
Reference: CR-AN

### 2.1 DESCRIPTION

Anchor allows a continuous movement for CLiC-iT RiDER Pulley along the entire game course. Its function is to guide the IMN&CLiC-iT SafetyLine cable and keeping it fixed at a certain point. To do this, 3 gripping pieces press the cable and prevent any movement.



### 2.2 ANCHOR COMPONENTS



- |   |  |                            |
|---|--|----------------------------|
| 1 Anchor body                                   | 4 Bottom nut<br>M10 ISO4035<br>geomet 500A | 7 Screw M8x35 A2<br>DIN912 |
| 2 Fastening part                                | 5 Self-locking nut<br>M8 DIN985            | 8 Cap nut M8 A2 DIN1587    |
| 3 Fixing screw<br>M10x40 ISO4017<br>geomet 500A | 6* Washer<br>M8 NFE25514                   |                            |

\*Only to be used when assembled on articulated arms

### 2.3 ESSENTIAL INSTRUCTIONS

The Anchor installation and maintenance requires the use of a calibrated torque wrench.

Required tools:



Manual or Digital Torque Wrench  
Ex: Irimo

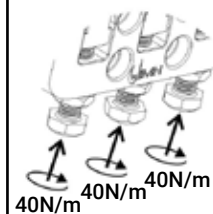


17mm Hexagonal head

or



17mm Hexagonal socket



To fix the safety cable, you must exert a torque of 40 N / m on each M10 screw.

A torque wrench must be used to not exceed this value.

Finally, manually tighten the nuts of each screw.



! The use of an impact wrench is not allowed.  
! Never exceed the indicated torque.  
! Ignoring these indications can lead to anchor fracture.



The installation of the anchor on the anchor wedge or on the articulated arm is carried out using the components 5, 6, 7 & 8 according to the assembly procedure of this manual.

### 2.4 CLEANING RECOMMENDATIONS

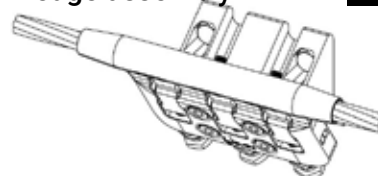
- Don't clean Anchor with soap or water.
- To remove dirt from Anchor use compressed air or a damp cloth.
- Avoid long exposure of the product in saline environments.



### 2.5 ASSEMBLIES

Anchor and Anchor Wedge assembly

3.



Anchor and Articulated arm assembly

4.



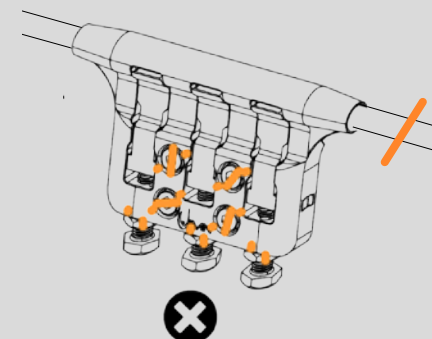
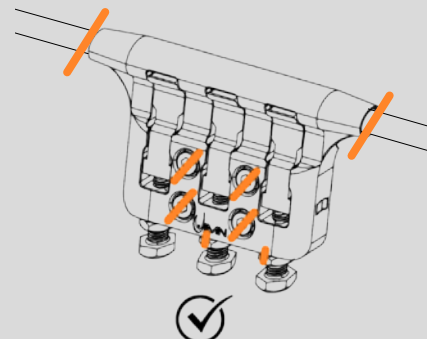


Marking a line on cable will indicate if the cable has slipped.

Marking a line on the screws will indicate if the anchor loosens over time.

The screws will not be tight if the line is not straight.

Use a permanent marker in a visible, weather-protected color



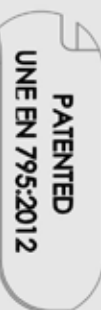
## 2.6 TRACEABILITY AND MARKING

### UNE EN 795:2012

Standard for personal protective equipment against falls in height.

It establishes the technical requirements necessary to cover the possible health and safety risks associated with the use of the product.

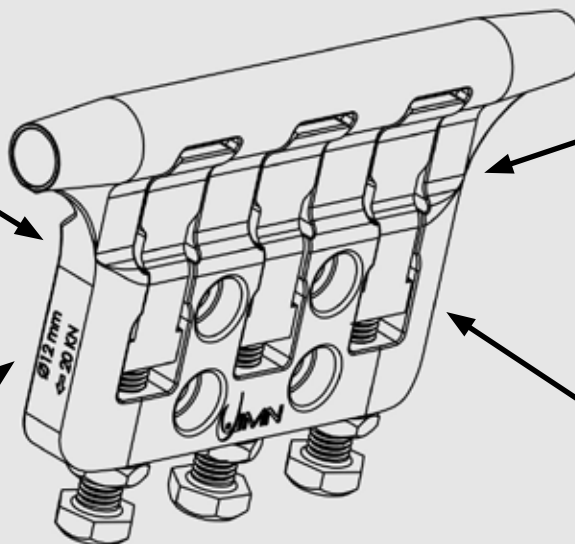
Compliance with European Directive 89/686/EEC: Personal protective equipment (PPE).



### ESSENTIAL TECHNICAL SPECIFICATIONS

**Ø12mm** Anchorage designed for safety lines equipped with 12 mm diameter steel cable.

**20kN** Limit load capacity established by the manufacturer for use in the indicated direction.



### 062020

Code respective to the production batch and correlative to the part version.

### A0854

Individual identification code.  
(A): part denomination.  
(XXXX): unique numeric code.



Essential instructions for product use described in the manual.



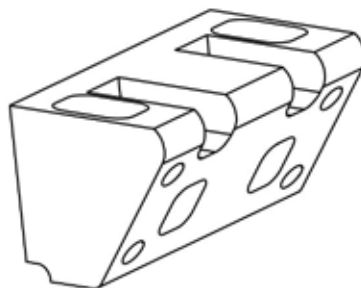
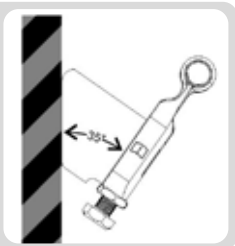
# 3

## ANCHOR WEDGE

Reference: CR-AW

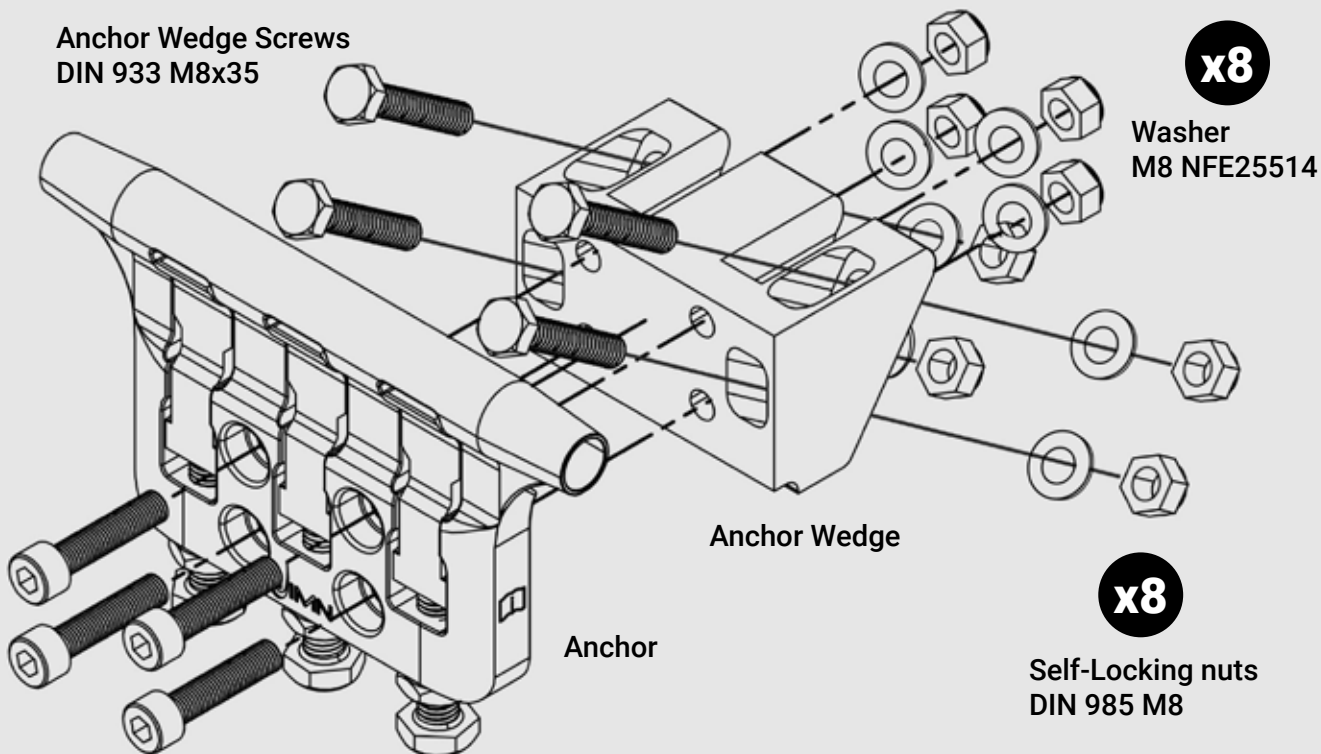
### 3.1 DESCRIPTION

Anchor Wedge is a piece of cast steel whose function is to provide the ideal inclination of 35° for Anchor. This is the standard connecting element for attaching the Anchors to the structural poles of an adventure park.



### 3.2 ANCHOR & ANCHOR WEDGE ASSEMBLY

Anchor Wedge Screws  
DIN 933 M8x35



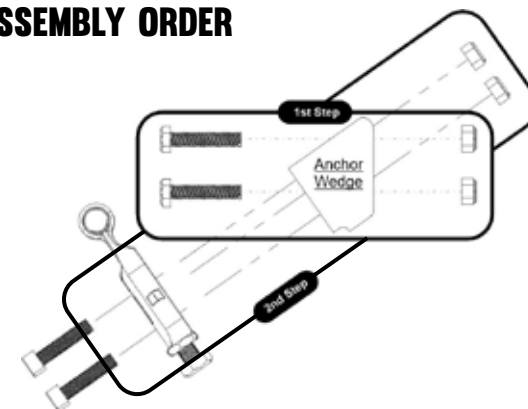
x8

Washer  
M8 NFE25514

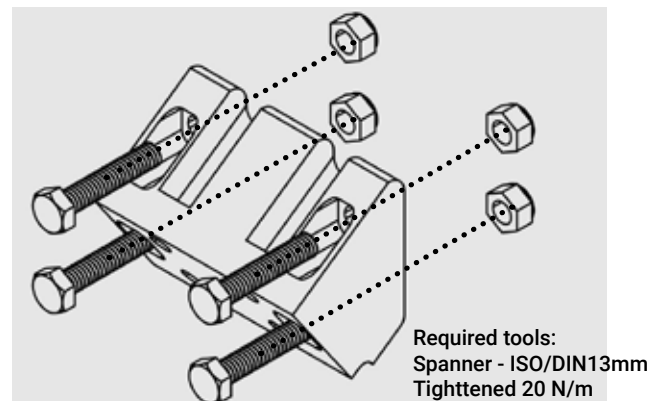
x8

Self-Locking nuts  
DIN 985 M8

### ASSEMBLY ORDER

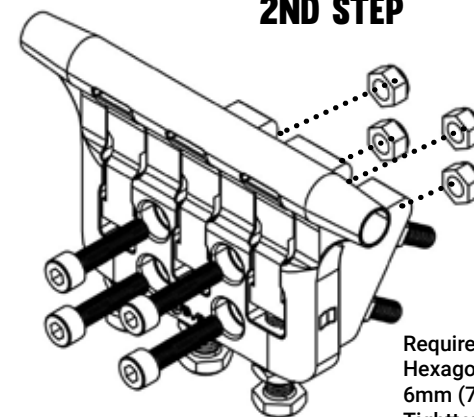


### 1ST STEP



Required tools:  
Spanner - ISO/DIN13mm  
Tightened 20 N/m

### 2ND STEP



Required tools:  
Hexagonal torque wrench -  
6mm (7/32")  
Tightened 20 N/m

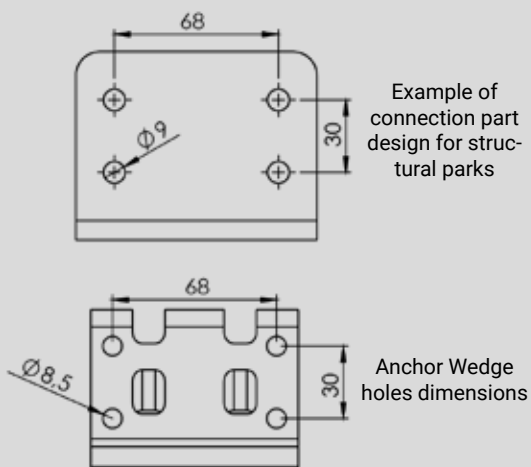


### 3.3 ANCHOR WEDGE INSTALLATION

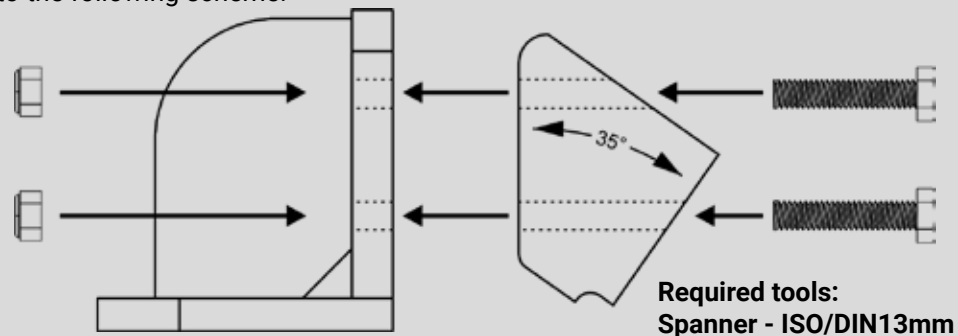
The location where the IMN&CLiC-iT CBS elements will be installed shall meet the following requirements:

- Must have sufficient mechanical strength to install the system
- A vertical surface is required to install Anchor Wedge
- This vertical surface must have the necessary holes to screw Anchor Wedge

#### Holes dimensions to install Anchor Wedge

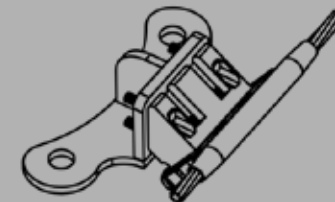


The connection of Anchor Wedge on a vertical surface is carried out according to the following scheme:



#### Example for structural parks

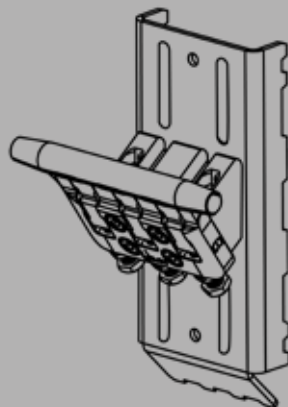
Anchor + Anchor Wedge + Connection part



6.

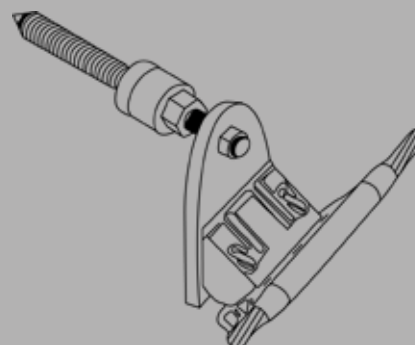
#### Example on anchor adapted for trees

Anchor + Anchor wedge +  
Anchor adapted for trees



#### Example on wedge adaptor LE CLOU

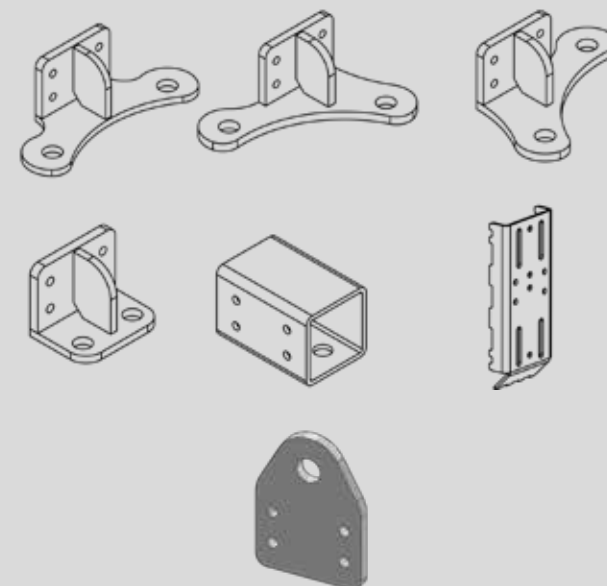
Anchor + Anchor wedge + Wedge adaptor  
LE CLOU (ref. CR-AN-AD) +  
LE CLOU SPACER (ref. CL-CBUM22)



For starts and finishes courses only



Before the purchase of IMN&CLiC-iT CBS items it is necessary to know the park characteristics and design the structural components necessary for the installation of the system



# 4 ARTICULATED ARMS

## 4.1 ARTICULATED ARMS. TYPES AND CONNECTIONS

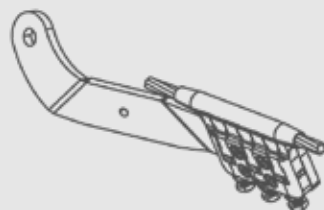
Reference: CR-SAL

Simple articulated Arm (Left side)



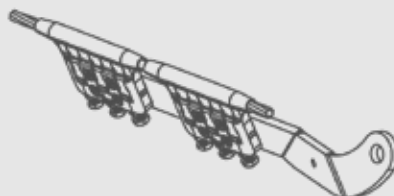
Reference: CR-SAR

Simple articulated Arm (Right side)



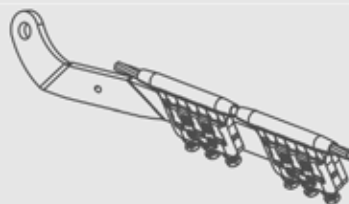
Reference: CR-DAL

Double articulated Arm (Left side)



Reference: CR-DAR

Simple articulated Arm (Right side)

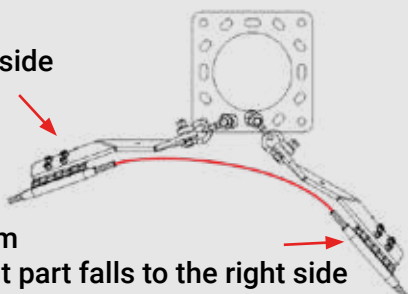


Left arm

The front part falls to the left side

Right arm

The front part falls to the right side



## 4.2 ANCHOR AND ARTICULATED ARMS ASSEMBLY

Required tools:

Spanner ISO/DIN13mm  
Hexagonal torque wrench  
6mm (7/32)

For a smooth passage of the pulley over the anchors, install articulated arms with this part vertical

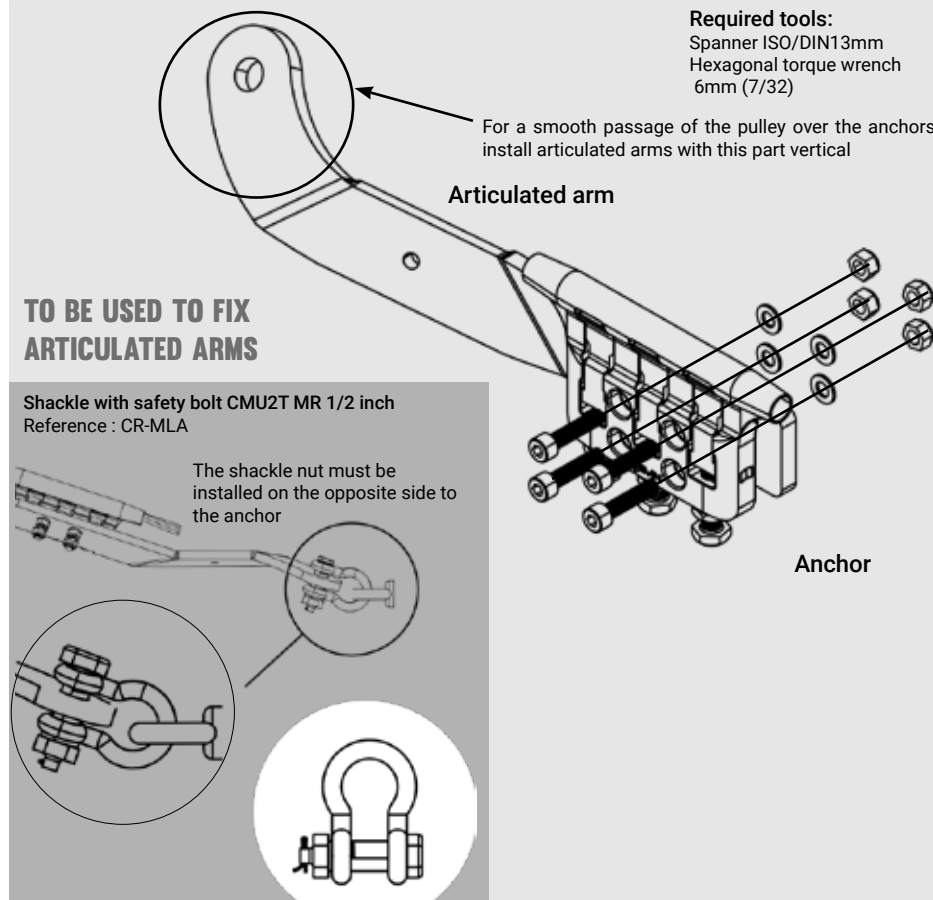
Articulated arm

TO BE USED TO FIX  
ARTICULATED ARMS

Shackle with safety bolt CMU2T MR 1/2 inch  
Reference : CR-MLA

The shackle nut must be installed on the opposite side to the anchor

Anchor

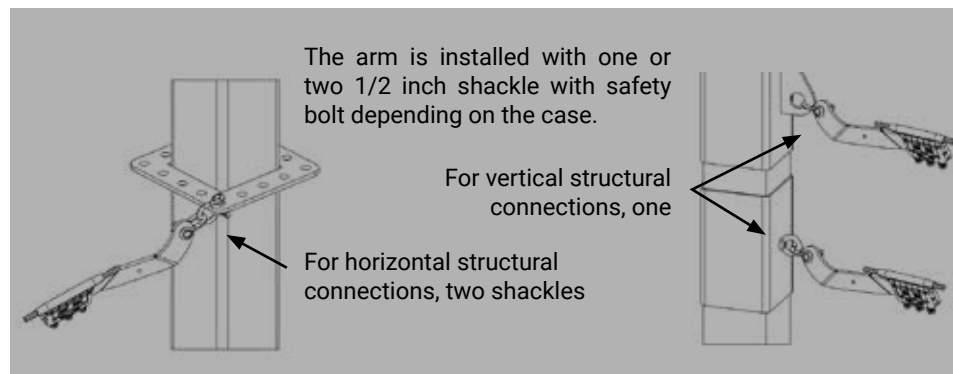


## 4.3 ARTICULATED ARMS INSTALLATION IN STRUCTURAL PARKS

The arm is installed with one or two 1/2 inch shackle with safety bolt depending on the case.

For vertical structural connections, one

For horizontal structural connections, two shackles



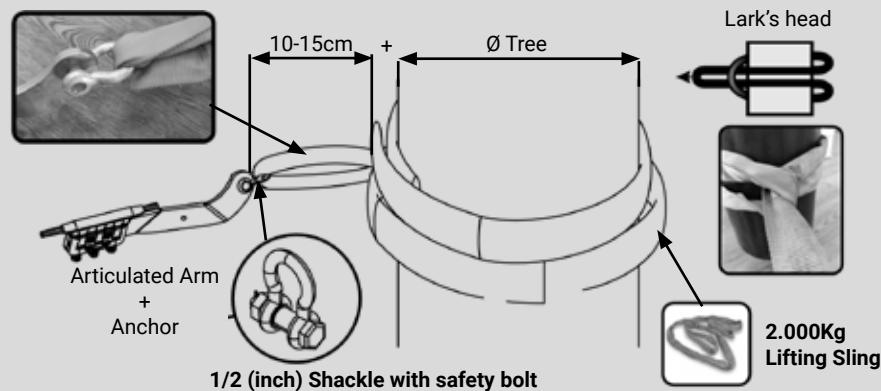
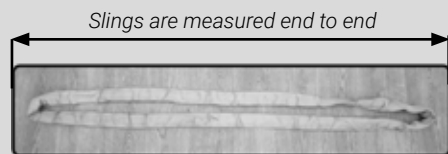


## 4.4 ARTICULATED ARM INSTALLATION ON TREES USING LIFTING SLING

To install an Articulated Arm on a tree, a sling with a strength greater than 2000 Kg is recommended.

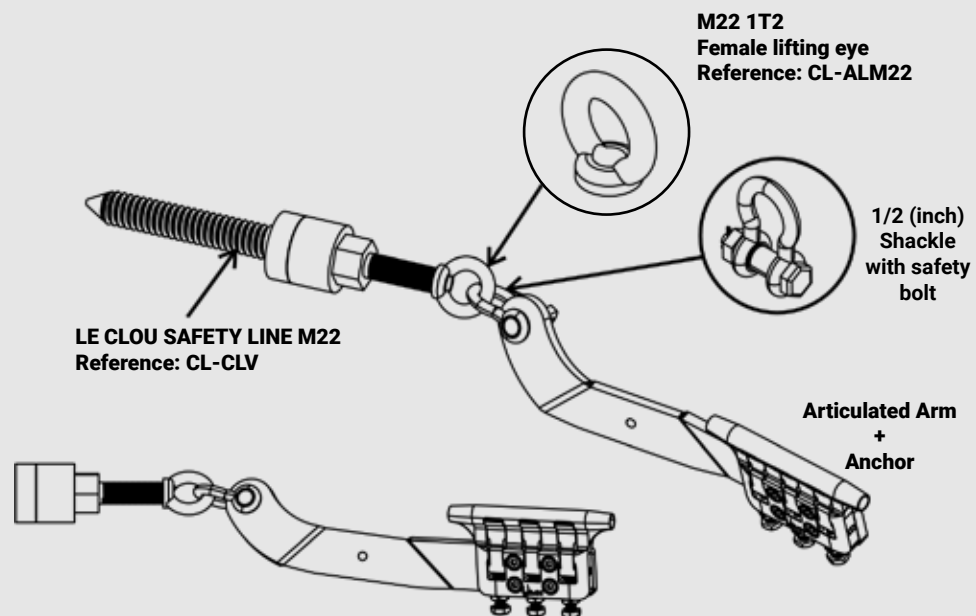
The remaining length after the knot should protrude between 10 and 15 cm.

Be sure to measure the diameter of the tree at the height where the installation will be made.

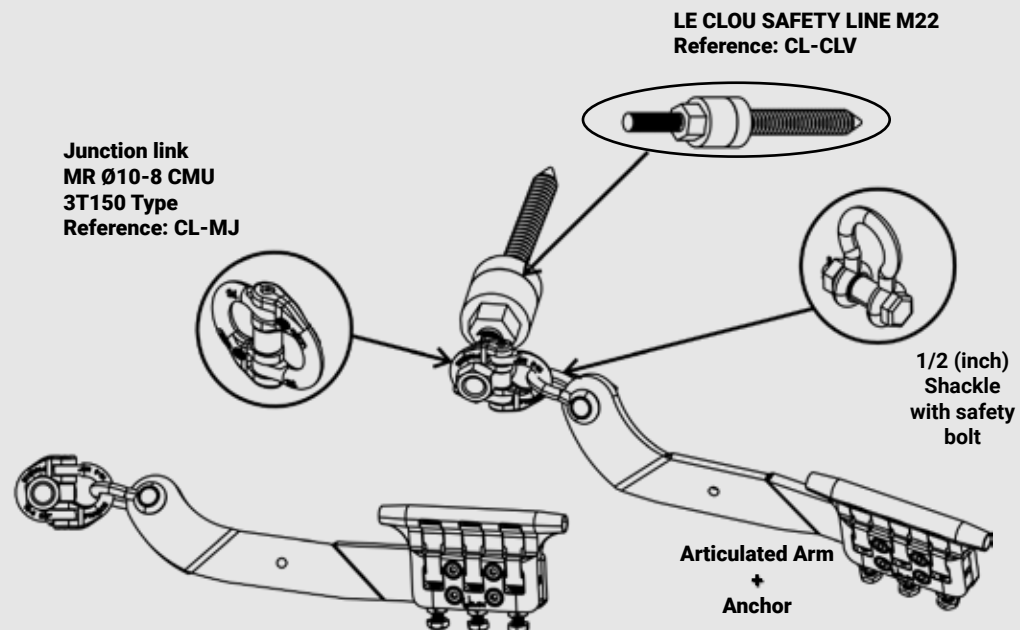


## 4.5 ARTICULATED ARM INSTALLATION ON TREES USING LE CLOU SYSTEM

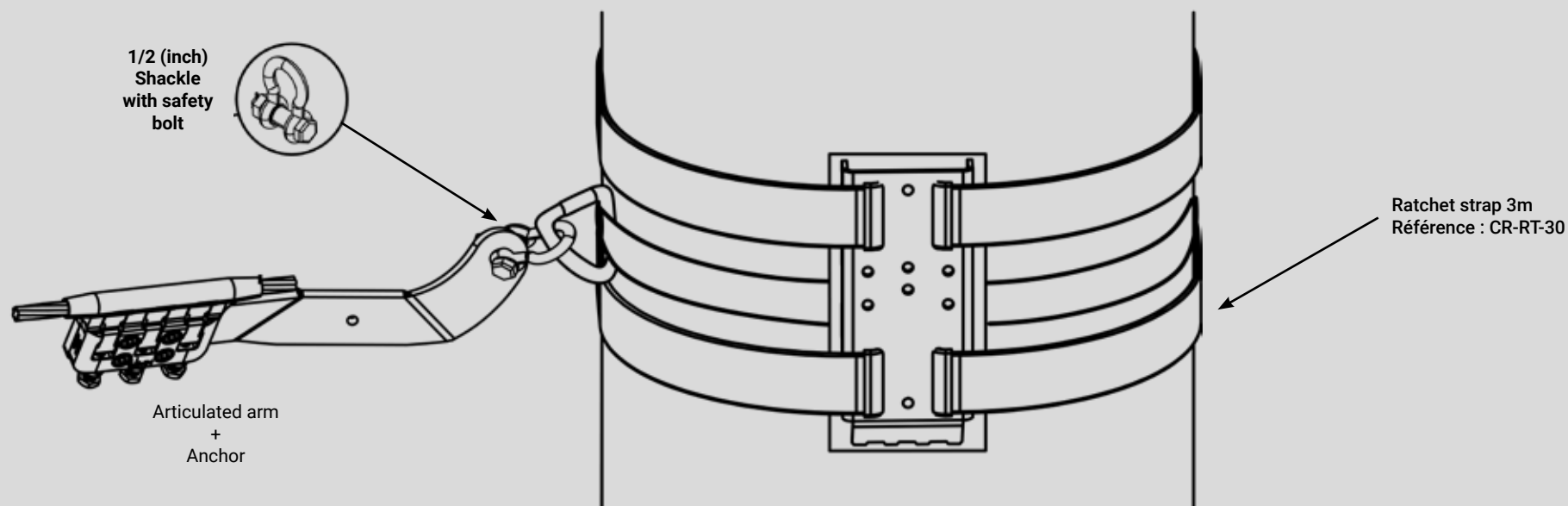
### FOR AXIAL LOAD ONLY



### FOR AXIAL & RADIAL LOAD



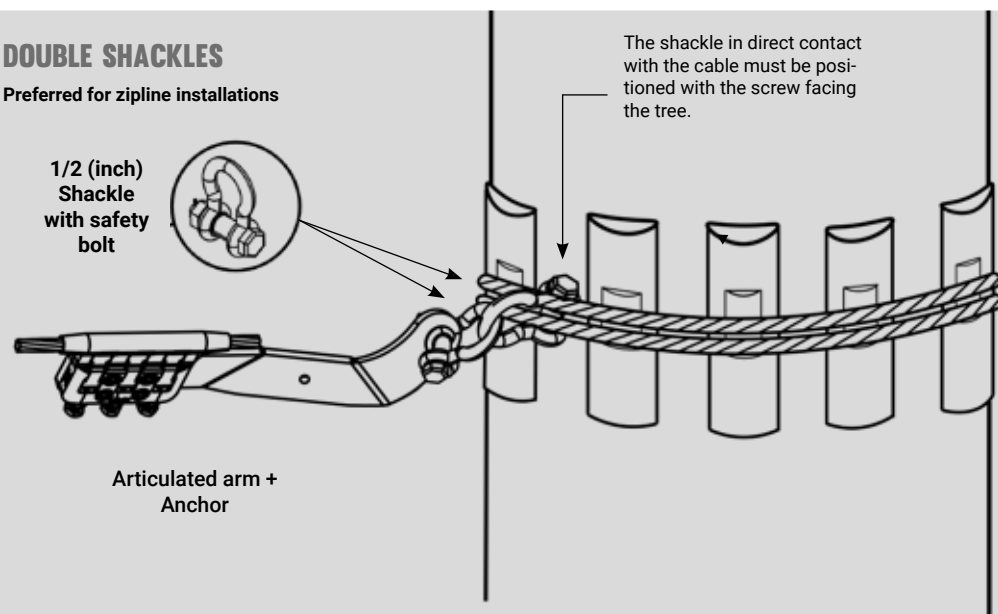
## 4.6 INSTALLATION OF ARTICULATED ARM ON TREE WITH RATCHET STRAP



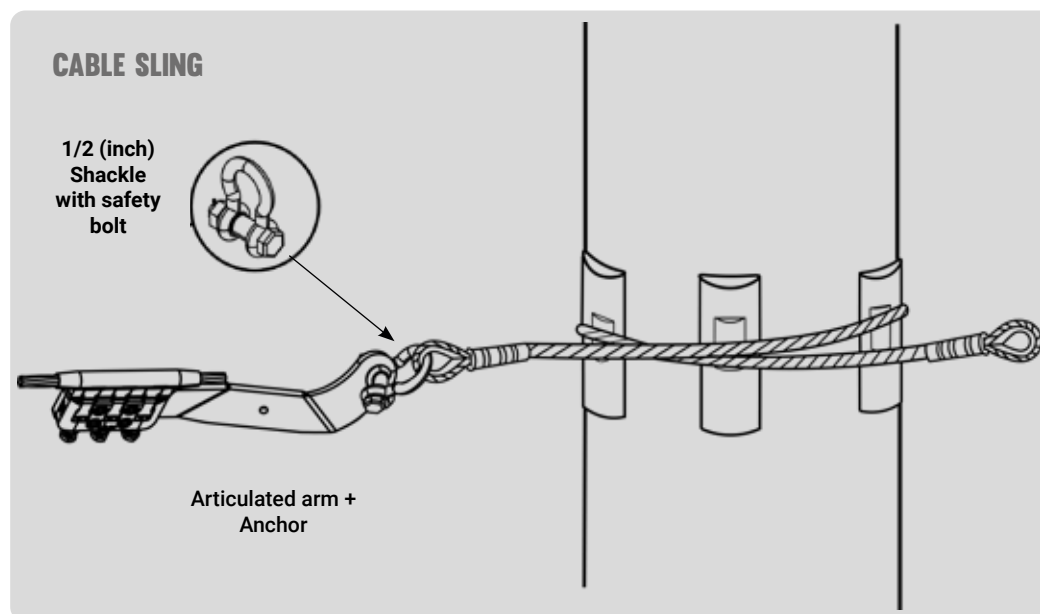
## 4.7 INSTALLATION OF ARTICULATED ARM ON TREE WITH CABLE SLING

### DOUBLE SHACKLES

Preferred for zipline installations



### CABLE SLING



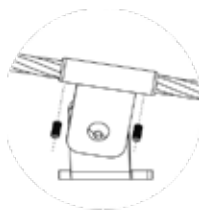
# 5 POSITIONERS

## 5.1 DESCRIPTION

Positioners are an economical option to guide the safety line cable at points where the structural strength provided by an Anchor is not required.

This devices can rotate to accommodate the path inclination required by the safety line.

Positioners fixes cable using two M5x5 set screws.



DIN 7380 Set Screw  
M5x5  
A2

x2

DIN 7380 Set Screw  
M8x20 (min.)  
A2

x1

DIN 933 Self-Locking nut  
M8  
8.8

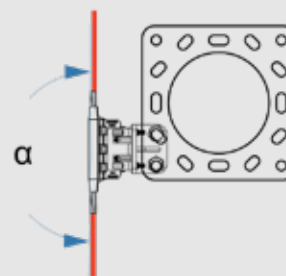
x1

Rondelle M8 A2

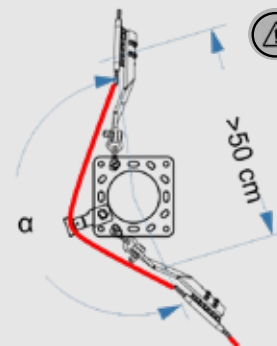
x3

## 5.3 HOW TO USE POSITIONERS

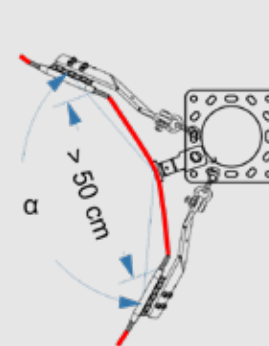
$a = 180^\circ \pm 6^\circ$   
NO POSITIONER



$a > 200^\circ$   
1 OU 2 POSITIONERS



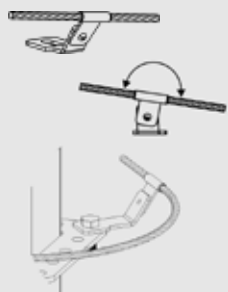
$a < 180^\circ$   
1 POSITIONER



## 5.2 REFERENCES

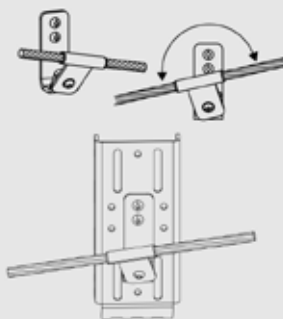
There are two types of Positioners, depending on whether a vertical or horizontal installation is required.

Horizontal positioner  
Reference: CR-HP



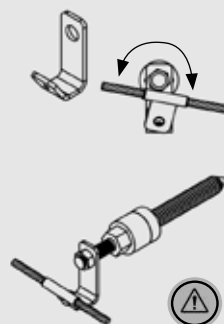
Ex: Installed on a column structure

Vertical positioner  
Reference: CR-VP



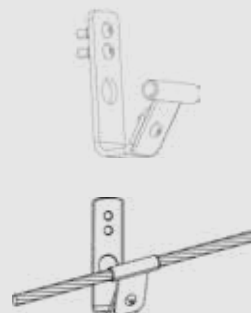
Ex: Installed on anchor adapted for trees

Vertical positioner for  
LE CLOU SPACER  
Reference: CR-PO-AD



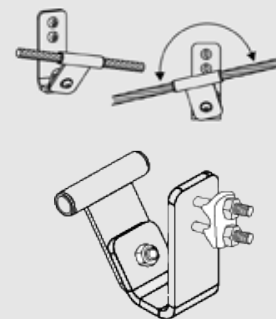
Ex: Installed on LE CLOU Safety line

Universal vertical  
positioner  
Reference: CR-VP-STD

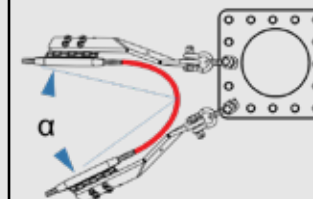


Compatibility :  
- Anchor adapted for trees  
- LE CLOU Spacer  
- Cable clamp

Vertical positioner  
cable clamp  
Reference: CR-VP-SC



$a > 45^\circ$   
NO POSITIONER



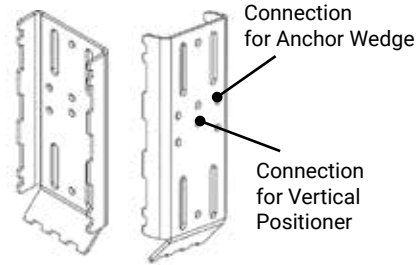
# 6

## ANCHOR PLATE FOR TREES

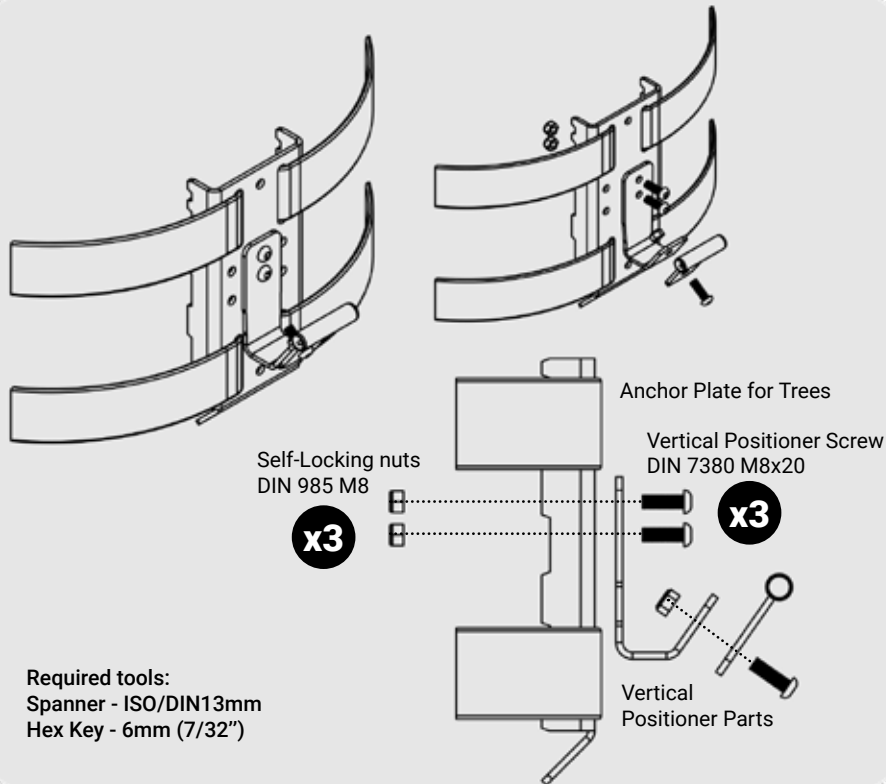
Reference: CR-AP

### 6.1 DESCRIPTION

Anchor Plate for Trees is used in adventure parks installed on trees. On this are mounted the necessary elements to drive the IMN & CLiC-iT CBS in the desired direction. The installation system prevents damage to the natural environment.



### 6.2 VERTICAL POSITIONER AND ANCHOR PLATE FOR TREES ASSEMBLY



### 6.3 ANCHOR PLATE FOR TREES INSTALLATION USING RATCHET TAPE

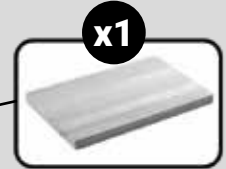
#### Required items:



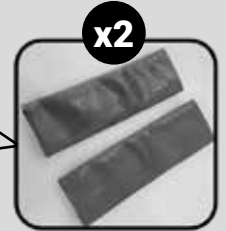
Ratchet Tape  
1.500Kg x (?)m  
Width 35mm



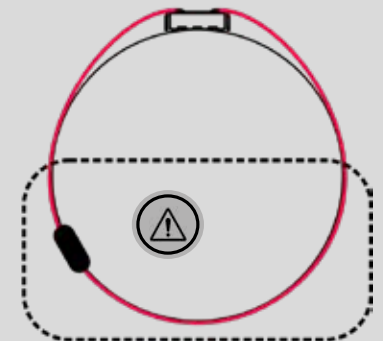
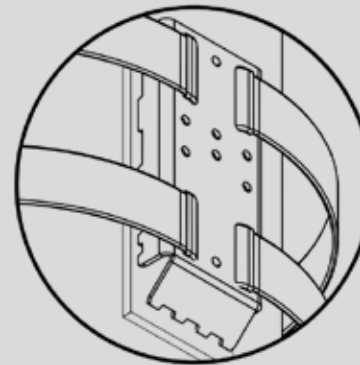
Secure the ratchet  
with a cable tie



Wood Plank  
Tree protector



Plastic tube  
Ratchet tape protector  
D32mm x L160mm



The ratchet strap must be located in an inaccessible position to the user

# 7 NON-RETURNS. TYPES AND CONNECTIONS

Non-Return devices are used to stop and prevent the MCD move back at certain points in the path. It is useful in inclined sections, in entrances or exits of the park or to control the flow of users in ziplines.

Depending on the type of anchorage, there are different types of Non-Returns.

Non-Returns Type AW, VP and IN consist of a folded sheet metal for each of the cases and a piece of silicone, which is valid for any system:

**DIN 7380 Screw**  
**M8x20 (min.)**  
**A2**



**x2**

**DIN 933 Self-Locking nut**  
**M8**  
**8.8**



**x2**

## AW non-return

For LE CLOU wedge adaptor

AW left non-return

LE CLOU Spacer  
Reference : CL-CBUM22

LE CLOU  
wedge adaptor

Anchorage  
+  
anchor wedge  
assembly

Left

Right

Reference :  
CR-NR1-L

Reference :  
CR-NR1-R

## VP non-return

For vertical positioner and anchor  
adapted for trees

Left

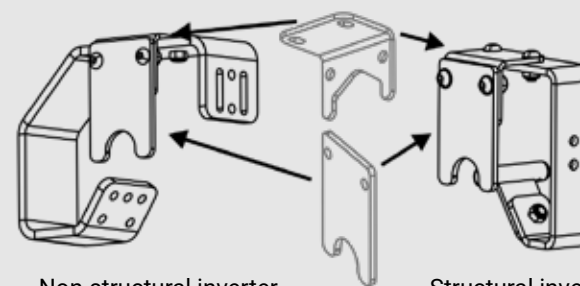
Right

Reference :  
CR-NR2-L

Reference :  
CR-NR2-R

## IN non-return

For Inverters  
Reference: NR3-V1



Non-structural inverter

Structural inverter



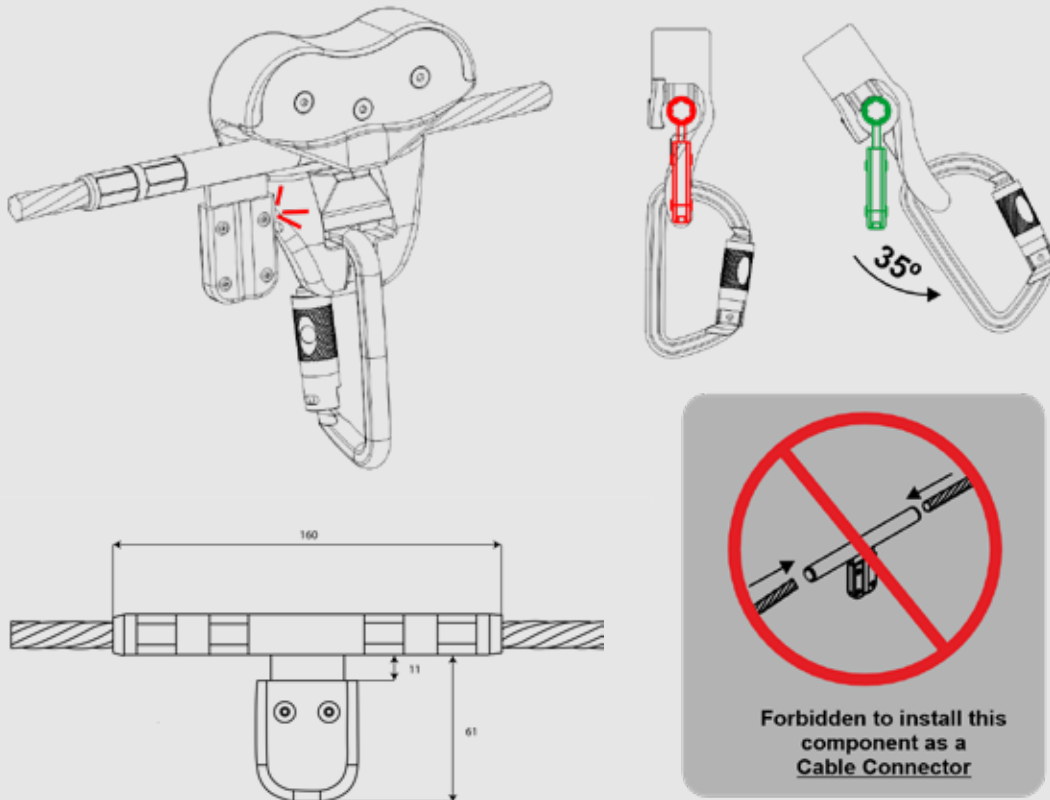
# 7 NON-RETURNS. TYPES AND CONNECTIONS

## Structural non-return

Reference: CR-NR4

The structural non-return is an obstacle to the pulley which must be passed through by turning the MCD 35°.

Its function is to stop the MCD and prevent it from sliding backwards in an inclined section of element for adventure parks. It's used as a structural component to prevent falls. We recommend its installation in games with a slope higher than 6°.



## How to install it ?

The cable crimping must be done with a crimping tool capable of exerting a force of 130 kN.

**Necessary tool:**  
**Manual hydraulic crimping tool**  
**Ex: reference CR-SER**

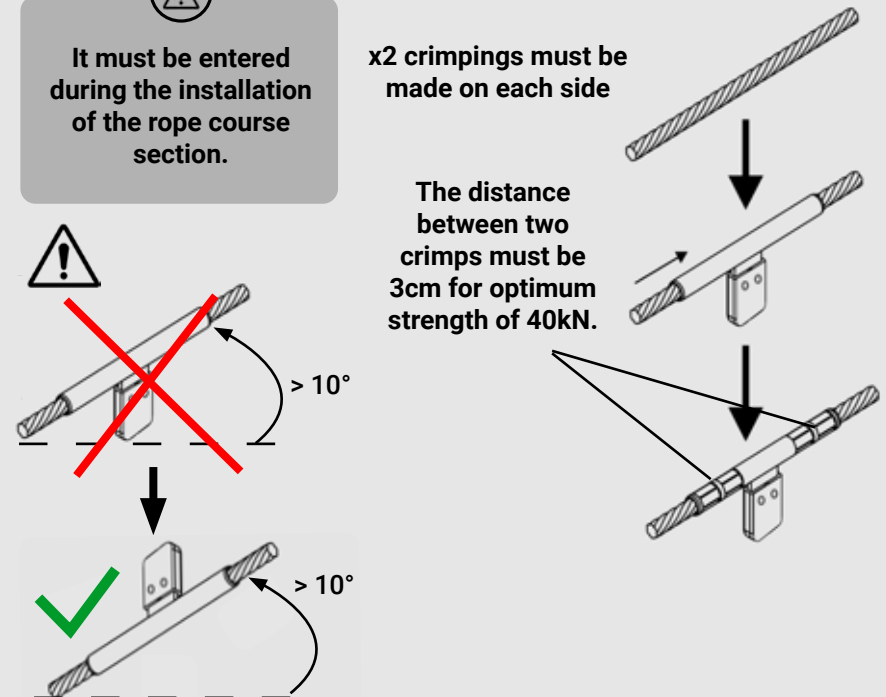
Hexagonal crimping die **K18**  
according to DIN48083  
Reference: CR-MAT



It must be entered during the installation of the rope course section.

x2 crimpings must be made on each side

The distance between two crimps must be 3cm for optimum strength of 40kN.

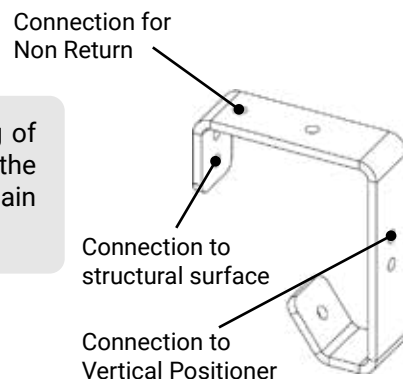


## 8 INVERTER

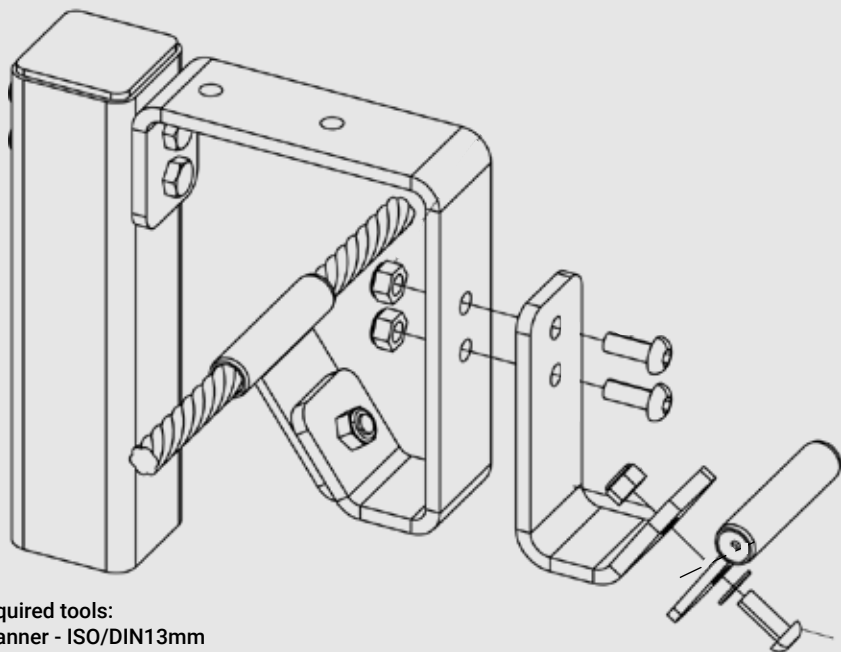
### 8.1 DESCRIPTION

Reference: CR-IN

This element inverts the positioning of the anchorage and allows to adjust the inclination of this to adapt to a certain trajectory of IMN & CLIC-IT CBS.



### 8.2 INVERTER AND VERTICAL POSITIONER ASSEMBLY



Required tools:  
Spanner - ISO/DIN13mm  
Hex Key - 6mm (7/32'')

## 9 CABLE CONNECTOR

### 9.1 DESCRIPTION & INSTRUCTIONS

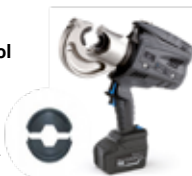
At times during installation there may be a need to connect two ends of the safety line cable.

The cable crimping can only be done between two anchors and on a platform. It must never be done on a course element.

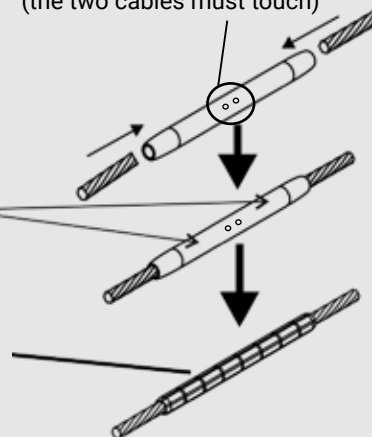
The cable crimping must be done with a crimping tool capable of exerting a force of 130 KN.

**Necessary tool:**  
Manual hydraulic crimping tool  
Ex: reference CR-SER

Hexagonal crimping die **K18**  
according to DIN48083  
Reference: CR-MAT

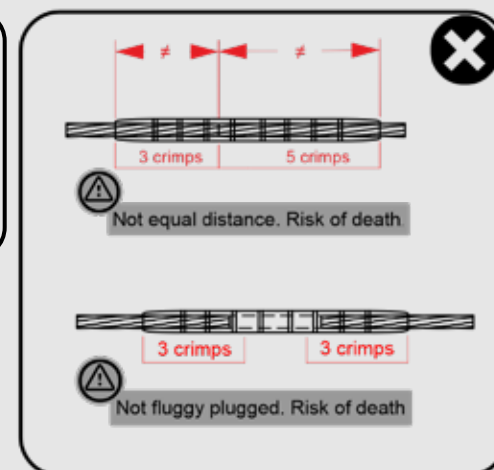
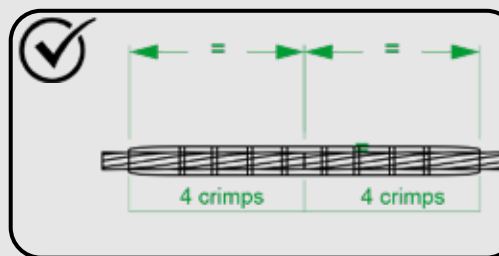


Use the holes  
in the center of the tube  
(the two cables must touch)



4 crimps must be made on  
each cable connection

A total of 8 crimps must be made  
on the crimp sleeve for optimum  
resistance of 40kN



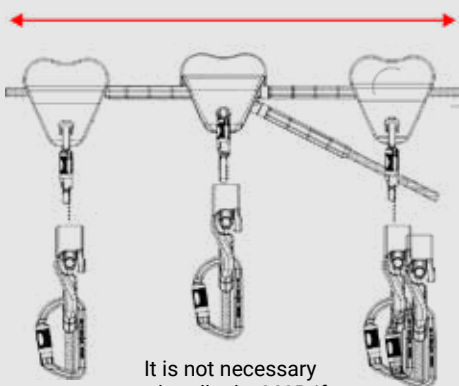
# 10 ROUTE SWAPPER

Reference: RS-V1

Route Swapper is a device designed to alternate between safety line routes in an high rope course. It should be installed at a comfortable height where the user will have to manipulate CLiC-iT RiDER Pulley.

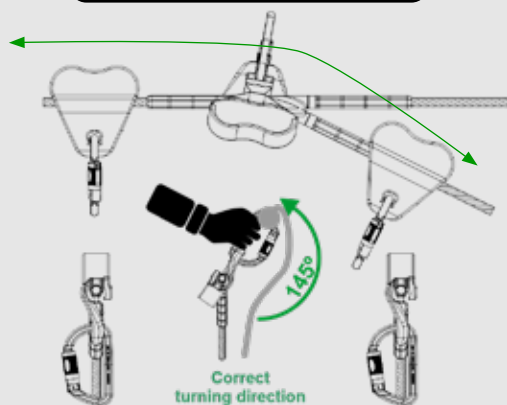
It works by turning the MCD to orient it towards the alternative route or by maintaining original orientation to continue on the route.

## Primary route procedure

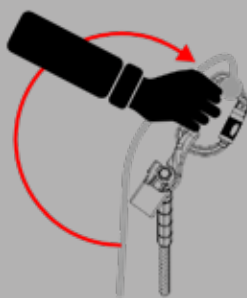


It is not necessary to handle the MCD if the product has been installed at 35° respect to the vertical axis

## Secondary route procedure



Misure of the product:



## Where to install it ?

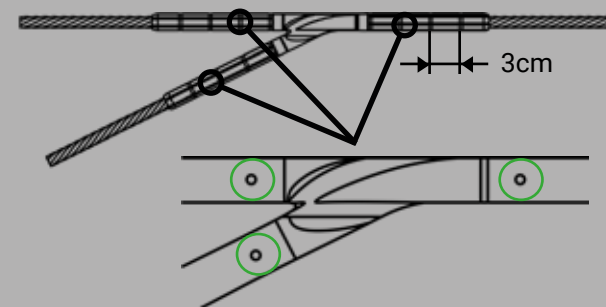


The cable crimping can only be done between two anchors and on a platform. It must never be done on a course element.

## How to install it ?

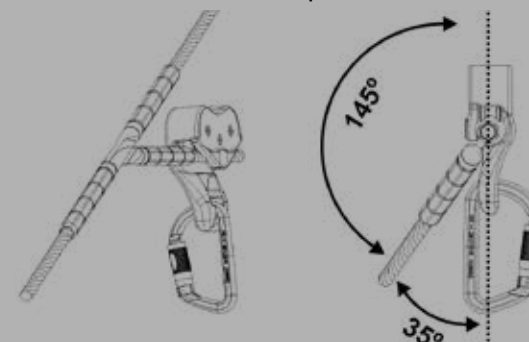
**Necessary tool:**  
Manual hydraulic crimping tool  
Ex: reference CR-SER

Hexagonal crimping die **K18**  
according to DIN48083  
Reference: CR-MAT



4 crimps must be made on each cable connection

Product inclination with respect to the vertical axis :



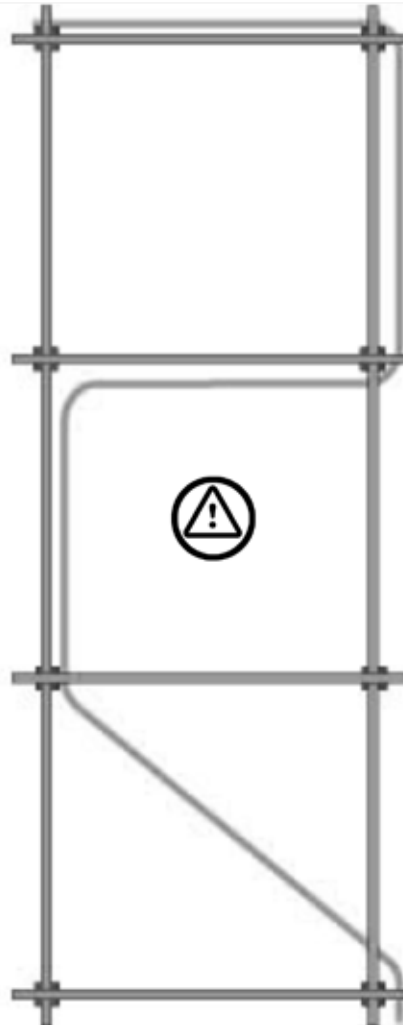
# B. PARCOUR DESIGN

## 1 OPTIMAL PATH

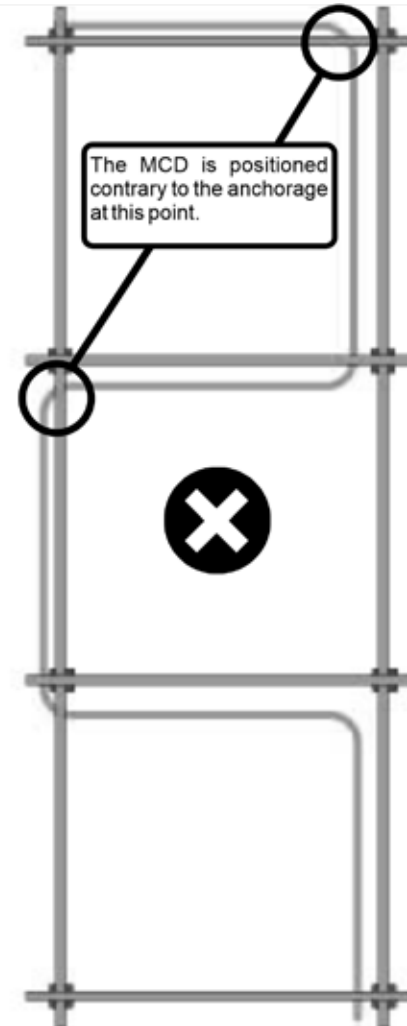
Optimal path. This is the most optimal configuration for the safety line. Installation is done easily and quickly. It is very safe during use.



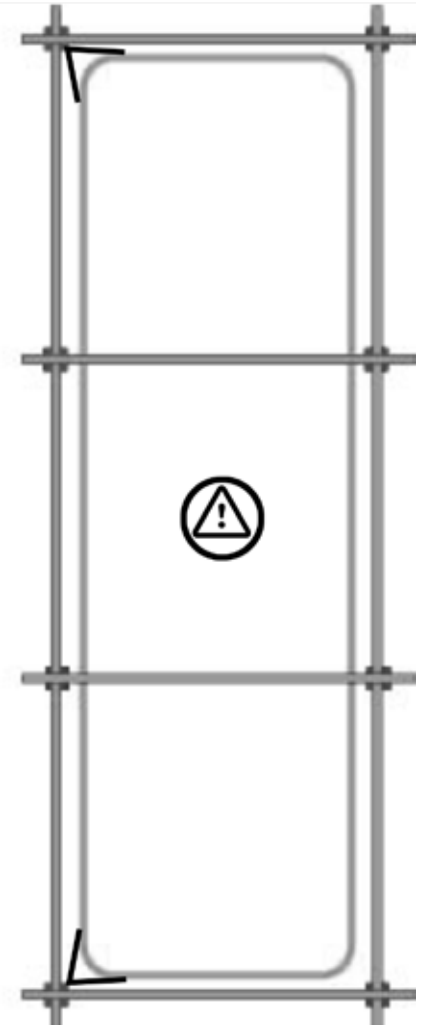
Attention. In configurations where the safety line moves from exterior to interior positions. Each case requires a specific installation



Invalid path. The safety line positioning must be consistent with the path of the MCD. Incorrect points may occur.

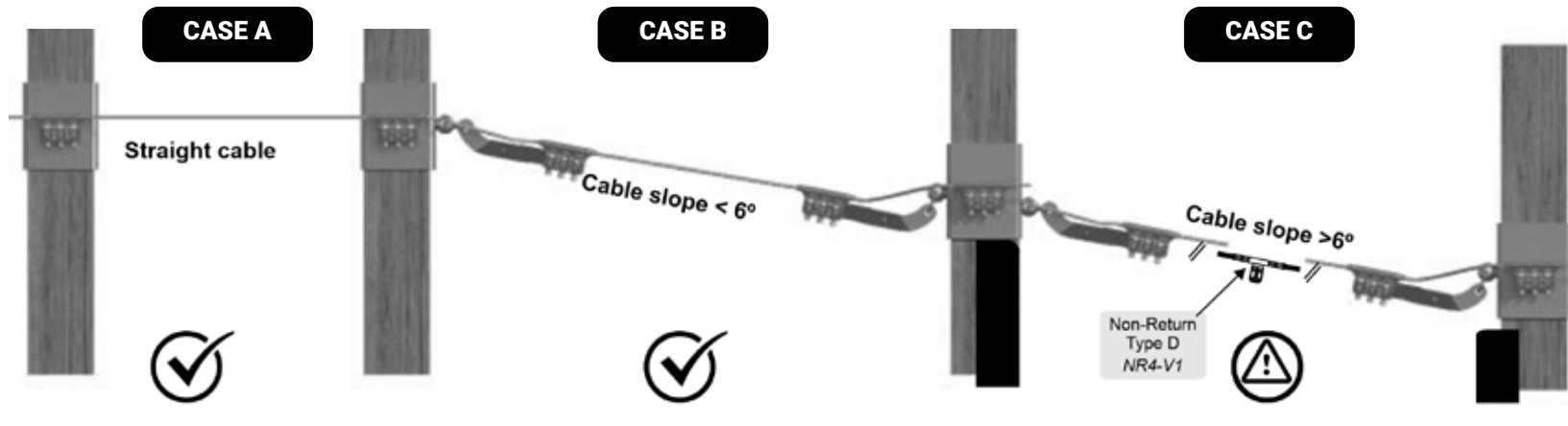


Attention. If the trajectory runs internally a proper curvature must be executed by positioning anchors on articulated arms.



## 2

## INSTALLATION ACCORDING TO DIFFERENT SLOPES & INCLINATIONS



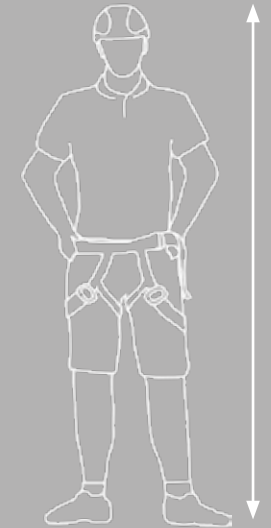
When the cable is relatively straight it is recommended to use Anchor with Anchor Wedge, screwed on the pole directly or indirectly.

When the safety line has less than 6°, an Articulated Arm shall be used to allow the change of inclination in the cable

Sections of more than 6° slope are not recommended because the user can slide towards the post.

In cases where the slope exceeds 6°, it is recommended to install padding on the poles, place an element for adventure park that avoids backward or install Structural Non-Return devices.

This section must be installed with Articulated Arms.

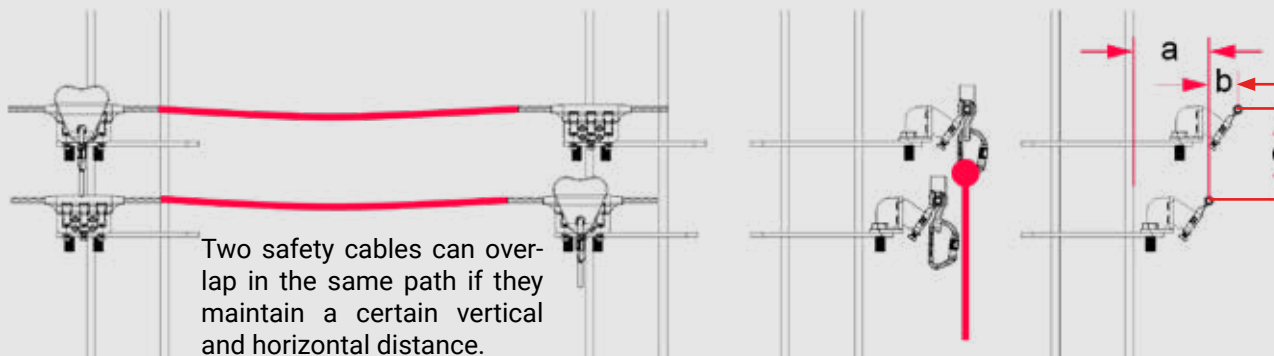


The recommended safety line height for public from 4 to 14 years is 1.50m. For strictly adult circuits it is possible to increase the height up to 2.10 m or even more.

Adjustable lanyard is recommended.

## 3

## SAFETYLINE HEIGHT



**a**  
Standard distance between a safety cable and wall.

>19cm

**b**  
Minimum horizontal distance between safety cables.

>6cm

**c**  
Minimum vertical distance between safety cables.

>20cm



# 4

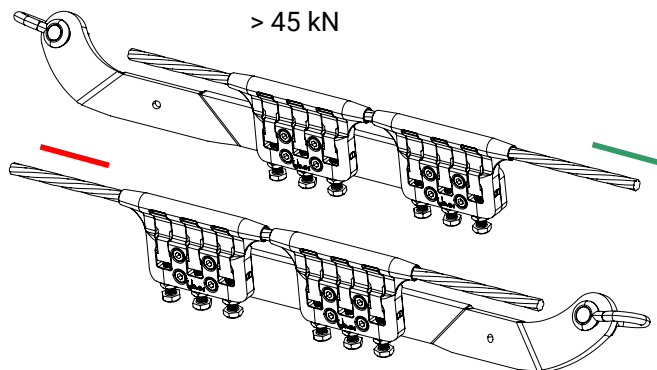
## ZIPLINES

The maximum zipline extension compatible with IMN & CLiC-iT CBS system is **150m**

Zipline arms should be placed between two Double arm. One before entering the zipline and one at the exit.

The user is allowed to hold CLiC-iT RiDER Pulley in ziplines.

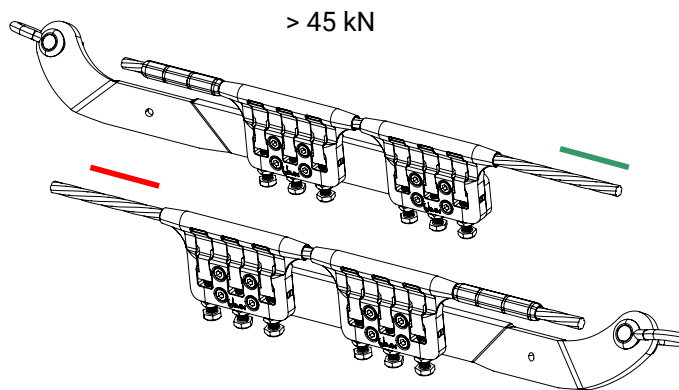
**Less than 40m long**



Double arm without  
crimp sleeve

At the beginning and the end of the zipline

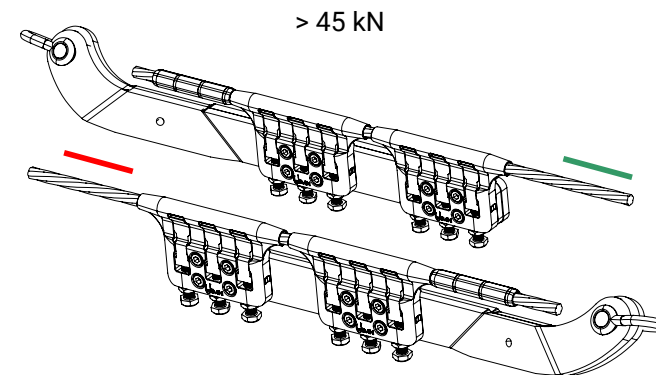
**Between 40m and 90m long**



Double arm with  
crimp sleeve

At the beginning and the end of the zipline

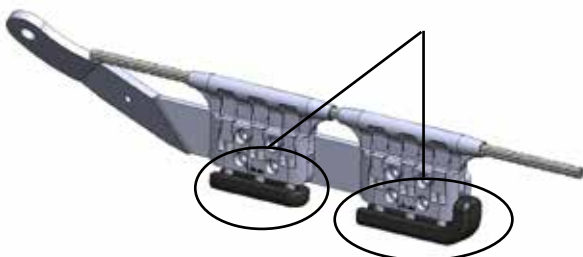
**From 90m to 150m long**



Double arm with  
crimp sleeve

At the beginning and the end of the zipline

Reference: CR-DA-PRO  
Protection for fixing screws at  
the end of the zipline

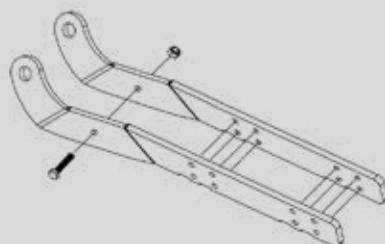


**RECOMMENDED ZIPLINE SLOPE:**

**From 5m to 30m**  
Between 2.8% and 3% slope

**From 30m to 150m**  
Between 2.4% and 2.8% slope

**TWO DOUBLE ARMS CONNECTION**



DIN 933 Screw  
M8x35 (min.)  
A2



**x1**

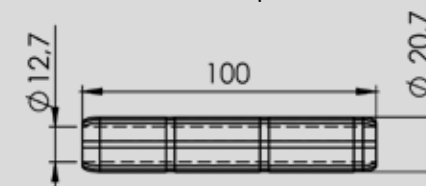
DIN 933 Self-Locking nut  
M8  
8.8



**x1**

**CRIMPING FOR ZIPLINES**

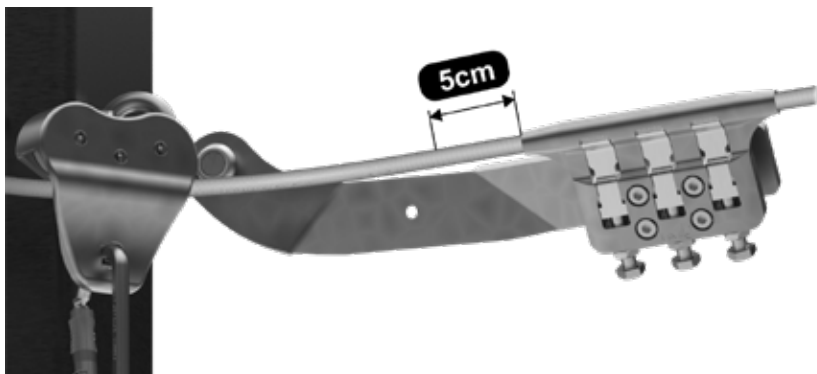
A total of 3 crimpings must be made  
on the crimp sleeve



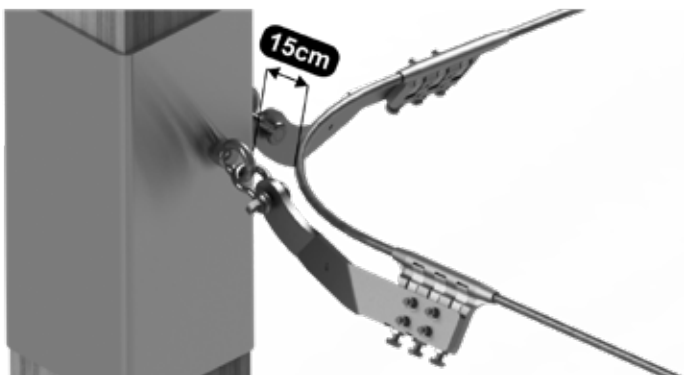
## 5 SAFETYLINE CABLE INSTALLATION



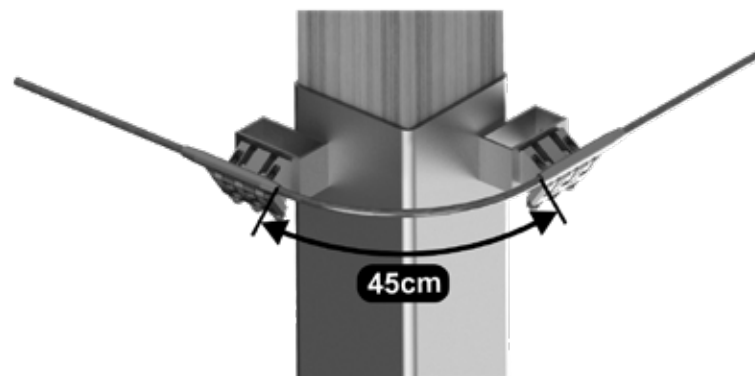
These points must be dimensionally checked according to the annual maintenance protocol present in this manual. Remember to perform a visual inspection prior to the start of the activity.



The curve described by the cable must be 40-45 cm long, measured from the outlet of the Anchor to the entry into the next Anchor.

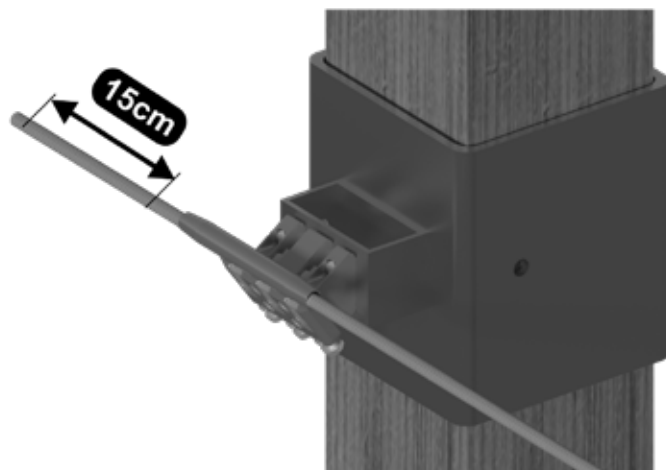


The point where the cable enters the Anchor must be at least 5 cm long in straight extension with respect to the direction of the Anchor, to prevent the MCD from hitting the Anchor. These two points must be marked in order to carry out inspections and check that the cable does not slide.



It must be ensured that the cable curve is separated from the structural element (pole or other game elements), at least 15 cm, to avoid possible MCD collisions.

At the anchorage points where the curve is resolved using Articulated Arms, it must be ensured that all connecting elements, including structural elements, support a minimum load of 20kN.



At the safety line terminals, both at the beginning and at the end, we must leave at least 15 cm of free cable that leaves in excess of the Anchor cylinder. At these two endpoints, one additional Anchor must be installed.

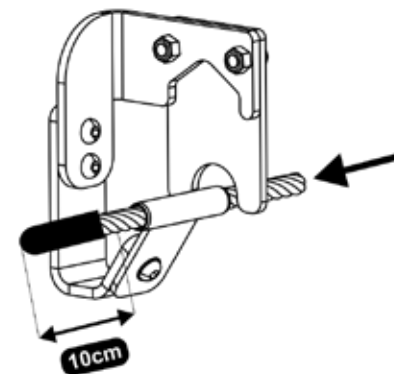


At the beginning and end of the rope course should also be inspected to check that has not suffered some kind of displacement due to an improper screw tightening or some other defect. For such checks it is useful to make marks on the cable to notice possible sliding.



The ends of the safety cable must be protected by a heat shrinkable plastic plug that fits the cable. A space of 10cm must be left from the Anchor element to the plastic termination.

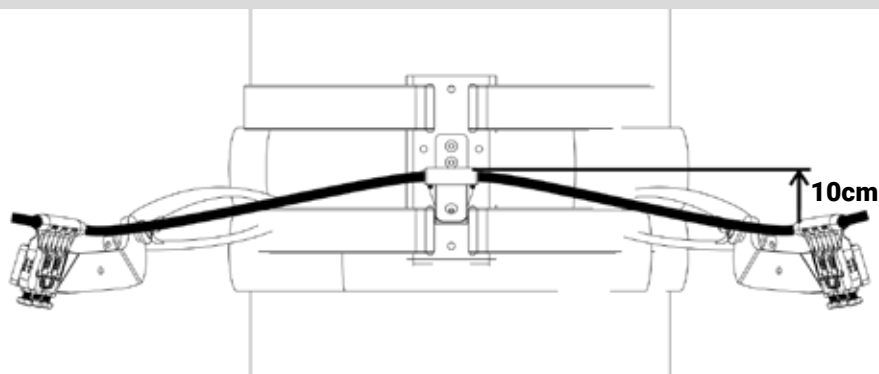
At the beginning and at the end of the rope course, a device Non Return must be placed in the opposite direction to stop the MCD.



In situations where the safety cable has a large curve, the Positioners is used to provide stability to the trajectory.



In tree installations an Vertical Positioner should be used 10cm approximately above the arms to properly guide the safety cable.



# C. RESPONSABILITY & GENERAL RECOMENDATIONS

IMN & CLiC-iT Continuous Belay System components are intended for activities involving a risk to safety and health. Both the installation and the use of this product must respect the specifications provided by the manufacturer in this manual. In addition, the user must respect the preliminary usage indications of monitors and instructors. In short, both the user and the installer are responsible for their decisions, actions and finally for their security.

DEHONDT SARL & IMN are not liable for direct, indirect, accidental or any other consequences occurring or due to the use of its products. DEHONDT SARL & IMN waive any responsibility if the storage, transport, use, maintenance and cleaning instructions are not met.

## Before performing an installation make sure:

- Accept the intrinsic risks of the installation and its use.
- Read and understand all the instructions in this manual.
- Receive all the specific training for the installation and use of all the elements of the lifeline.
- To know and be accustomed to the use of these equipments and to acquire all the knowledge on the performances and limitations of these.
- Check the correct condition of the constituent products for installation.
- Have the necessary tools and material for installation.
- Ensure the viability of the medium for the installation of the system.



Check the correct orientation of the mobile devices and the appropriate conditions of the CLiC-iT RiDER Pulley.



During the maintenance and control of safety line elements, special attention should be paid to the points where direction changes.



Store the MCDs in a cool, dry place and free of chemical agents to avoid deterioration. Avoid unnecessary exposure to UV light.



This product should be used by users trained for the use and recognition of risks related to the activity. And under visual control of competent and responsible personnel.

## Before the first use make sure:

- The manufacturer has previously checked the technical and safety parameters to guarantee the installation quality to the customer.
- To have the personal protective equipment (PPE) necessary for the development of the activity. And make sure these are in good condition.
- Have read the operating and safety instructions in this manual.
- Have previously received the manufacturer's training and initial briefing.

- Failure to comply with these instructions could cause serious or fatal physical harm
- If this product is resold as new in another country, the present notice should be translated in the language of the country of destination

## 1 FURTHER INFORMATIONS

The use and storage temperature range should be between - 10 and +50°C. Outside this temperature range, the product resistance could be affected.

Avoid any rubbing on abrasive or sharp areas which may damage the product.

Damp equipment, or which has frozen up, may not operate properly. These products must be thoroughly checked annually by a qualified professional with a prior written certification from SARL DEHONDT & IMN. It is forbidden to modify or repair these products yourself without prior training and written authorisation from SARL DEHONDT or IMN.

## 2 CAUTION

Climbing and using personal protective equipment carry inherent risks, regardless of the safety equipment being used. Falls of any kind can lead to serious injury or death.

Among other risks, neck entrapment is one of the risks inherent to this activity.

There are many factors that have to be taken into consideration and contribute to raising or lowering the risk of neck entrapment, including but not limited to the following:

- Hardware : Design of the park, PPE
- Operation : Fitting PPE to participant, training of the staff, briefing, supervision, quality of rescue / evacuation.

## 3 TRAINING OF THE STAFF

All staff members must be aware of their responsibilities in order to establish a safe environment. They must be properly trained in assist and rescue techniques as well as in briefing and coaching methods.

All staff must receive professional briefing regularly in which all information for the proper operation of the park is conveyed.

Assessments of the staffs ability to perform competent rescue procedures and conduct proper and complete guest briefings must be done on a regular basis.

The awareness of all involved risks throughout the park must be raised within your instructor and rescue team. The staff must know all possible dangers associated with using life safety systems and how different components interact with each other.

A helpful and supportive attitude towards the guests is important.

## 4 SUPERVISION

The staff team must be vigilant, have taken part in the training process and is required to have experience in supervising the course. Good supervision covering all parts of the course must be ensured. The rescue team must be prepared and capable of reacting quickly in case of emergency and have good and fast access to all parts of the course. All instructors should carry a system or device for lifting, not just rescuers or rescue teams. Participants who faced difficulties during the briefing must be given additional attention and helped, verbally or physically, if needed. Participants should not be left alone on a course. Enhanced supervision must be in place where the participants are faced with special circumstances (zipline, Tarzan swing, etc).



# D. CONTROL AND MAINTENANCE SHEET

The equipment must be functionally checked after each use and periodically. An inspection log must be completed every 12 months, and after any relevant event occurring at the installation (shocks, rescues, sudden changes in environmental conditions, structural modifications to the plant, etc.).

To perform the installation inspection, read and use the following maintenance table:

## MANUFACTURERS:

**SARL DEHONDT CLiC-iT**  
5 rue des Terres (Cellule 7)  
51420 CERNAY-LES-REIMS (France)

**INSTALACIONES EN MEDIO NATURAL S.L**  
Avda Mairena del Aljarafe, N° 34-B  
CP 41110 Bollullos de la Mitación, Sevilla (Spain)

## INSTALLATION NAME:

User identification:

Name:

Address:

Tax Number:

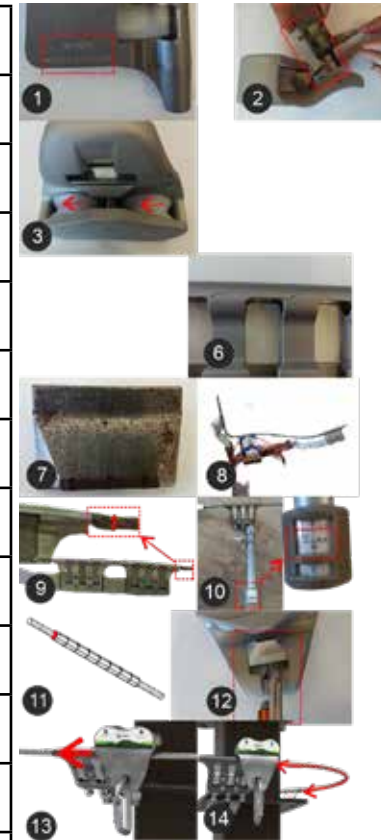
Model:

Serial Number:

Purchase date:

Date of first use:

				<b>1</b> MCD and CBS Anchor serial number readability check.
				<b>2</b> Checking of MCD wear ( Free space between Locking Part and Plate > 7,5mm)
				<b>3</b> Checking the correct operation of MCD wheels
				<b>4</b> Check that components of specified qualities are being used. And tools used are suitable for installation.
				<b>5</b> Check the correct condition of all components before installation
				<b>6</b> Check that IMN & CLiC-IT CBS anchorages have not suffered deformations due to shocks, deformations due to overstress in the screw housings or in the hole where the safety cable passes.
				<b>7</b> Corrosion check on MCD components.
				<b>8</b> Corrosion check on every installed IMN&CLiC-iT CBS devices (Anchorages, Arms, Non Returns, etc...)
				<b>9</b> Checking cable displacements at the beginning and end of Double Arms intended for ziplines.
				<b>10</b> Checking the tightness of the M10 screws in CBS Anchors ( = 40 N*m).
				<b>11</b> Checking for cable displacement at junctions with Cable Connectors.
				<b>Once IMN &amp; CLiC-IT CBS is installed, must be checked:</b>
				<b>12</b> The lock of CLiC-IT Rider Pulley works properly when carabiner is inserted and removed
				<b>13</b> The passage of the pulley in the anchor points of IMN & CLiC-IT CBS are smooth and without relevant collisions.
				<b>14</b> There are no collisions with the structure. And the dimensional specifications described in the manual are met.
<b>GOOD CONDITION</b>	<b>TO PAY ATTENTION</b>	<b>NEED FIXING</b>	<b>INOPERATIVE</b>	



MCD refers to  
CLiC-IT RiDER Pulley



**1**  
MCD and CBS Anchor serial number readability check.



**2**  
Checking of MCD wear (Free space between Locking Part and Plate > 7,5mm)



**3**  
Checking the correct operation of MCD wheels



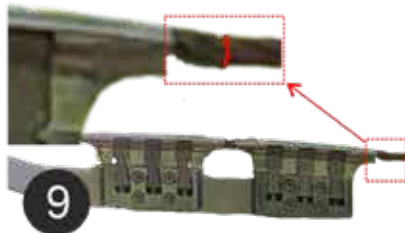
**6**  
Check that IMN & CLiC-IT CBS anchorages have not suffered deformations due to shocks, deformations due to overstress in the screw housings or in the hole where the safety cable passes.



**7**  
Corrosion check on MCD components.



**8**  
Corrosion check on every installed IMN & CLiC-IT CBS devices (Anchorages, Arms, Non Returns, etc...)



**9**  
Checking cable displacements at the beginning and end of Double Arms intended for ziplines.



**10**  
Checking the tightness of the M10 screws in CBS Anchors (= 40 N\*m).



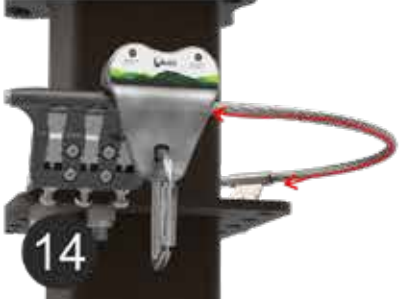
**11**  
Checking for cable displacement at junctions with Cable Connectors.



**12**  
The lock of CLiC-IT Rider Pulley works properly when carabiner is inserted and removed



The passage of the pulley in the anchor points of IMN & CLiC-IT CBS are smooth and without relevant collisions.



**14**  
There are no collisions with the structure. And the dimensional specifications described in the manual are met.

Installation history. (disassemblies, replacements, environmental accidents, repairs ...)

Description	Date

Comments regarding product conditions and usability:


MAINTENANCE CONCLUSION:

SUITABLE ☐

UNSUITABLE ☐

Inspected by:  
Company name:  
Signature:

Date:

Next inspection date:

\_\_\_/\_\_\_/\_\_\_