

LCD

Lowering Control Device

The CMI LCD double barrel, fixed bollard lowering device is a medium-duty lowering device that fits securely to your tree using two heavy-duty ratchet tie-down straps (included). The entire system can be mounted by one person utilizing the top attachment points with the CMI LCD strap (sold separately) as a suspension point. Two bollards allow the use of a single or two ropes at once. Tested to over 40,000 lbs, each barrel of the LCD is sure to handle some of the more demanding jobs.

Please refer to the following pictures as suggested use/ rigging methods.



The LCD should only be attached to the tree as shown using two, 2" heavy duty ratchet straps. Be sure hooks are engaged completely in the pockets of the LCD upon tightening. Straps should be tight enough that there is no movement of the LCD up or down the tree. Note location of two stainless loops at top.

Note that ratchet strap hooks should always face outward to avoid any potential for the hooks slipping off if placed inward. The straps should also always be as straight as possible around the tree. When tightening the straps, ensure the webbing enters the ratchet evenly so as not to prematurely wear the strap, thus creating potential weak points in the strap that could fail. Straps should be inspected frequently and after every use.



Note: In all three illustrations shown, the rope is guided into the LCD by the two rope leaders on the top of the LCD. These leaders help to keep the rope close to the base of the lowering bollards as that is where the most strength is at on the LCD for lowering applications.

The three illustrations on this page show various single rope configurations. It is recommended, though not always necessary, that the rope come into the bollard as straight as possible, usually from the outside. *Note: the closer the rope remains to the base of the bollard, the stronger the system is.*





A CMI Rope Jack may be added to the system to create lift or pre tension lines. Use either loop at the top of the LCD to connect the Rope Jack and ensure everything is in good alignment. Capture the progress with wraps around the bollards. You can then lock the rope off and remove the Rope Jack to lower.

This illustration shows a double rope configuration. With double rope use, the rope has to come in on the outside of the bollards to avoid rope on rope rubbing.



If a tree is not present, the LCD may be attached to a pintle hitch mounting plate using four 1/2 x 1.5" grade 8 bolts and nuts (not supplied). Note: using 4, grade 8 bolts would yield 68,000 lbs shear force to break the LCD away from the pintle plate. Always use a 2" receiver hitch when using this method.



*** CAUTION ***

Wrapping the rope in a figure 8 as shown is not recommended as it creates rope on rope rubbing in the center.

The LCD strap (sold separately) makes for an easy way to mount the LCD by yourself. Simply hang the LCD strap, add two biners to the loops on the strap and then hang the LCD from the strap. Note: the LCD strap is only used as an accessory to hang the LCD. DO NOT USE THE LCD STRAP WITHOUT USING TWO RATCHET STRAPS AS SHOWN PREVIOUSLY. Using the LCD strap alone may result in serious injury or even death! For more information on the LCD strap please visit our website for more information.



! FOR YOUR OWN SAFETY, PLEASE READ !

- ◆ Any person using CMI equipment in any manner is personally responsible for learning the proper techniques through personal instruction by an instructor competent in all safety techniques and backup systems.
- ◆ There are no warranties which extend beyond the description on the face hereof. This product is sold "as is" without implied warranties of fitness or merchantability.
- ◆ CMI cannot be responsible in any way for the misuse of the equipment described herein.

HELPFUL TIP

Before mounting the LCD, select the best place on the tree that has little to no stem taper. If the tree is being removed, simply shaping an area near the base of the tree to mount the LCD to will suffice.

LCD weight: 16.90 lbs/ 7.66 kg

Size: 12" x 12" x 6" deep

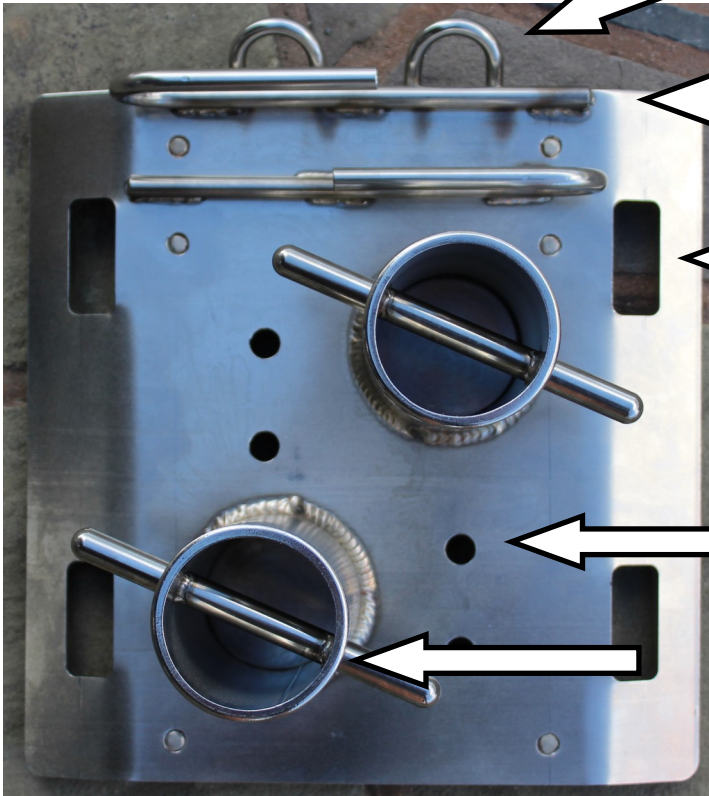
Accessory rings to for use of CMI Rope Jack or for mounting with LCD strap.

Rope leaders to help keep rope as close to the base plate as possible.

Anchor slots for use with 2" heavy duty ratchet straps.

1/2" hole for use with grade 8 1/2" bolts to mount to pintle plate. 4 holes per LCD

Lowering bollard for lowering loads safely to the ground. *Note: keep rope as close to the plate as possible while in use. 2 7/8" diameter bollards.*



WLL: 6000 lbs/ 26kN

19mm or 3/4" max rope diameter

Proudly made in the USA by:

Cmi

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WARNING

Any activities using this type of equipment are inherently dangerous. This pamphlet serves as a general guide and as such it is impossible to cover every single use in detail. The end user of this product should seek professional training from a person competent to do so in order to safely use this product. If you are not able or not in a position to accept responsibility for your actions, do not use this product. CMI, it's distributors and retailers assume no liability if the end user does not follow instructions accordingly. Only the techniques shown herein are accepted methods of use. Any other use beyond what is shown may result in serious injury or death.

Before using the LCD, the user must be able to assess that the device is adequate for the job at hand. User must ensure that all components of the working system are suitable for the loads applied during use. Poor rigging techniques and shock loading could cause catastrophic failure of this equipment and must be avoided. It is good practice to have a backup system in place where a potential failure could occur. The LCD and any components of the system, including ratchet straps, should be inspected for unusual wear, cracks, etc prior to each use. Remove the LCD from service if any signs of wear or damage are present.

The LCD should only be used with the proper diameter ropes. Do not exceed recommended maximum rope diameters as doing so may exceed working load limits and could cause a catastrophic failure. These figures are based on vertical loads being applied and used as specified within these instructions. Even though the LCD is supplied with a working load limit, it is the users responsibility to ensure that all components used in conjunction with the device are matched equally with their respective working load limits. Do not exceed the lowest rated component within the rigging system. When calculating the rigging system, one must also take into account attachment points and anchors.

- ◆ ***Always use appropriate hand, head and eye protection when using the LCD***
- ◆ ***Be sure to keep body parts, loose clothing and debris away from LCD while in use***
- ◆ ***Never use the LCD for lifting or lowering people as the LCD is not rated as PPE***
- ◆ ***The LCD should be inspected before each use and periodically by someone competent to do so***
- ◆ ***Always know the use history of your equipment. Do not resell for use by a third party after original use***
- ◆ ***Always maintain control of every load until it has safely reached the ground and been untied***
- ◆ ***Avoid damage of LCD by minimizing all, if any free fall distance***
- ◆ ***Retire any and all connecting devices or components if subjected to impact loading***
- ◆ ***Do not stand or allow others to stand beneath the load being lowered***
- ◆ ***Ensure all others are at a safe distance when operating the LCD***
- ◆ ***Never wrap the line around your hands or body parts***
- ◆ ***Always ensure the line can run freely if the line needs to be released in an emergency***

Anyone using the LCD should have proper training and understand these instructions and warnings before use. Failure to do so could result in serious injury or death.