

STEIN



RC-1000 & RC-2000

Please read this document carefully, it gives instructions for the correct use of this product

WARNING

Activities using this type of equipment are inherently dangerous. It is not possible to cover every eventuality relating to the use of this equipment. Purchasers and users of RC devices should seek professional training from a fully qualified and competent instructor prior to engaging in any activity. If you are not able, or not in a position to assume this responsibility, do not use this product. The manufacturer its distributors and retailers do not accept any liability if users do not follow the instructions correctly. Only the techniques shown in the diagrams are authorised. Any other use deviating from those shown may result in serious injury or death.

Prior to each use a complete risk assessment must be carried out to ascertain that the device chosen configures with and is appropriate to the work being undertaken. The RC device chosen must also be compatible with all the other components within the system.

Users must always ensure that all components of the work system are suitable for the foreseeable loadings that may be applied during use. Poor technique and shock loading may cause catastrophic failure of this equipment and should be avoided. Where a failure of the product may occur a suitable backup system must be installed and used. All components of the system used with the device must be inspected before and after each lowering/lifting operation. Retire the RC device from use if there are any tactile or visual signs of wear or damage. The retention devices must also be inspected & checked for both tension and wear after each lowering or lifting operation to ensure they are securely attached to the RC device and the mounting point.

The RC Lowering Devices should only ever be used with the correct diameter of rope, You must never exceed the recommended maximum diameters. Each device has a Working Load Limit (WLL) – This is the maximum load allowed to be applied to the device either for lifting or lowering above which catastrophic failure will occur. These values are based on a vertical load being applied and used as specified within these instructions.

Although these devices have been issued with a Working Load Limit (WLL) it is your responsibility to ensure that all the components used in conjunction with the device are matched equally with their Working Load Limit (WLL) or Safety Factor (SF) or Safe Working Load (SWL). If you are unsure on a products individual specifications you should contact the manufacturer. You should never exceed the lowest rated section or component within a rigging system. When calculating any rigging system the strength of the anchor and attachment points must also be taken into account.

- RC devices must never be used for lifting or lowering people. They are not intended or rated for use as Personal Protective Equipment. (PPE)
- Always keep body parts, loose clothing, and debris away from the device when in use.
- Always use appropriate hand protection when operating the device.
- When holding the working line NEVER wrap the line around your hands or other body parts. Always ensure it can run freely in case you need to release the line in an emergency.
- Do not stand or allow others to stand directly under the load being lowered or under the work being performed above. Ensure users and other persons are working and operating the device from a safe distance.
- Any potential shock loading must always be kept to an absolute minimum when using the RC device as with all rigging equipment.
- All connecting devices or components must be retired from use if they are subjected to impact loading.
- To avoid damage to the device you must minimise all if any free fall distance.
- Always maintain control of any lowered load.
- All pivot points and moving parts must be lubricated regularly using a suitable lubrication spray. Ensure no excess lubrication comes into contact with any area of the textile fixings or working line. Remove all excess lubrication immediately.
- Products covered under these instructions should never be resold or used by a third party after it has been used by the original purchaser.
- The manufacturer recommends this product should be inspected prior to use along with periodically independent inspection in line with UK LOLER 1998.

As part of any method statement we recommend that all users of this equipment must be given a copy of these instructions. They must read them, understand them and explicitly follow all instructions and cautions attached. Any person using this equipment should be fully trained and competent in its use before carrying out any rigging operations.

Product Identification and Markings

Each RC Device is fitted with a Product Identification label as shown below.

| | |
|---|--------------------------------------|
| 1 | Fletcher Stewart (Stockport) Limited |
| 2 | STEIN |
| 3 | RC-1000 |
| 4 | Lowering Device |
| 5 | 1000kg WLL |
| 6 | 3.6kg |
| 7 | RC-1000- <i>serial number</i> |
| 8 | (United Kingdom) or (USA) |

- 1 Manufacturers Name
- 2 Trademark
- 3 Product Model Number
- 4 Type Of Use
- 5 Working Load Limit
- 6 RC Device Weight
- 7 Individual Serial Number
- 8 Country of Origin

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| Model | Maximum Rope Diameter | Working Load Limit (WLL) |
|---------|-----------------------|--------------------------|
| RC-1000 | 14mm | 1000kg |
| RC-2000 | 16mm | 2000kg |

- You must ascertain that the device chosen is appropriate to the work being undertaken.
- The Working Load Limit is based on using a sufficiently rated Dead-Eye Sling or Whoopie Sling.
- If you are using both the Top Attachment Point and the Device at the same time the Working Load Limits on both areas should be taken into account. Example: the devices WLL is 1000kg the top attachment point is 200kg so the devices WLL will be reduced down to 800kg.

Product Life

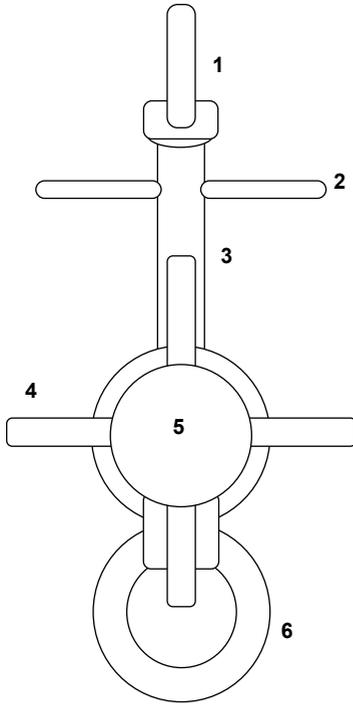
If the product shows tactile or visual signs of wear, chemical contact, abrasion, or crushing it should be retired from use immediately. By misuse it is possible to destroy this product during its first use. These times are for guidance purposes only.

| | |
|-----------------|-------------|
| Daily Use: | 12 months |
| Weekly Use: | max 2-years |
| Occasional Use: | max 5-years |

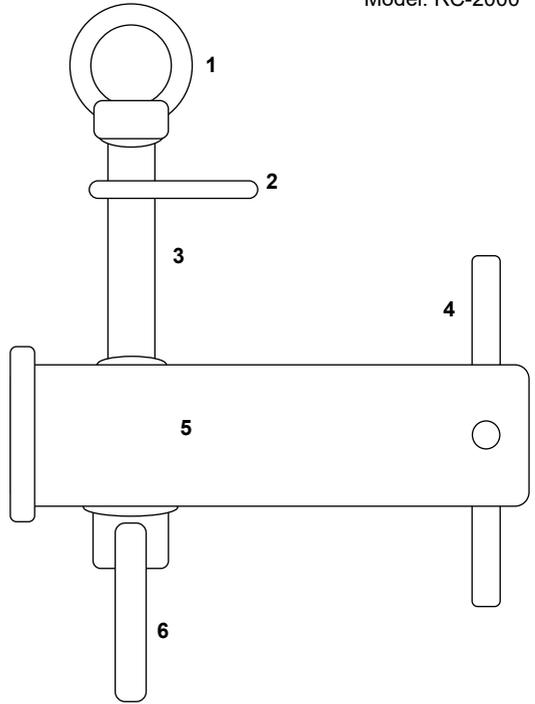
The total maximum life of this product (storage before use + lifetime in use) is limited to 10 years. In good storage conditions this product may be kept for as many as 5 years before the first use without affecting its future duration in use. The working life depends on the frequency and type of use.

Part Identification

Model: RC-1000
Model: RC-2000



Front View

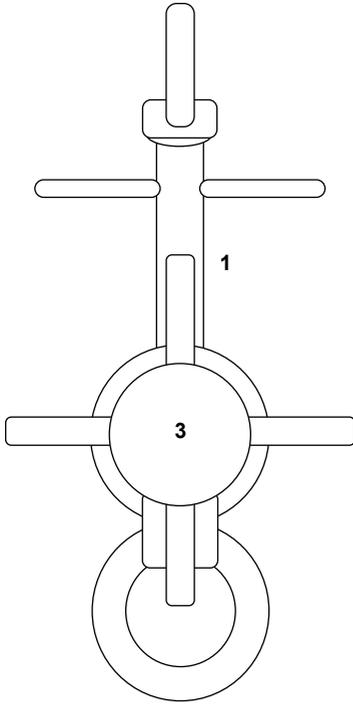


Side View

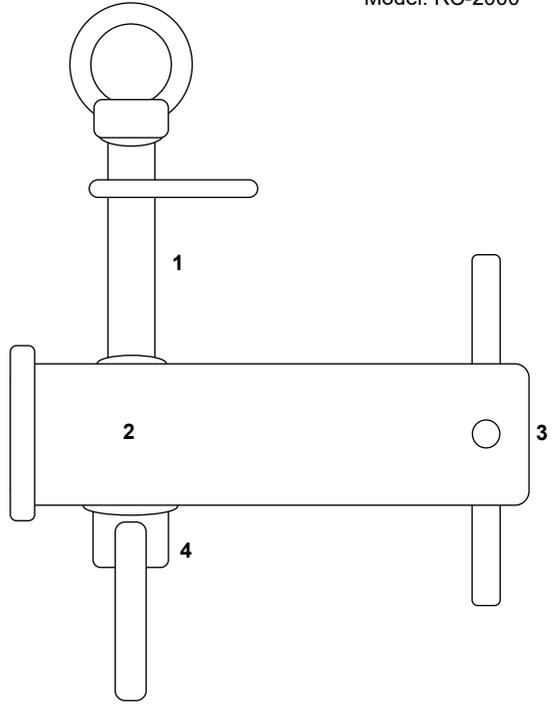
- 1 Top Attachment Point (200kg WLL)
- 2 Entry Fairlead (Rope Guide)
- 3 Anchor Shaft
- 4 Exit Fairlead
(RC-1000 is only fitted with Vertical Exit Fairleads)
- 5 Bollard
- 6 Base Anchor Point

Product Information and Warning Labels

Model: RC-1000
Model: RC-2000



Front View



Side View

Model: RC-1000

- 1 Product Warning Label (RC-L2001)
- 2 Product Information Label (RC-L4001) (Located inside the Bollard)
- 3 Product Identification Label (RC-L1000)
- 4 Anchor Point Label (RC-L2002)

WARNING:

It is important that all Safety Labels are visible and present. It is recommended that you replace these immediately if they are removed or un-readable. New labels can be ordered using the appropriate part numbers.

Model: RC-2000

- 1 Product Warning Label (RC-L2001)
- 2 Product Information Label (RC-L4002) (Located inside the Bollard)
- 3 Product Identification Label (RC-L2000)
- 4 Anchor Point Label (RC-L2002)

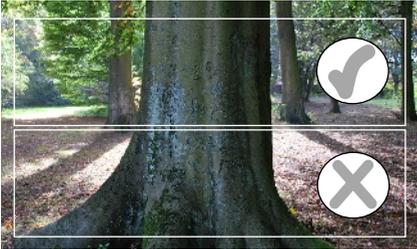
Attachment Points

The top attachment point has a Working Load Limit (WLL) of 200kg. This point can be used to attach a pre-tensioning system or a lifting system such as a fiddle block. This attachment point is used to support the weight of the device when mounting or removing the device.

The base anchor point takes the strain of the device during use. This should be secured using a sufficiently rated Dead-Eye or Whoopie Sling connected directly to the anchor point. This must have a tactile and visual inspection for both tension and wear after each lowering/lifting operation to ensure it is securely attached to the device and the mounting point.

Device Mounting Instructions

ENSURE THE WORK AREA IS FREE & CLEAR OF ANY OBSTACLES AND A FULL RISK ASSESSMENTS HAS BEEN UNDERTAKEN BEFORE USING THE RC DEVICE



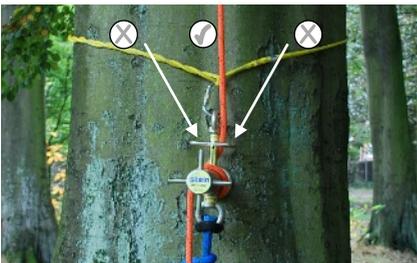
- (1) When selecting the best place to mount the device try to locate an area where there is little or no stem taper. If the tree is being removed it may be possible to achieve this by shaping the stem.



- (2) Attach a suitable sling above where the device is to be mounted.
- (3) Attach a suitable karabiner to the sling
- (4) Using the top attachment point attach the lowering device to the karabiner.
- (5) Ensure the device is suspended at a height where it can be operated safely.



- (6) Secure the device using a sufficiently rated Dead-Eye or Whoopie Sling. This is to be connected directly to the base anchor point as shown in the diagram. If you are using a Dead-Eye tie off using a suitable hitch.



- (7) With both slings now in position, make sure the working line enters the device parallel with the anchor shaft. Correct alignment is not always automatic. This can be overcome by off-setting the top or bottom sling, or by setting/attaching an additional fairlead in the lowering system.

Routing The Working Line - Applicable to RC-1000 and RC-2000 lowering devices

The following instructions demonstrate the correct routing of the working line. Never use alternative routing as this may result in serious injury or death.



(1)

Attach the device as previously described



(2)

Bring the working line down vertically through the entry fairlead



(3)

Twist the device sideways to create a gap at the rear of the device



(4)

Pass the working line through the gap to the opposite side of the device



(5)

The working line should now be through the entry fairlead and located on the opposite side



(6)

Pull the working line tight and bring the line round and up over the bollard



(7)

Add more wraps to create extra friction.



(8)

Upon applying the appropriate number of wraps, ensure the working line exits the bollard via an exit-fairlead.

If at any time you need to suspend/lock a load, simply wrap the working line a minimum of 4 times around the bollard and finish by applying 2 half hitches (4 in total) on any two opposing exit-fairleads.

Once you are in a position to commence lowering, stand well clear of the drop zone ensuring the working line will not be obstructed by the item being lowered. Where a load is being cut from above the rigging pivot point the operator should draw slack out of the system. This can be achieved by quickly pulling on the working line as the branch/log begins to fold and then release the working line as normal as the load passes the rigging point.

If it is necessary to pre-tension the working line tighter than what can be achieved by simply pulling down on it, a mechanical advantage of 3:1 can be achieved by incorporating the Stein RC-3100 Pre-Tension pulley. This pulley has been design specifically to be used with the range of RC Lowering Devices.

