

STEIN



RC-3100

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

Product Description

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

Product Identification and Markings

It is important that the users of this device have an understanding of the markings and are able to identify parts of the device

1 Trademark

2 Product Model Number

3 Working Load Limit

4 Serial Number

5 Type Of Use

6 Read Instructions

7 Country of Origin

8 Manufacturers Name

1 & 2 →

3 →

4 →

5 →

6 →

7 & 8 →

STEIN RC3100

WLL 150kg

SN: YY/BBBB/XXX

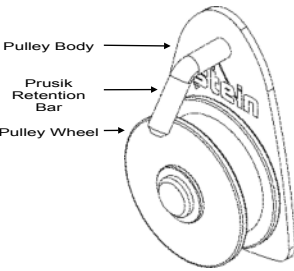
NOT RATED FOR PPE USE

MADE IN THE UK BY ISC

Pulley Body

Prusik Retention Bar

Pulley Wheel



RC-3100 Specification

Working Load Limit: 150kg

Maximum Rope Size: 19mm

Weight: 650g

Pulley Diameter: 94mm

Length: 157mm

Width: 105mm

Depth: 62mm

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.

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 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 operation. Retire the RC-3100 from use if there are any tactile or visual signs of wear or damage.

The RC-3100 should only ever be used with the correct diameter of rope. You must never exceed the recommended maximum diameters. This 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.

- The RC-3100 must never be used for lifting or lowering people. It is 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.
- All moving parts must be lubricated regularly using a suitable lubrication spray. Ensure no excess lubrication comes into contact with the 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.

Routing The Working Line - RC-3001 Lowering Device

The following instructions demonstrate the correct routing of the working line to achieve a 3:1 tensioning system. Only ever use the RC-3100 with a Prusik Loop as demonstrated. Never substitute the prusik for/in favour of a rope-grab.

This process of tensioning should only ever be carried out by one person. More than one person can exceed the RC-3100 WLL (working load limit).

Never try to achieve more tension by impact loading the pulley i.e. tugging repeatedly on the working rope.

If additional tension is required over and above what is possible by using the RC-3100 seek advice.



(1)

Remove as much slack as possible from the working line and tie off using the fairleads on the lowering device.



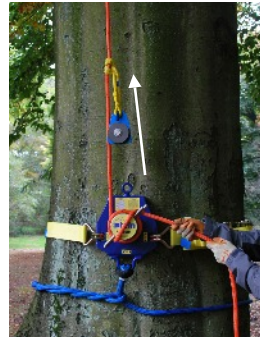
(2)

Attach a suitable prusik loop to the working line using either a 4-wrap or 6-wrap prusik knot. More wraps give extra grip.



(3)

Attach the RC-3100 to the prusik loop by hooking the device onto the loop by means of the prusik retention bar



(4)

Raise the prusik loop and pull up the line then release the working line from the fairleads leaving one wrap around the bollard



(5)

Create a loop in the line and route it over the pulley wheel whilst keeping tension on the line. The line goes in between the retention bar and wheel



(6)

By pulling down vertically on the line exiting the pulley this will start to remove slack from the main line.



(7)

To get extra tension securely hold the end of the working line which enters the pulley, then release the line from the pulley.



(8)

Tie off the working line and repeat the process over until the desired tension has been achieved

Routing The Working Line RC-1000 & RC-2000 Lowering Device

This technique can be used on both the RC-1000 and RC-2000 Lowering Devices. When using the RC-3100 Pre-Tension Pulley with both the RC-1000 and RC-2000 the working line must remain within the top fairlead.

WARNING

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



Inspection Record

The manufacturer recommends this product should be inspected prior to use along with periodically independent inspection in line with UK LOLER 1998.

Model	Serial Number	Purchased from
Comments		Purchase Date
		Date first used

PERIODIC EXAMINATION RECORD

Date	Reason for entry	Examination Notes	Name	signature

Fletcher Stewart (Stockport) Limited
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 Hazel Grove
 Stockport Cheshire SK7 5DA
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