

4) Lifting loads with the EASY RIG

To lift loads with the **EASY RIG**, you will need a prussic and pulley tackle. First, you should belay the rigging rope onto the **EASY RIG** with up to three wraps, depending on the weight of the load that you are going to lift.

From there, you can connect the pulley tackle to the rigging loop, via a prussic, to the sharp end of the rope. You can push the prussic higher with a pole.

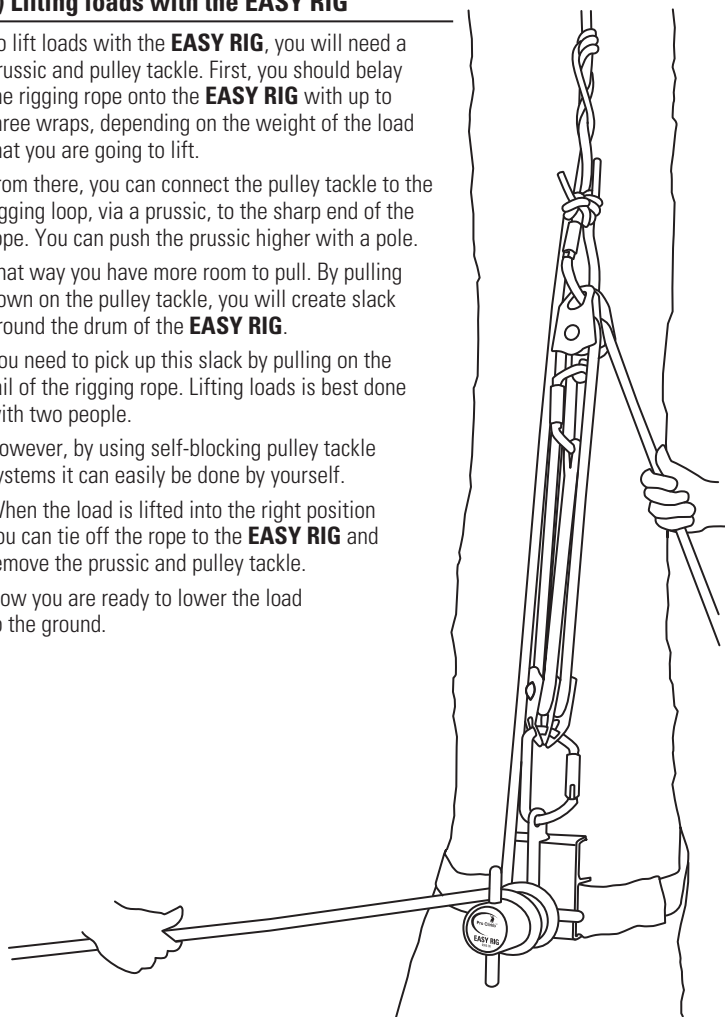
That way you have more room to pull. By pulling down on the pulley tackle, you will create slack around the drum of the **EASY RIG**.

You need to pick up this slack by pulling on the tail of the rigging rope. Lifting loads is best done with two people.

However, by using self-blocking pulley tackle systems it can easily be done by yourself.

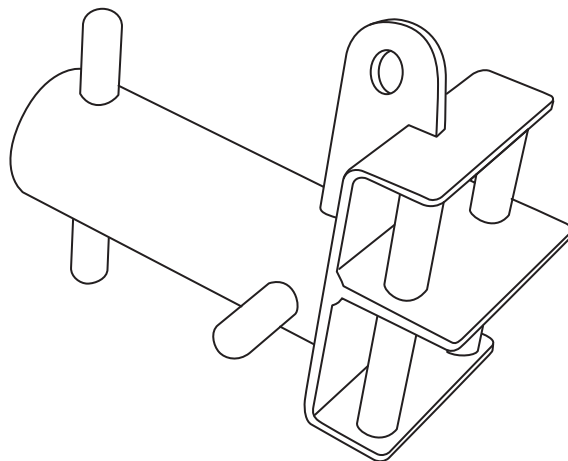
When the load is lifted into the right position you can tie off the rope to the **EASY RIG** and remove the prussic and pulley tackle.

Now you are ready to lower the load to the ground.



EASY RIG

TREE RIGGING / FIXED BOLLARD



USER INSTRUCTIONS

Made in New Zealand
www.proclimb.co.nz

5) Using the EASY RIG in a sky-line and speed-line scenario

There are several ways to use the **EASY RIG** in sky-line and speed-line scenarios. Below we have described two possible scenarios. However, there are other, different options.

Please feel free to contact us at Pro Climb, we are happy to provide further information.

The simplest method is using the **EASY RIG** as a speed-line anchor. In this setup, you attach the **EASY RIG** to a nearby tree that you would like to use as your speed-line anchor.

By using the tree-protection rubber you will not damage the tree being used as your anchor. It is essential to place a pulley above the **EASY RIG** to guide the rope.

At the same time, you can use the pre-tensioning method to reduce the slack in the speed-line. In this scenario, when using the pre-tensioning method, it is important to remember that the rigging loop is only designed to bear the full force of 500kg in a straight upwards pull.

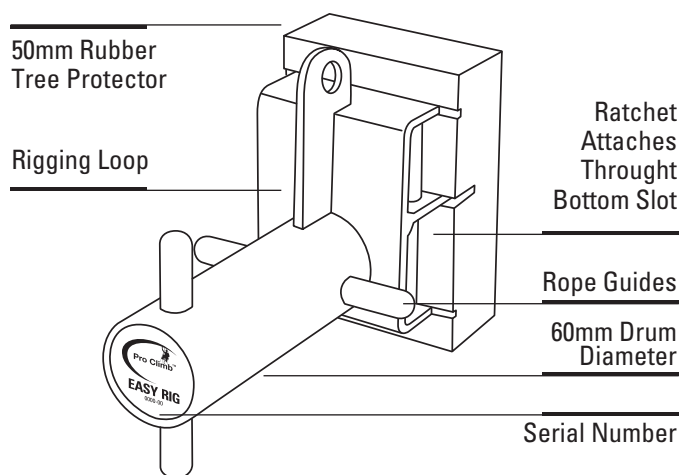
The second scenario involves a sky-line. Here you can use two **EASY RIG**'s which are both attached to the base of the tree. One **EASY RIG** can then be used to anchor the sky-line and the other can be used to lower the load into the sky-line.

By using the pre-tensioning and lifting techniques described above, the sky-line can be tensioned after the load has been caught in the lowering rope. This will prevent shock loading of the sky-line.

Please note: *All techniques described in this manual are recognised and approved working methods of the arboricultural industry. It is important to learn and trial these techniques in a safe environment. Professional tree rigging is dangerous work that needs experience and training. This manual is designed to show possibilities but is not intended to replace proper training.*

The **EASY RIG** is a friction device used in tree work for lowering tree sections like branches and trunk wood. Loads should not exceed 500kg.

The **EASY RIG** is designed with a safety factor of 10:1, exceeding international arboricultural practice requirements. The drum diameter of the **EASY RIG** is 60mm. To allow for a 4:1 bend ratio following best practice the rigging rope should not exceed 15mm in diameter.



Max Load:	<500kg
Safety Factor:	10:1
Drum Ø:	60mm
Max Rope Ø:	<15mm
Bend Ratio:	4:1

Please feel free to contact us with feedback, if you have any questions or need further information: info@proclimb.co.nz



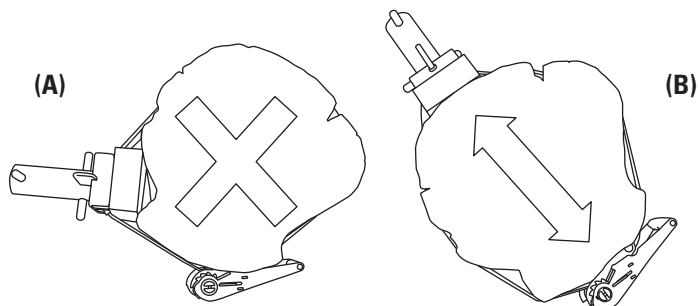
EASY RIG
 TREE RIGGING / FIXED BOLLARD

1) EASY RIG SETUP

If you are not dismantling the tree, Pro Climb advise using the **EASY RIG** with the tree protection rubber. This rubber plate will prevent damage to the tree while rigging.

In a dismantling situation it is good practice to make a horizontal cut into the tree to insert the **EASY RIG** stabilising plate.

If the tree has large buttress roots, is asymmetrical or irregular shaped, Pro Climb advise to cut notches for the ratchet-attachment straps to maximise the surface contact area of the strap.



The **EASY RIG** needs to stand proud on the surface area of the tree and not be placed in a dip (A).

The ratchet of the mounting strap should be placed outside the impact zone. We recommend placing the ratchet opposite the bollard (B).

There is only one ratchet-attachment strap used to secure the **EASY RIG** to the tree. The breaking strength is 5000kg.

(Note: Please ignore the 2500kg printing on the ratchets. The ratchets shown were designed for truck tie downs. The trucking industry uses a different design factor for their safety ratings. Due to cost reasons, we are not yet able to produce specific ratchets for the tree industry but are working towards it.)

The rigging loop on top of the bollard has a safe working load of 500kg with a 2:1 safety factor. It is designed for non-shock loading applications only, like pre-tensioning rigging ropes or lifting applications.

2) Belaying with the EASY RIG

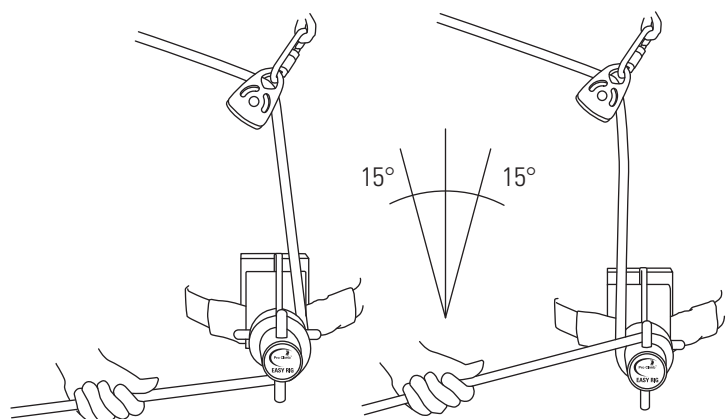
Belaying loads with the **EASY RIG** is very easy. The rope is placed behind one of the rope guides, guided underneath the drum and then around the drum. By adding more wraps a greater load can be controlled. The rope should always be guided in the **EASY RIG** vertically from the top (side of the rigging loop) with a maximum deflection of 15°.

After each lowering operation, it is good practice to switch the direction of the wrapping of the rope to prevent pig-tailing (also known as hockling).

As a simple rule:

"When placing the rope behind the right rope guiding pin, wrap the rope clockwise around the drum.

When placing the rope behind the left rope guiding pin, wrap the rope counter-clockwise around the drum."



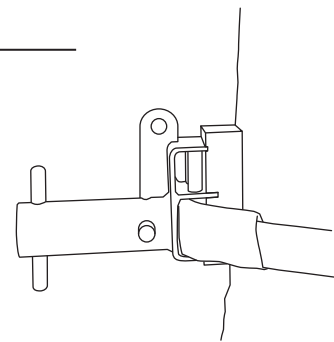
The **EASY RIG** should never be side-loaded. If it is necessary to use the **EASY RIG** on an adjacent tree (e.g. speedline setup) the rigging rope can be run through a pulley above the **EASY RIG** to prevent side-loading of the unit.

1.1) Two-man setup

When you have two people to attach the **EASY RIG** to a tree, it is easiest if one person holds the **EASY RIG** to the tree while the other person sets the ratchet-attachment strap.

Try to place the ratchets of the attachment straps opposite the bollard around the back of the tree trunk in order to minimise the risk of damaging the ratchets.

It is important to set the bollard in a manner that the drum is level or slightly tipped towards the ground. If the drum is tilted upwards, the rope can overrun itself and jam.



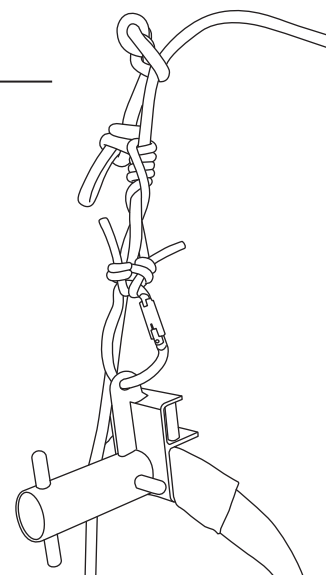
1.2) One-man setup

To setup the **EASY RIG** on your own on larger trees, it is easiest to use a rigging rope, a carabiner and a prussic.

First, tie the rigging rope around the tree with a running bowline at head height.

Secondly, tie a prussic onto the rigging rope tail hanging down, and then attach the **EASY RIG** via a carabiner to the prussic.

The **EASY RIG** can now be positioned without continuing to hold on to it. From here, follow the steps that are provided above in the two-man setup section.



3) Pre-tensioning the rigging rope

It is often good to pre-tension the rigging rope to reduce the shock loading of the rigging system or just to minimise the stretch in the rope.

An easy way of doing this is by attaching a pulley via a prussic to the sharp end of the rigging rope (rope end going up into the tree).

You can then belay the rigging rope with one or two wraps on the **EASY RIG** and run the tail of the rope through the pulley to create a three-to-one advantage.

By pulling down on the rope tail, the rigging rope will tension. After you have tensioned the rope, you can grab the rope tail which is going up to the pulley and place further wraps on the bollard.

It is important to take the pulley and the prussic off the rope before you start lowering.

