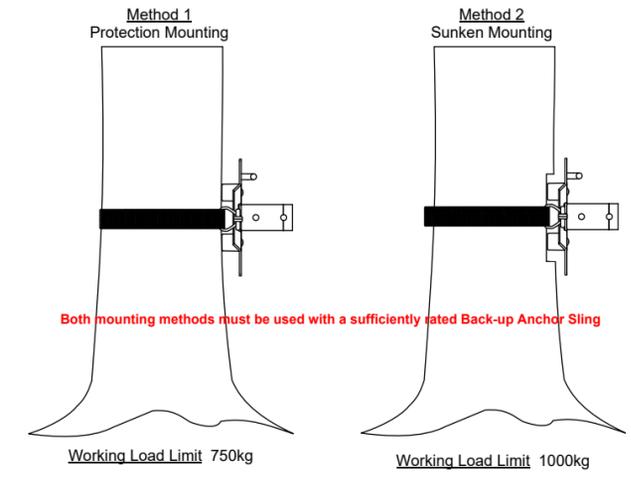


### Mounting Methods



**Method 1**  
Protection Mounting  
**Working Load Limit** 750kg

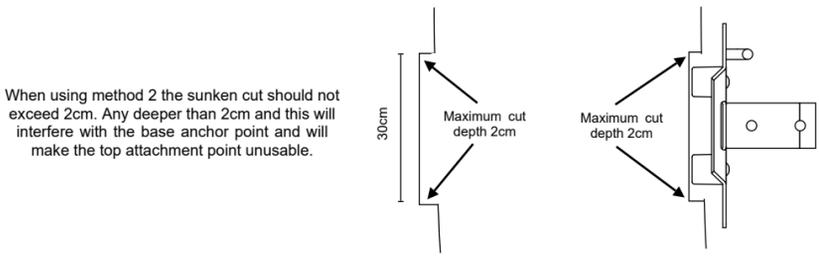
This method of mounting is used where selected limbs are being removed but the tree remains. This method helps protect the tree from damage.

**Method 2**  
Sunken Mounting  
**Working Load Limit** 1000kg

This method of mounting is used where the tree is being dismantled and the limbs lowered are of a heavy size and where impact loading may occur.

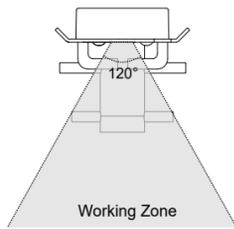
When mounting the device it is recommended to locate it at a height where the rope will be tailed out as close to horizontal as possible. This will ensure the maximum use of the fairlead's.

The Working Load Limit is based on using the specified mounting Ratchet and backed up with a sufficiently rated Anchor Sling.

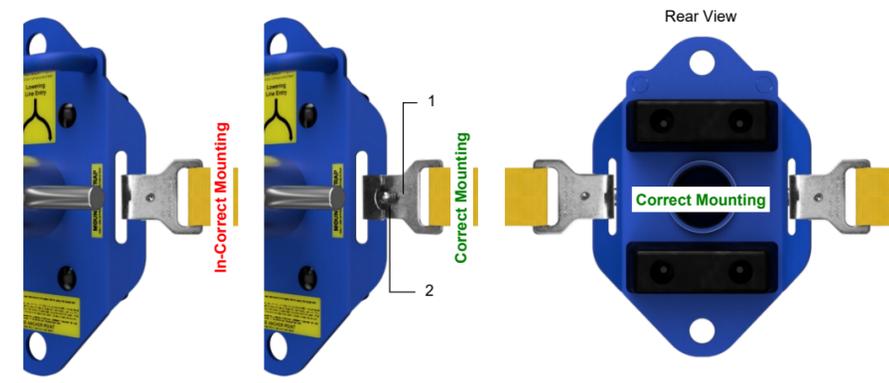


### Working Zone

The user should position the device so there is a clear working zone of 120° from the front of the device. The lowering line must stay within this working zone to ensure correct rope alignment. This also prevents the rope from overlapping on the bollard and makes full use of the fairlead's.



### Ratchet Strap Mounting



When fixing the Ratchet Strap ensure the open face of the hooks face outwards (away from the tree) as shown in the diagram (1) checking the Retaining Spring Pin (2) is located so the hook cannot come free from the device.

When tightening the ratchet ensure the webbing enters the ratchet evenly and is not in contact with the side guide plates. This will cause premature wear to the webbing and possible webbing failure. The retention devices must be inspected & checked for both tension and wear after each lowering operation to ensure they are securely attached to the device and the mounting point.

### Top Attachment Point

The top attachment point is used to support the weight of the device to help with the initial mounting of the device by an individual person and with the removal of the device from the mounting point. This can also be used for attaching a Pre-Tension Device.

The mounting strap is to be connected to the top attachment point with a suitable connector as shown in the diagram with the Gate Closure facing away from the trunk. The Strap can remain in place during use but ensure the Gate Closure faces away from the Rope Entry.

### Base Anchor Point



The Working Load Limit (WLL) is based on using the specified mounting Ratchet Strap and backed up with a sufficiently rated Anchor Sling.

This is to be connected to the base anchor point with a suitable steel connector as shown in the diagram below (Closure Gate facing away from the trunk) and terminated around the trunk using a suitable self-tightening hitch such as a cow-hitch or timber-hitch.

This must be inspected & checked for both tension and wear after each lowering operation to ensure it is securely attached to the device and the mounting point.

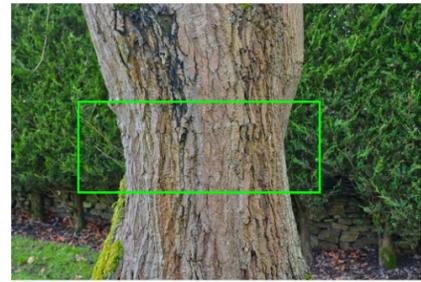
**WARNING**  
The SMB1000 Device should never be operated or used without a base anchor sling fitted and secured properly.

We strongly recommend that you use the STEIN SS-3372008005 Multi-Sling as the Anchor Sling

### Device Mounting Instructions

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

These instructions are the same for using both Mounting Methods as described previously



- 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 this can be achieved by shaping the stem to be parallel.
- You must then decide which type of mounting method is required for the job you are undertaking
- For ease of mounting we recommend that you use a STEIN Top Mounting Strap above where the device is to be mounted.
- Using the Top Attachment Point, attach the lowering device to the Karabiner.
- Ensure the Closure Gate on the karabiner faces away from the trunk
- Ensure the device is suspended at a height where it can be safely operated.



- Using the supplied Ratchet Strap attach the device to the tree.
- Ensure the Strap Hooks are fitted correctly and the Webbing is fed through the Ratchet Handle correctly
- Tighten the Ratchet System as tight as possible ensuring the device is securely mounted to the tree.
- Once the Device is securely mounted a backup Sling must be attached to the base anchor point, and tied off using a suitable termination hitch. Ensure the sling is of a sufficient length to terminate the hitch properly.
- Once the device is mounted correctly the Top Mounting Strap can either be removed or detached from the device.

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 can be achieved by incorporating the STEIN Hauler Kit. This system has been design specifically to be used with STEIN Lowering Devices. Those using this product should also carry the relevant qualifications (Country Specific) in the use of this type of product in Tree Care Operations. If you are not able, or not in a position to assume this responsibility, do not use this product.

### Routing The Rope

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

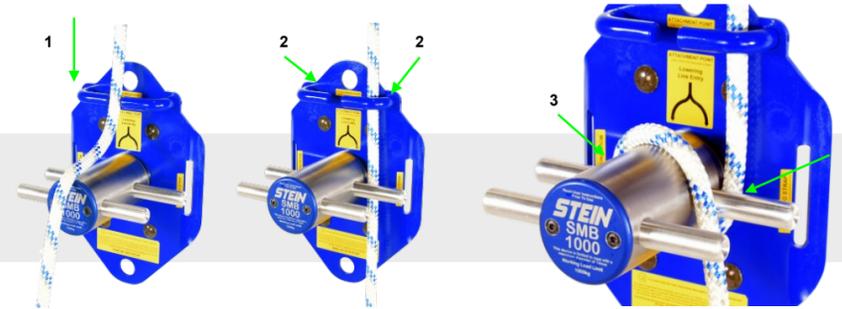
The SMB Lowering Device should only ever be used with the correct diameter of rope, You must never exceed the recommended maximum diameter. Each device has a Working Load Limit (WLL) – This is the maximum load allowed to be applied to the device for lowering. These values are based on a static vertical load being applied and used as specified in these instructions. However, a dynamic load can multiply the forces incurred on a rigging system; a dynamic load weighing considerably less than the WLL of the device can still exceed the limit due to the multiplied forces caused by its motion. Therefore, all potential dynamic loads should be carefully calculated and minimised where possible.

Model	Maximum Rope Diameter	Working Load Limit (WLL)
SMB1000	14mm (9/16")	1000kg (2200lbs)

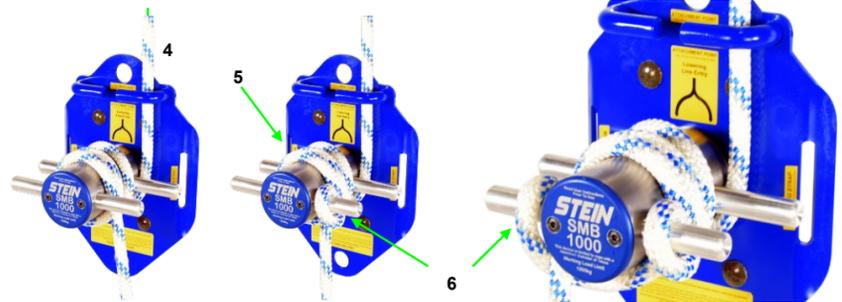
- Working Load Limits will vary depending on the type of mounting used
- The Working Load Limit is based on using the supplied mounting Ratchet Handle & Strap and backed up with a sufficiently rated Anchor Sling and mounted as per these instructions.

**We strongly recommend the use of the STEIN OMEGA-14 Rigging Line ORL-32/14 with the SMB1000**

The following instructions demonstrate the correct routing of the working line when the line enters from the right-hand side of the device. Reverse the operation if entering from the left. Never use alternative routing as this may result in serious injury or death.



- Ensure the working line enters the device from a vertical point directly above the device.
- The line must pass behind the rope guide on the top right-hand or left-hand side of the bollard.
- The rope must take a single wrap, passing behind both rear fairlead's
- Pull the rope tight and continue with further wraps in between the rear and front fairlead's



- Apply a couple of wraps, more wraps maybe required subject to the size of timber being lowered. More wraps give more friction.
- If at any time you need to suspend/lock a load, simply wrap the working line a minimum of 3 times around the bollard and finish by applying 1 or 2 half hitch's on opposing exit fairlead's. Subject to the size of load being suspended extra half hitch's maybe required.



### INSTRUCTIONS FOR USE

SMB1000  
SKU - SS-245SMB1000

This User Manual cover the correct use of the SMB1000 with Dual Line Entry Points and Replaceable Fairlead's. If your SMB1000 differs to this unit please refer to the correct User Manual for that version.

