

# PORTAWRAP

Portable rope friction device used for controlling the descent of limbs, branches and wood sections in tree care operations.

## WARNING!

This device is intended for use by trained and skilled rope technicians only. Read instructions thoroughly and practice use away from people and valuable property before engaging heavy loads (in excess of 100 pounds). Use or misuse of this product can result in injury or death. Use with caution. Not designed for human support or transport.

## WARNING!

Thoroughly inspect target and work site for potential hazards and adjust accordingly. When rigging trees, aside from inspecting tree's trunk and anticipated anchor point(s), also inspect tree parts that might break free in the process of removing connected sections! And also, as a general statement, tree failures can occur underground, so carefully inspect the surrounding ground for signs of root related decay or other weaknesses.

**DO NOT CONNECT** Portawrap to sling with SNAP OR OTHER METAL CONNECTOR (always connect sling with girth hitch directly to sling loop)

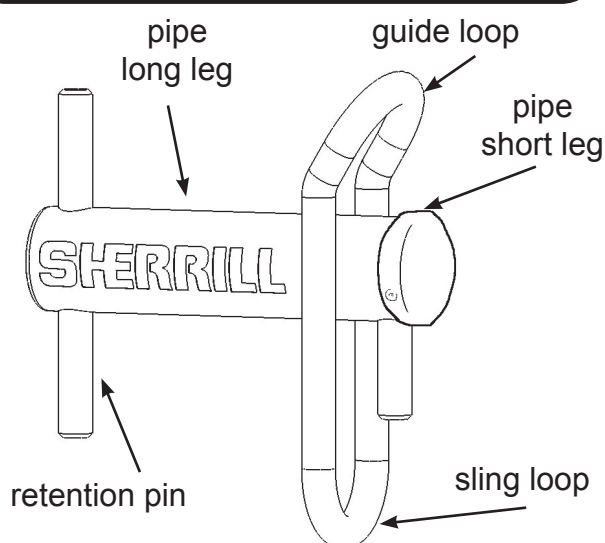
**DO NOT** attempt to control rope within 2-feet of device (hands could get sucked into rope path)

**DO NOT OPERATE** without first bundling long hair or removing loose clothing or risk entanglement

**MAKE SURE** you have enough rope to land targeted load safely onto landing zone

**DON'T OVER ESTIMATE** the strength of your anchor point(s) or ropes. Expect the unexpected and always have an escape plan from a hazard zone.

## Components



**INSPECT:** Prior to use, always inspect Portawrap and supporting lines for damage or excessive wear. Replace materials that show signs of excessive wear.

## SPECIFICATIONS

**Weight;** MED 4-lbs, LARGE 7-lbs

**Working load limit;** 2,000 lbs (900 kilos)

**Acceptable rope types;** polyester-jacketed doublebraid or solid braid

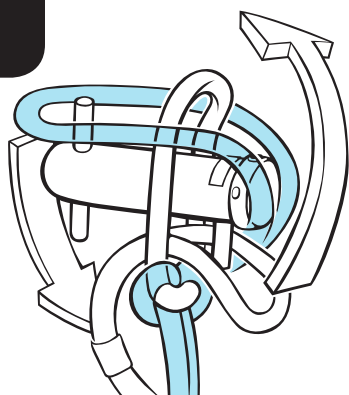
(Do not use 3-strand or twisted rope)



**Recommended rope diameter;** 1/2-in. (13mm), to 3/4-in. (20mm)

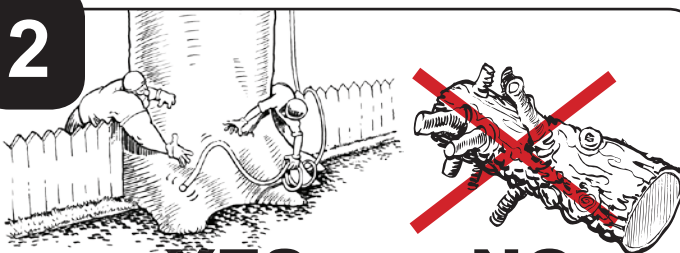
**Recommended sling types for anchoring Portawrap;** Whoopie (adjustable lifting sling), Eye sling with 12-in. (30cm) spliced eye. **NOTE;** should have minimum tensile strength of 20,000 lbs (9,000 kilos);

1



**SLING ATTACHMENT**  
Attach mooring sling to long loop (sling loop) of Portawrap by threading the sling's eye through the device to create a secure cinching hitch.

2



**YES**

**NO**

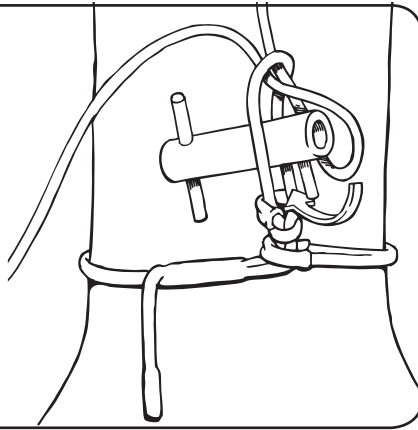
### SLING ANCHORAGE

Attach mooring sling to substantially adequate anchor position for targeted load requirement

# 3

## RUNNING LINE INSTALLATION

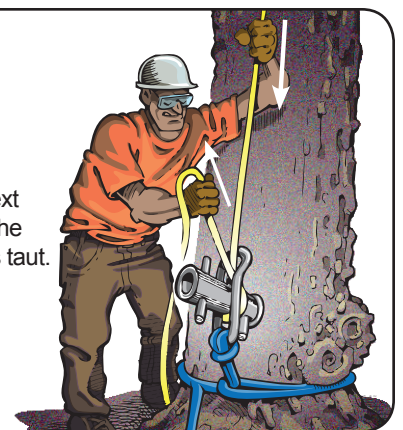
Insert a bite of rigging line through guide loop (top) of Portawrap following the path as illustrated.



# 4

## SLACK REMOVAL

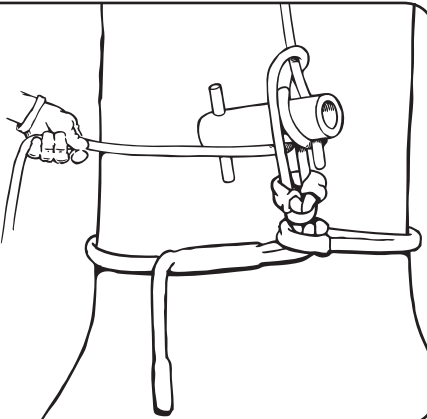
Before proceeding to the next step it is important to draw the slack out of line so that all is taut.



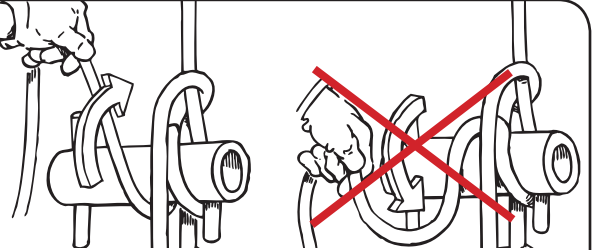
# 5

## WRAPPING DEVICE

Wrap the working line around the Portawrap's working end as illustrated.



# 6



**YES**

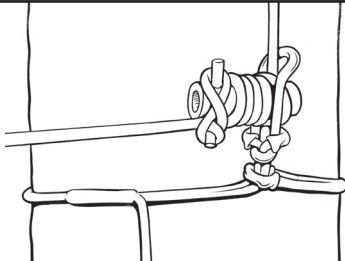
**NO**

**IMPORTANT!! DON'T CHANGE DIRECTION**, proceed wrapping in the same direction as initiated.

# 7

## LOCK-OFF

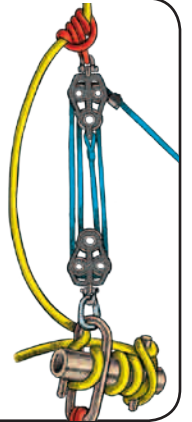
It may become necessary to lock off the rigging line while performing another task. To do so take as many wraps as possible (without overlapping line) between guide loop and retention pin, then hitch pin as illustrated. If you fail to make essential wraps before locking off there exists the risk that a strong load may cinch so tight as to require knife removal of rope.



# 8

## LIFTING AND PRE-TENSION

In some cases it may be necessary to pre-tension the rigging line using block and tackle. Illustrated here is one common technique utilizing fiddle blocks with separate reefing line (blue) and attached prusik for speedy line advancement.



# 9

## RUNNING LINE PREP

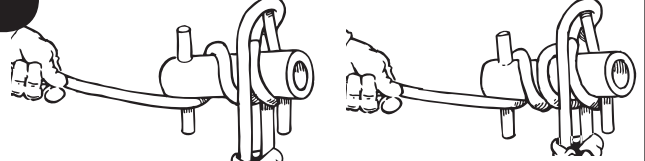
Before running line through the Portawrap it is important to make sure that line will feed freely through the operator's hands and into the device. Flake line from its falling end, up to that leading into the Portawrap and make sure there are no obstacles (stick, twigs, etc.) that might obstruct flow of line between pile and operator.



# 10

2 wraps

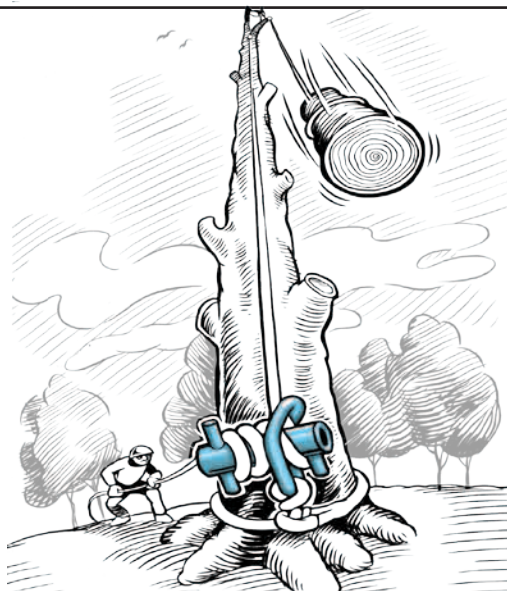
3 wraps



## PRACTICE

There is a learning curve to knowing how many wraps will affect the best control of various weights. Learn the Portawrap's limits by practicing with light loads (200-400 pounds) in an unoccupied safe zone before employing the device in an occupied hazard zone. 1 wrap controls about 330 pounds.

# 11



## OPERATION

Using the Portawrap is a one-person operation. The operator should remove all possible slack from the system prior to introducing a load from above. It is possible, and likely that the device will fall just prior to engaging tension because of slack that will occur when the load is initially released, there is no cause for alarm. **WEAR THICK LEATHER GLOVES** while feeding rope into the Portawrap to protect hands. Feeding rope is easy, rope should flow smoothly through hands. If rope doesn't move freely around the Portawrap when full load is applied, it is likely there are too many wraps on the device causing excessive friction. Unwrap a loop of line from the Portawrap without getting your hands too close to the device. If half a wrap is causing the friction you can move to the other side of the rope exit position.