



Introduction

Twister is a lifting device with a locking cam for use on kernmantle rope. It can be used for:

- Raising light loads
- Lowering light loads
- Positioning light loads
- Backing up an endless loop hand lifting system.

Twister has a one way locking mechanism meaning it will lock and hold the load if the rope or device is released. It is approved for loads of up to 10kg.

Before Each Use

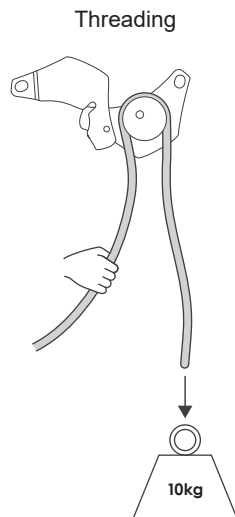
Check condition and operation of device. Refer to notes on reverse for more information. Ensure that the bobbin and top plate are free to move smoothly over their full range. Confirm locking and lowering functions under operational load in a location where there is no risk from device failure i.e. dropping the load.

Attachment

For raising and lowering thread the rope correctly, close the front plate and attach a suitable connector through both holes. For hauling or lowering attach Twister to a suitable anchorage point. **Ensure that nothing obstructs the correct operation of the cam e.g. adjacent structure.**

To pay out slack

Tip the device and pull on the load rope.



To raise

Pull up on the load rope at the same time as pulling down on the tail rope OR pull down on the tail rope with both hands - more difficult. When the load is in the required position, release the rope and the device will lock.

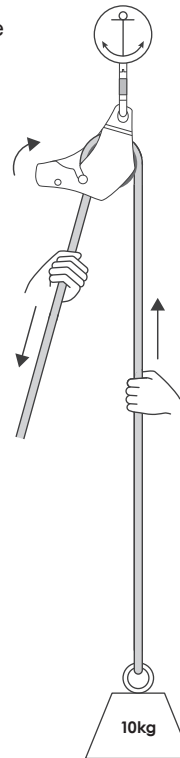
To lower

After threading device, check test correct function before connecting load. **Hold the tail rope** with one hand and with the other hand tip the device to release the lock. Control the rate of descent with the tail rope.

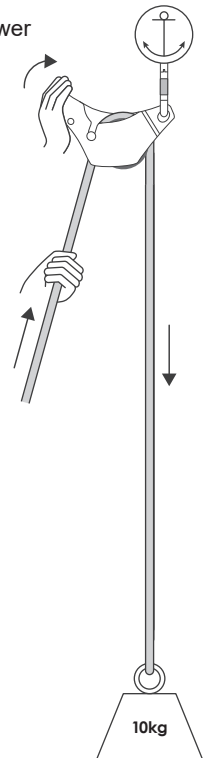
Note

- Device performance can be affected by rope condition. Take care when using a rope for the first time.
- Do not use as part of a PPE system.

Raise

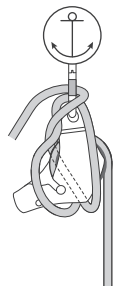


Lower



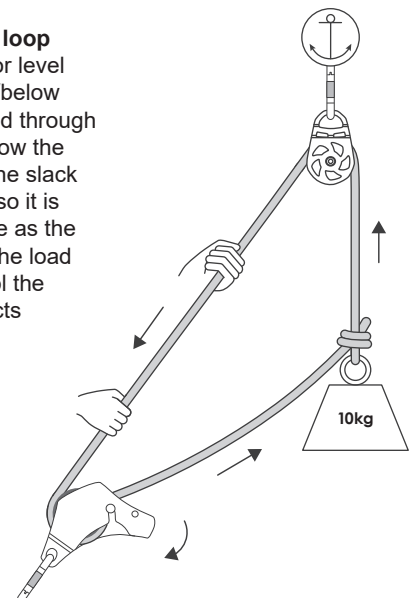
Locking-Off

Always hold the tail rope. If this is not possible Twister should be "locked-off" by passing a loop of the tail rope through the connector and then over the end of device.



To back up an endless loop

Anchor the device at floor level and put the rope behind/below the hands pulling the load through the device. The rope below the load should be fixed to the slack rope with minimal slack so it is pulled through the device as the load is raised. To lower the load tip the device and control the tail rope. The tail rope acts as a guide when lifting and lowering.



Although this product is not classed as personal protective equipment, the product should remain traceable to the original certificate of conformity and a permanent record should be kept of its use. This user instruction forms part of the permanent product record. All users must receive and read a copy of these instructions and should understand what the instructions mean and be familiar with them, including, but not limited to function, suitability, compatibility of the product and inspection for defects arising from damage. A copy of this user instruction should be kept with the equipment, and referred to before and after each use. In the event of a rescue, these instructions should be provided to the rescuer.

The anchor device or anchor point used should be of sufficient strength to sustain foreseeable loads in all permitted directions. Specific standards requirements:

2b - Further Requirements for Anchor Points in US (ANSI):
ANSI: (a) where certified, twice the maximum arrest force, or
(b) where not certified 22.2kN (5,000lbf) for fall arrest, 13.3kN
(3,000lbf) for work positioning, or 4.5kN (1,000lbf) for restraint.
When designing, selecting, and certifying a fall arrest anchorage
the qualified person shall include the limitations on use of the
system in fall protection procedures described in ANSI Z359.2.
Design, selection and installation of certified fall arrest
anchorage shall include determining a safe location where and
how to connect those anchorages by taking into consideration
the forces generated by arresting a fall, total existing and
anticipated loading, load path, structural member strengths,
connection and support strengths, stability, clearance
requirements, swing fall, rescue deflection of the system, and
impact on the structural members to which the fall arrest system
is attached.

Anchorage selected for rescue systems shall have a strength capable of sustaining static loads, applied in the directions permitted by the rescue system of at least 3,100lbf for connection of rescue system only, or meet a Factor of Safety of 5:1 based on the static load placed on the system when the system is designed, installed and used under the supervision of a qualified person.

Anchorage connectors shall not be attached to anchorages where such attachment would reduce the anchorage system strength below the applicable level set forth above or reduce the anchorage strength below the allowable level set by applicable structural codes. A suitable anchorage connector shall be used for rigging the connection of lanyards and lifelines to structural members. A lanyard shall not be connected back onto itself for use as an anchorage connector unless specifically designed for this purpose.

Other components used in fall protection or work positioning systems must conform to the relevant standards, be compatible with each other and be used in accordance with their user instructions.

The strength of this product may be affected by cuts, nicks, deep scratches, wear, abrasion, deformation, chemical contamination, UV degradation, exposure to flame, extreme temperatures and other factors. Keep this equipment away from such sources of damage. Use this product with caution near moving machinery, electrical hazards, sharp edges and abrasive surfaces.

If there is any doubt about condition of the product, or it has been subjected to a fall or substantial shock load, withdraw it from use until confirmed to be safe, in writing, by a person deemed to be competent by The heightec Group.

The safety of use depends upon the continued efficiency and durability of this equipment, which must be subjected to detailed visual and tactile examination by a competent person* at intervals of no greater than 6 months for textiles or 12 months for metals, taking into account relevant legislation, equipment type, frequency of use and environmental conditions. These examinations should be carried out strictly in accordance with the manufacturer's periodic examination procedures. Detailed examinations should include confirmation of the legibility of product markings.

*A competent person may be defined as someone who "...has appropriate theoretical and practical knowledge and experience..."

Textile products or elements: check material and stitching for damage including cuts, nicks, abrasion, fraying, discolouration, heat or chemical damage etc. Ensure stoppers are present on ends of adjustment webbing.

Wash textiles by hand with non-detergent soap at approx 25°C (cool). Rinse and dry naturally, away from direct sources of heat and sunlight. If necessary use a disinfectant compatible with polyamide and polyester. Use diluted and rinse thoroughly in clean water. Dry as previously stated. These cleaning procedures must be strictly adhered to.

Textile products or elements: maximum 10 year lifespan from date of manufacture, subject to competent use, maintenance and examination programme.

Users should be suitably trained and competent to work in situations where a risk of falling may be present or under the direct supervision of such a person, fully trained in the use of this product and free of medical contra-indications for work at height or rescue. Do not use this product outside of its limitations or if you are unsure of any aspect of its use. No alterations or additions may be made to the product. The heitech Group do not take any responsibility for injury or accident of any kind arising from the use of this product.

[illegible]

5b - Care of rope during use:
Take any steps necessary to protect the rope from damage during use, including rope protectors, edge protectors, intermediate anchor points or deviations to avoid sharp or rough edges. Consider also the position of the rope below the user. Ensure rope cannot suffer from the effects of wind, or become trapped around obstacles.


3. Guarantee:
This product is guaranteed for three years against faults arising from manufacturing errors or materials defects. This guarantee does not include normal wear and tear, faults arising from uses for which the product was not designed and accidental damage.

If this product is re-sold outside the original country of destination the reseller shall provide these instructions in the language of the country in which the product is to be used.

The following markings may be present on the product:

CE CE mark - European Conformity.

 Read these instructions before use.

 For use with kernmantel ropes conforming to EN1891 type A

XX-YY - Diameter range of rope which this product may be used, in mm



Direction of use

Date of manufacture is marked on the product in the form:
DAY MONTH YEAR, DDMMYY eg.120510.

The ID no. is unique to this item.
Do not remove or obscure the product labels or markings.
 Unique ID should be read in conjunction with product code and
 batch number e.g. D01 120510 123