D36 RescueHauler
rope controller

USER INSTRUCTIONS

heightec.com

Description
The D36 RescueHauer rope adjustment device is designed specifically as a working line descender and is suitable for
• Descending
• Ascending
• Progress capture
• Rope rescue, lowering & hauling

For use on EN1891(A) kernmantel rope (Ø10.5 to 11mm). The RescueHauler has been tested on 10.5 and 11mm Tectra rope. RescueHauler has a progressive double-braking mechanism meaning it will brake if the handle is either released or pulled too hard in panic. RescueHauler can be used on a rope at any angle, and has additional protection against backwards threading.

Single user 150kg max
Rescue 200kg max

Before Each Use
Check condition and operation of device. Refer to notes on reverse for more information. Ensure that the handle, gate, cam and top plate are all free to move smoothly over their full range and that spring-loaded elements return fully.
Confirm haul catch is NOT engaged and is free to move. Confirm braking and descending functions under operational load in a location where there is no fall risk.

Attachment
For ascending or descending attach RescueHauler to central (ventral) waist attachment point on harness with a suitable locking connector. For rope rescue attach RescueHauler to a suitable anchorage point using a suitable locking connector.

Threading (fig.1)
To thread the RescueHauler put the handle in the locked position, open the front plate (this can be done without removing the connector by opening the front face catch). Take rope and feed round the cam in an anticlockwise direction so that the tail rope exits the top right of the device, then close the front plate. Ensure the catch snaps shut around the connector.

fig.1
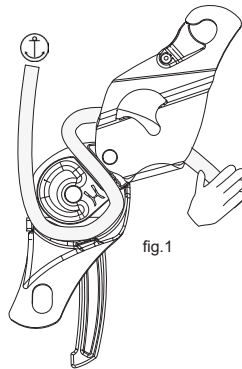
Removing rope
Reverse the process used to thread the device.

Paying out rope
The handle has a detent when positioned in the GO position. When no load is applied the handle can be held in this position to pay rope out. If weighted the detent will be overridden by the cam rotation and operate as normal.

Descending / Lowering
First remove any slack rope by holding the handle in lock position and pulling on the tail rope. Apply weight to the descender. Hold the tail rope and unlock the device by rotating the handle in an anti clockwise rotation until resistance from the cam is felt. Pull gently on the handle until the desired speed is reached. If pulled too far the device's second brake will progressively engage to prevent an out of control descent. The primary brake is progressive enabling the user to find a sweet spot in the go position easily even on slopes.

2 person descent - To start the descent a strong pull on the handle and a firm grip on the tail rope will be required. Once moving, the forces are reduced. Practice this technique in a controlled environment.

Ascending / Hauling (fig.2 & 3)
To ascend / haul / progress capture, put the handle in the lock position and push the haul catch forward until it clicks in to the recess in the handle. This enables the device to be used for ascending, progress capture and hauling. **For all other uses the haul catch should NOT be engaged, this allows other safety functions to work.**

To ascend, use an ascender on the same rope to unweight the descender and pull rope through the device. To haul, a suitable pulley system and rope grab may be used to reduce the effort required such as the hurricane shown in fig.3.
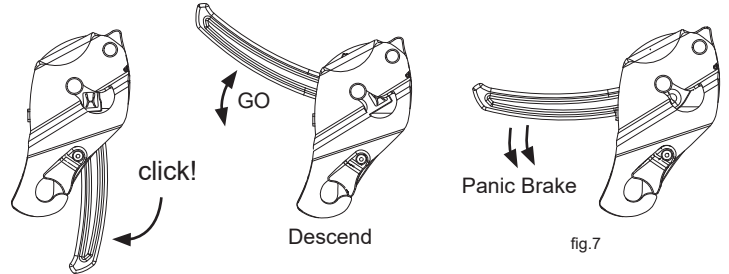
Progress Capture
Normal Use
fig.2
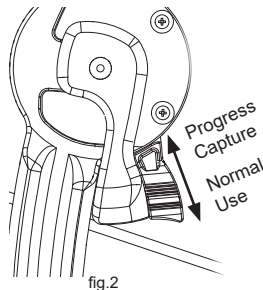
Handle Positions (fig.7)
To Lock / Ascend or Thread: Rotate fully clockwise until it clicks in to the lock position.
To Descend: rote anti clockwise until resistance is felt.
Panic Brake: if the handle is pulled anti clockwise too far the device will slow down.

GO
click!
Lock / Ascend
Descend
Panic Brake
fig.7

Tail rope positions (fig.4)
Always hold the tail rope when descending/lowering.
The RescueHauler tail rope can be used in two positions.
1) over the front plate for ease on short descents.
2) in line using the rope path over the brake block to prevent rope twists on longer descents. Stainless friction surface reduces wear on the device and increases control.
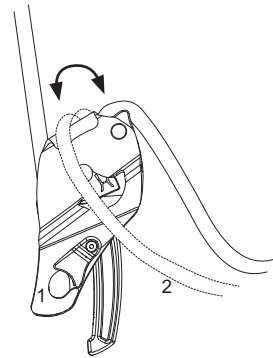
Back threading protection
The RescueHauler has protection against backwards threading. If threaded backwards and loaded the second brake will grip the rope and stop an out of control descent. If triggered, the handle will be forced out of the lock position and the cam will grip the rope. The user should attach to a safe anchorage e.g. ascenders before operating or unlocking the device further.
DO NOT attempt to descend.
Warning: back threading protection can be overridden with the haul catch. Before using the device for descent ensure that it is NOT engaged.

1 2
fig.4

Inspection (fig.5)
The RescueHauler has a wear indicator on the cam (fig. 6). If the line is fully broken the device should be retired. The mechanism can be inspected, cleaned and regreased by removing the stainless plate on the back by removing the 2 small screws and sliding this off. The spring that locks the handle can all so be removed and cleaned. To do this simply remove the screw. Regrease the spring with general purpose grease.
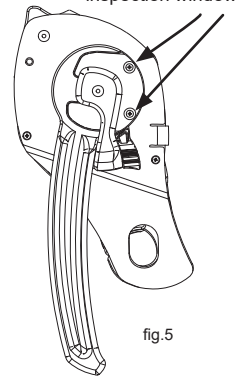
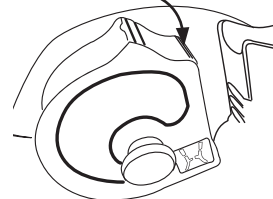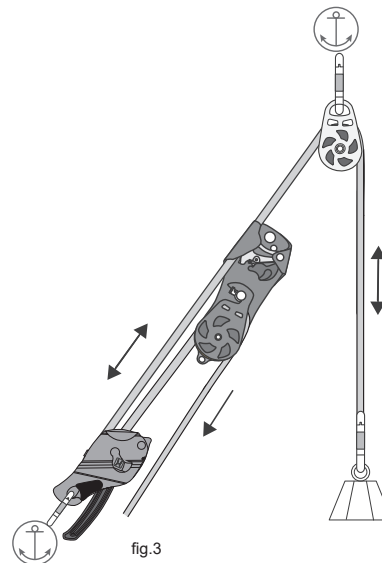Unscrew to remove inspection window

fig.5

fig.3

wear indicator

fig.6

Warnings
• Always use in conjunction with a suitable back-up system e.g. a Type A device on another rope.
• Always maintain control of tail rope, unless device is "locked-off."
• Always use a connector (EN362 Class B) with bar size between Ø10mm and Ø12.7mm.
• Do NOT use screwlinks (EN362 Class Q) with bar size less than Ø10mm
• Always minimise slack in anchor line.

• Do NOT over-load or apply dynamic load as this may damage the rope.
• Always be aware of the device temperature rising during long/fast descents due to friction - this may damage the rope.
• Ensure a knot or other end termination is used at the bottom of the working line, to prevent descending off the end of the line.
• Ensure the rope does not run over any sharp edges or abrasive surfaces.
• Do NOT use outside of limits or for any purpose than described above.
• Do NOT use as part of a fall arrest system.

1 - Personal issue and traceability:
If this product is classed as personal protective equipment it should be individually issued to the person who will be using it. 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.

2a - Anchor Points:
The anchor device or anchor point used should be of sufficient strength to sustain foreseeable loads in all permitted directions. Specific standards requirements:
EN: Anchor device should conform to EN795, with minimum static strength of 12kN. heightec recommend a higher strength of 15kN as specified in the IRATA ICOP and BS7985.
When more than one system is attached to an anchorage, these strengths should be multiplied by the number of systems. Anchorages should be positioned to minimise the potential for falls, and the distance and consequences of any potential fall, ideally above the user. Verify there is sufficient free space beneath the user to avoid collision with the ground or other obstacles and minimise sideways or pendulum falls. The connecting system instructions should give advice on clearance required, but a fall arrest energy absorber may extend by up to 1.75m.

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 anchorages 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.
Anchorages 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.

Persons engaged in rescue operations that are exposed to a fall hazard, must be provided an anchorage suitable for fall arrest in accordance with ANSI Z359.1.
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.
Anchorage connections shall be stabilised to prevent unwanted movement or disengagement of the rescue system from the anchorage. Verify system connections by pre-tensioning the system before applying the intended load.
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.

3a - Inspection and care:
The strength of this product may be affected by cuts, nicks, deep scratches, wear, abrasion, deformation, chemical contamination, UV degradation, exposure to flame, extreme termperatures 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.
This product must be inspected before and after use, and particularly after being used for rescue, to ensure the product is in a suitable condition and operates correctly. Written records should be kept of all inspections.
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.
No repairs of this product should be undertaken, any attempt to do so may invalidate it's compliance and/ or certification.
The safety of users depends upon the continued efficiency and durability of this equipment, which must 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..."

The results of examinations should be recorded. Intermittent inspections of components which may be subject to excessive wear may also be appropriate. The results of these need not be recorded. It is recommended that this product is marked with the date of the next or last inspection. Contact your distributor for information on suitable inspection procedures.

3b - Inspection criteria:
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.
Metal devices or components: check for damage, corrosion, excessive tightness, sharp edges, excessive play, deformation, cracking or anything that might affect strength. Check security and correct operation of any moving parts e.g. side plates, return action of springs, cams, operating handles, bearings. Check function of closure mechanisms, where present (e.g. screwlink thread, connector gates).

3c - Cleaning, maintenance and storage:
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.
Mechanical metal products with moving parts should be occasionally oiled, at bearings or pivot points, with excess oil removed. Store and transport in a dry, clean condition, away from sources of severe vibration, humidity, direct heat, sunlight and any physical or chemical contaminants.

4 - Lifespan:
Textile products or elements: maximum 10 year lifespan from date of manufacture, subject to competent use, maintenance and examination programme.
Metal products: indefinite lifespan, subject to competent use, care and examination programme. The lifespan of all products will be reduced by normal wear and tear, particularly when used in abrasive or corrosive environments. In extreme circumstances, the life of an item may be reduced to a single use.

5a - General usage:
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 heightec Group do not take any responsibility for injury or accident of any kind arising from the use of this product.

INSPECTION RECORDS		ID Number:	
Product:		PO/ Certificate No.:	
Model/Type:		Purchase Date:	
Manufacture Date:		First Use Date:	

Date	Observations / Comments	Actions	Inspector	Next Due

It is essential a rescue plan is in place to deal with emergencies and in particular to consider treatment and recovery of a fallen or suspended person. Rescue equipment must be present and personnel should be competent in its use. Orthostatic intolerance can occur when a person is suspended motionless in a harness, and is potentially fatal. Ensure that the rescue of a suspended person is carried-out promptly.
Contamination with oils, lubricants, water or solvents may alter the performance of the product. For rope devices behaviour will vary according to the age, type, diameter and characteristics of the rope used.

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.

6 - 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.

7 - Notes:
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.
Markings:
The following markings may be present on the product:

UKCA mark - UK Conformity

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

The heightec Group Ltd, Unit 19, Lake District Business Park, Mint Bridge Road, Kendal, Cumbria LA9 6NH, UK   05/02/2020