



**heightec**<sup>®</sup>  
with respect to gravity...™

**Products for professional  
work at height and rescue**



**heightec.com**





Products for professional work at height and rescue

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**heighttec.com**



**Powerlock**  
Rescue Descender  
**heightec**

EN1891 (A)  
Ø 11 mm  
Max 200 kg



**CE0120**

EN 12841: 2006 type C  
191115 4171

EN341:1993 type B  
Max descent height 100m



# innovation & quality

## about heightec

heightec is an established UK manufacturer, specialising in the design of technical products for ascent, descent, work positioning, fall arrest and rescue.

Our mission is to be the most sophisticated supplier for specialist work at height by combining core values of elegant, innovative products and expertise in methods of use.

Products are designed with the highest margins of safety and tested beyond the requirements of international standards.

We combine exceptional performance with superior strength and durability and manufacture our products within maximum levels of quality control.

## design innovation

Our design team draws upon decades of accumulated knowledge and expertise to develop pioneering designs that have a single objective in mind - to excel at their intended function.

A range of leading design technologies, including CAD and rapid prototyping using 3D printers, are utilised to ensure concepts are precise and proven.

Our products have received many awards for innovation, including a UK Design Council Millennium Product Award in 2001 and Innovation Awards from the British Safety Industry Federation (BSIF) in 2004, 2006 and 2007.



BSIF  
INNOVATION  
AWARD



DESIGN  
COUNCIL  
AWARD



# DUON-Air MH02



# DUON MH01



colour options



## DUON

The first helmet that fully conforms to European Standard requirements for both industrial and climbing situations.

The DUON is the only helmet that has fully integrated adjustment, no extra parts or accessories required.

Total compliance for complex environments with changing hazards.

Situations with the risk of a fall require a strong chin strap - EN 12492. Industrial and confined areas require an easily releasable strap - EN 397. The DUON can change from one to the other at the twist of a button.

- Dual certification
- Variable buckle release force
- Adjustable ventilation system
- 10 year life span due to high level of UV resistance
- Contoured for unhindered upward vision
- Advanced cradle design for optimum comfort
- Seven points of adjustment for the perfect fit
- Compatible with a full range of standard accessories
- Improved durable headband height adjustment, no tools required
- Full range of colours and bespoke marking options available
- Replaceable sweat band and pads

MH02	DUON-Air	Vented	EN 397, EN 12492
MH01	DUON	Unvented	EN 397

Patented GB 2 531 146

### European Standards for helmets: EN 397 & EN 12492

Key differences:



#### EN 397 - Industrial

Weak chinstrap - will release should the helmet / chinstrap get caught in machinery etc.  
Small vents - prevents contact with small items - sparks, paint.



#### EN 12492 - Climbing

Strong chinstrap - helmet firmly fixed in the event of a fall.  
Large vents - increased airflow and cooling.

### Accessories

- Visors, head torches, replacement pads
- Bespoke company branding

For details see [heightec.com/products/helmets/](http://heightec.com/products/helmets/)



Technical information and video available online:  
[heightec.com/downloads](http://heightec.com/downloads)





# harnesses

## comfort, fit & function...

Designed for absolute safety, durability and strength.  
Integrated features, full adjustability for total support.  
Tailored to meet technical industry demands.

### Generic features:

- Multiple attachment points
- Reinforced gear loops with SWL
- Fixed or folding side D-rings for work positioning
- Fully adjustable for perfect fit
- Tested beyond EN standards
- Ergonomic padding for maximum comfort without restricting movement

SafeLock quick connect buckle and size options.

All rope access harnesses are rated to 140kg.

### SafeLock™ quick connect buckles

New buckle design grips webbing securely whilst retaining full adjustability.

All our quick connect harnesses feature high strength, forged alloy SafeLock buckles.

- Positive lock indicator
- Twin independent locking catches
- Lightweight, corrosion resistant aluminium
- Will not open under load

Patent pending



visit [heighttec.com/faqs](https://heighttec.com/faqs) to view our harness sizing guide



**NEW**

## APEX integrated harness H001Q

The only rope access harness offering a replaceable, integrated chest ascender.

The unique design increases comfort and makes ascending easier and more efficient.

**APEX system includes:**

### EXTOL harness

**Features:**

- Replaceable SYNC chest ascender increases usable lifespan
- Front and rear attachment points
- Large waist D-ring for multiple attachments
- Reinforced gear loops 20kg SWL
- Folding side D-rings
- Integral work seat attachment points
- High lumbar support with shoulder, waist and leg padding
- SafeLock quick connect buckles

### SYNC chest ascender

**Features:**

- Unique attachment method slots directly onto harness webbing
- SYNC ascender sits tightly against the chest section for efficient ascending and supreme comfort (see p.23)
- No tools needed to fit or remove ascender
- Features X-Cam technology

Patent Pending



SYNC - D44

EXTOL - H22Q

CODE	DESCRIPTION	CONFORMITY	ATTACHMENT POINTS				RATING (kg)	MEASUREMENTS (cm)		
			Sternal	Dorsal	Lateral	Waist		Torso	Waist	Thigh
H22Q	EXTOL	EN 358, EN 361 EN 813	•	•	•	•	140	95-120	70-140	60-80
H22QL	EXTOL quick, large							100-135	80-165	60-100
D44	SYNC chest ascender	EN 567, EN 12841 (B)	-	-	-	-	125	-	-	-

Q = SafeLock quick connect buckles

**NEW**

## AURA modular system H002Q

Premium modular sit harness system for rope access, offers the performance and features of the APEX system but in modular form.

AURA system includes:

### CORONA chest harness

Features:

- Lightweight shoulder padding for added comfort
- Front and rear attachment points
- Integrated connection for SYNC chest ascender
- Simple to adjust for perfect fit

### SYNC chest ascender

Features:

- Attaches securely to CORONA chest harness,
- No other connectors required
- Sits tightly against the chest for efficient ascending
- No tools needed to fit or remove ascender
- Features X-Cam technology

Patent Pending

### ECLIPSE sit harness

Features:

- High lumbar support with waist and leg padding
- Large waist D-ring for multiple attachments
- Folding side D-rings for work positioning
- Reinforced gear loops 20kg SWL
- Elasticated webbing retainers
- SafeLock quick connect leg buckles



CORONA - H52

SYNC - D44



ECLIPSE - H02Q

CODE	DESCRIPTION	CONFORMITY	ATTACHMENT POINTS				RATING (kg)	MEASUREMENTS (cm)		
			Sternal	Dorsal	Lateral	Waist		Torso	Waist	Thigh
H52	CORONA chest harness, front & rear D ring	EN 361 when attached to ECLIPSE	•	•	-	-	140 (with ECLIPSE)	-	-	-
D44	SYNC chest ascender	EN 567, EN 12841 (B)	-	-	-	-	125	-	-	-
H02Q	ECLIPSE quick sit harness	EN 358, EN 813	-	-	•	•	140	-	70-140	60-80

Q = SafeLock quick connect buckles

**NEW**

## HALO modular system H003

Sit harness system for rope access, with all the versatility, capabilities and quality of the AURA modular system, integrated into a lightweight design.

HALO system includes:

### SOLAR chest harness

Features:

- Lightweight shoulder construction
- Front attachment point
- Integrated connection for SYNC chest ascender
- Simple to adjust for perfect fit

### SYNC chest ascender

Features:

- Attaches securely to SOLAR chest harness, no other connectors required
- Sits tightly against the chest for efficient ascending
- No tools needed to fit or remove ascender
- Features X-Cam technology

Patent Pending

### SHADOW sit harness

Features:

- Low profile waist and leg padding
- Large waist D-ring for multiple attachments
- Elastic rear leg loop straps
- Reinforced gear loops 20kg SWL
- Elasticated web tidies to stow webbing



CODE	DESCRIPTION	CONFORMITY	ATTACHMENT POINTS				RATING (kg)	MEASUREMENTS (cm)		
			Sternal	Dorsal	Lateral	Waist		Torso	Waist	Thigh
H53	SOLAR chest harness	EN 361 when attached to SHADOW	•	-	-	-	140 (with SHADOW)	-	-	-
D44	SYNC chest ascender	EN 567, EN 12841 (B)	-	-	-	-	125	-	-	-
H01	SHADOW sit harness	EN 813	-	-	-	•	140	-	70-140	60-80





### **MATRIX - H21Q**

**Newly designed multi-functional harness  
suitable for all work at height**

**Incorporates front leg risers for ease of climbing**

- Articulating leg loops for maximum freedom of movement and comfort
- Shoulder, waist and leg pads
- Integral delta screwlink for fitting a chest ascender
- Folding side D-rings
- Multiple tool and accessory attachments
- 20kg rated gear loops
- SafeLock quick connect leg buckles

Standard version - H21

Optional version with fixed leg loops - H21QF

NEW



## VORTEX - H34Q

Premium WTG harness for work positioning and fall arrest

- High rear attachment point
- Low profile breathable back panel and waist pad
- Plastic wear protection in key areas
- Rapid fitting for emergency evacuation
- Contoured fit for comfort and freedom of movement
- Lanyard parking points
- SafeLock quick connect leg and chest buckles

NEW



## NEON - H28Q

Telecoms and rigging harness

- Shoulder padding
- Articulated hip and chest for flexible fit
- Alloy fall arrest D-rings, front and rear
- Integral positioning belt with large lumbar support and folding D-rings
- Lanyard parking points
- SafeLock quick connect chest strap, leg and waist buckles

Standard version - H28

CODE	DESCRIPTION	CONFORMITY	ATTACHMENT POINTS				RATING (kg)	MEASUREMENTS (cm)		
			Sternal	Dorsal	Lateral	Waist		Torso	Waist	Thigh
H21Q	MATRIX quick	EN 358 EN 361 EN 813	●	●	●	●	140	95-120	70-140	60-80
H21QL	MATRIX quick, large							100-135	85-165	60-100
H21	MATRIX							95-120	70-140	60-80
H21L	MATRIX large							100-135	85-165	60-100
H34Q	VORTEX quick	EN 358 EN 361	●	●	●	-		95-125	80-120	65-105
H34QL	VORTEX quick, large							115-150	95-160	65-125
H28Q	NEON quick							95-125	75-160	65-95
H28QL	NEON quick, large							115-150	95-160	65-120
H28	NEON							95-125	75-160	65-95
H28L	NEON large							115-150	95-160	65-120

Q = SafeLock quick connect buckles



## full body harnesses



### NEXUS PLUS - H32QJ

Enhanced 2 point fall arrest / restraint harness with lightweight jacket

- Alloy rings orientate the webbing for optimum fit and comfort
- Easy adjust shoulder buckles
- Lightweight breathable jacket
- Fully adjustable and easy to don
- Front attachment / rescue point
- Rear attachment point
- SafeLock quick connect leg and chest buckles





## NEXUS - H32Q

### Enhanced 2 point fall arrest / restraint harness

- Alloy rings orientate the webbing for optimum fit and comfort
- Easy adjust shoulder buckles
- Fully adjustable and easy to don
- Front attachment / rescue point
- Rear attachment point
- Leg and shoulder pads for extra comfort
- SafeLock quick connect leg and chest buckles



## PHOENIX - H11Q

### Professional rescue harness

For specialist fire and industrial rescue teams.  
The most popular harness in the UK fire service.

- Protected leg webbing increases wear resistance
- Ultra secure screwlink front attachment permits multi-directional loading for casualty attachment
- Highly durable and comfortable to wear
- Low profile back panel
- Unique adjustable locking side buckles allow full adjustment for users of different heights
- Rear attachment point
- Compatible with back mounted breathing apparatus
- Lanyard parking points
- SafeLock quick connect leg buckles

Standard version - H11

CODE	DESCRIPTION	CONFORMITY	ATTACHMENT POINTS			RATING (kg)	MEASUREMENTS (cm)		
			Sternal	Dorsal	Lateral		Torso	Waist	Thigh
H32QJ	NEXUS PLUS with jacket, quick	EN 361	•	•	-	140	85-128	-	60-100
H32Q	NEXUS 2 point quick								
H11Q	PHOENIX quick	EN 361 EN 1497	•	•	-	150	95-130	-	65-110
H11	PHOENIX								
H11L	PHOENIX large		•	•	-		95-165	-	65-145

Q = SafeLock quick connect buckles





# rope control

safe, secure, reliable...

We take time to develop products that make a real difference. Simple, effective solutions to make your work easier and safer.

Our high-specification designs excel at their intended purpose, giving maximum control in demanding industrial environments.

Our rope devices are manufactured in the UK using the highest grade stainless steel and heat treated aircraft grade alloys to achieve the ultimate in strength and corrosion resistance.

They are tough, durable and functional with loading and performance characteristics that speak for themselves.



# descent

simple, reliable, tough...

The EGO can be used for descent, ascent, rescue and hauling.

Intuitive design, easy to use, clean and maintain.

- SIMPLE** Progressive secondary brake increases reliability and safety.
- RELIABLE** Components are accessible for cleaning and inspection.
- TOUGH** Designed for aggressive environments - offshore, blasting, geotechnical.



The handle remains locked in the safe position for all functions other than descent. This reduces the need to manipulate the device for functions such as ascent and changeovers.

Progressive cam design gives precise control, allowing a safe and predictable descent.

**NEW**

## EGO descender

Advanced high load descender

### Features:

- Predictable, progressive braking action
- Long lifetime for demanding environments
- Progressive secondary brake to counteract panic descent
- Simple mechanism, easy to clean and inspect
- Maximum rated load 200kg - two person rescue without additional karabiner
- Locks if the device is threaded backwards
- Built-in wear indicator

Rope diameter: 10.5 - 11mm

Patent pending



EGO - D35



CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (kg)
D35	EGO descender	EN 12841 (C)	200

# back-up

adaptable, simple, practical...

The first back-up device to combine the effectiveness of a unique patented high-load cam with a speed sensing trigger mechanism.

## ADAPTABLE

Versatile back-up device for rope access, fall arrest, positioning or hauling.

Tows freely with a cowstail, without user intervention.

## SIMPLE

Fully functional with normal dynamic rope lanyards (cowstails) – no additional energy absorber needed.

Works in all situations – on slopes, both horizontally and vertically.

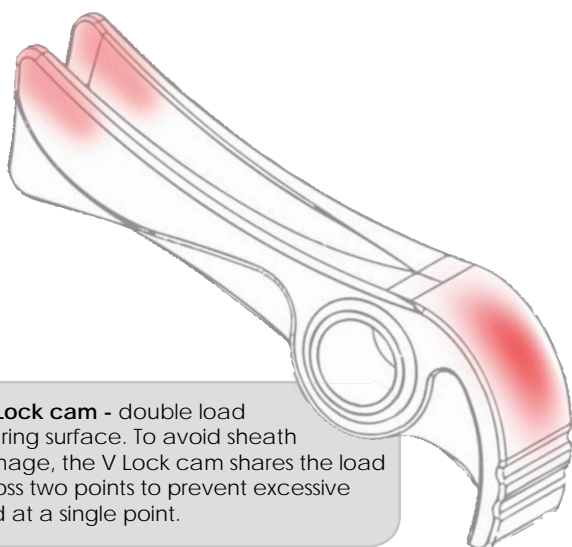
Locks automatically if in a free fall or if user descends too quickly.

Self parks, even after extended use.

## PRACTICAL

The speed sensing mechanism is fully sealed against aggressive conditions and will lock (fail to safe) if it becomes jammed or contaminated.

Load bearing cam can be easily cleaned and inspected.



**V - Lock cam** - double load bearing surface. To avoid sheath damage, the V Lock cam shares the load across two points to prevent excessive load at a single point.

**NEW**

FUSION back-up  
available end 2019



FUSION - D25



High strength tow hook

## Features:

- No additional energy absorber required
- Rated for two person rescue loads with no rope damage
- Self parking capability even after extended use
- Remains attached to cowstail to prevent risk of dropping
- Can be towed using the cowstail, without intervention from the user
- Can be used as a normal cam loaded device for hauling or positioning
- Function of load bearing cam can be easily checked before use

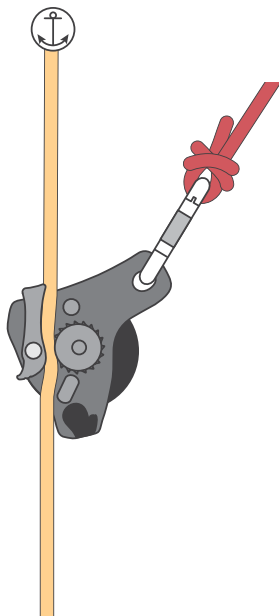
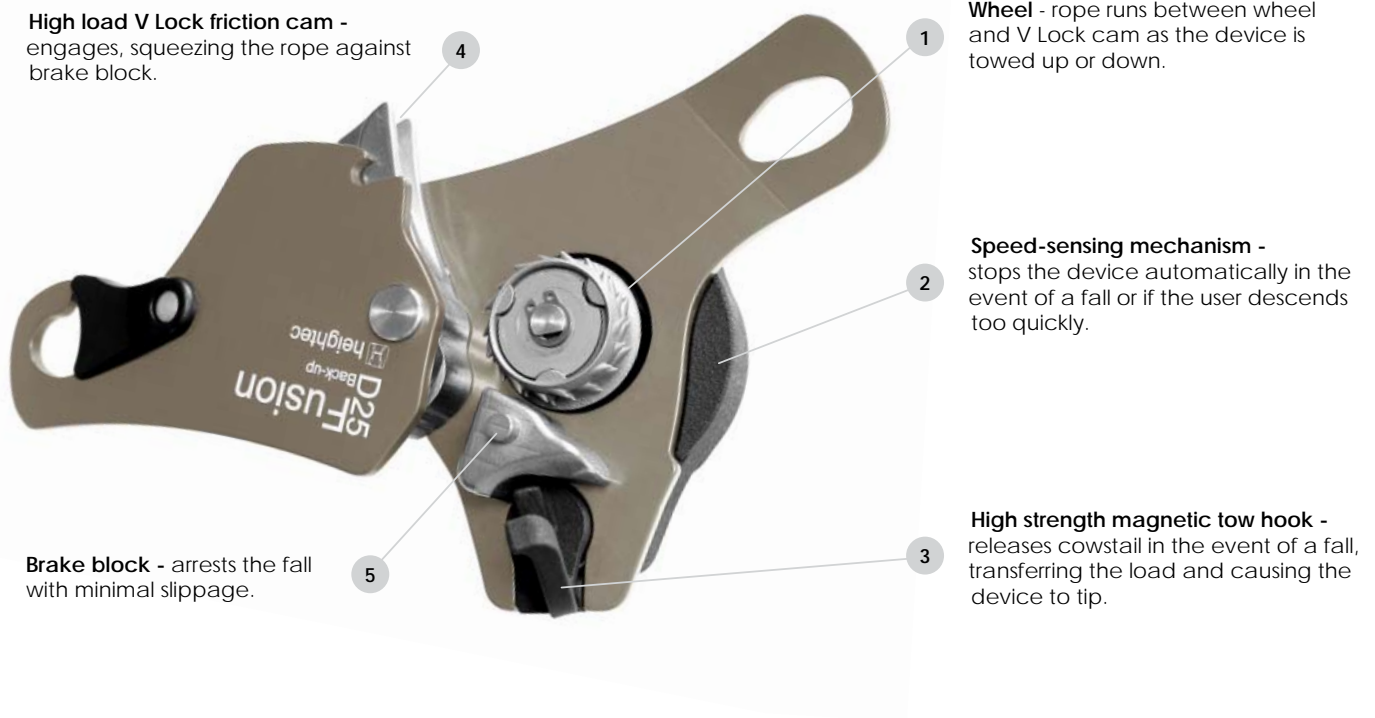
Rope diameter: 10.5 - 11.5mm

Patented

EP 2 796 172

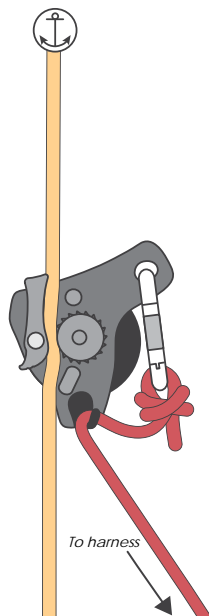


## Operation:



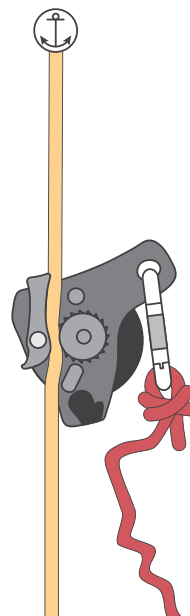
**fig. 1 - Ascent**

Clip a dynamic rope lanyard (cowstail) to the attachment point. Ascend as normal, towing the FUSION up by the cowstail.



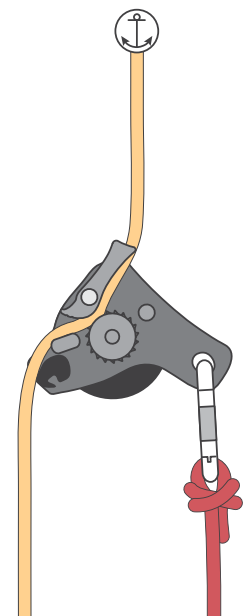
**fig. 2 - Descent**

Loop the cowstail into the hook. Descend as normal, the FUSION tows down automatically.



**fig. 3 - Deployment**

In the event of a fall, the cowstail is automatically released.



**fig. 4 - Fall Arrest**

Load bearing cam operates immediately.

CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (kg)	WEIGHT (kg)
D25	FUSION back-up	EN 353-2, EN 358, EN 12841 (A)	2 person rescue	0.35



## X-Cam

advanced, high-performance design

Our unique cam design is a considerable improvement on traditional sharp toothed cams

### Features:

- High strength durable construction
- Highly effective on angled ropes
- Does not jam, even against a knot
- Exceptional grip but won't pluck the rope
- Perfect for down climbing and rope manoeuvres
- Release catch allows single handed operation

High strength toothed cam has a tensile strength around 50% greater than competitor models.

X-Cam features in all heightec ascender rope devices.

### QUANTUM - D26

#### High performance rope access back-up device


- Suitable for two person rescue
- Minimum slippage during arrest on various rope types
- No sheath damage even on old or dirty rope
- Unique patented cam grips rope in two places
- Opening catch allows easy attachment /detachment without risk of dropping the device
- No additional energy absorber required
- Can be used with a dynamic rope lanyard (cowstail)

Rope diameter: 10.5 - 11.5mm


Type tested to 100kg (and tested with loads in excess of 200kg for rescue use)

Designed to address the "likelihood and consequence of misuse" clause in IRATA International Code of Practice, March 2013, 2.7.7.5.

Patented EP 2 796 172

 Technical information available online:  
[heightec.com/downloads](http://heightec.com/downloads)



 Video available online:  
[heightec.com/downloads](http://heightec.com/downloads)

CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (kg)	WEIGHT (kg)
D26	QUANTUM back-up	EN 353-2, EN 358, EN 12841(A)	2 person rescue	0.30
D44	SYNC chest ascender	EN 567, EN 12841 (B)	125	0.14
D40	PULSAR ascender			0.24
D40L	PULSAR ascender - left-handed			0.17
D41	COMPACT ascender			0.16
D42	TWIST chest ascender			

**NEW**



The first ever fully integrated chest ascender

### SYNC - D44

#### Removable chest ascender

The advantages of an integrated ascender but with the flexibility of being removable when required.

- Integrates with EXTOL, CORONA and SOLAR to perform as part of the harness (p.8-11)
- Sits tightly against the chest section for efficient ascending
- Can be removed from harness quickly, without tools
- Innovative attachment points secures ascender and reduces movement to an absolute minimum

Rope diameter: 10.5 - 12mm

Patent pending



### COMPACT - D41

#### Basic ascender

- Ideal spare ascender for use in hauling and rescue systems
- Two lower attachment points to separate cowstail and footloop

Rope diameter: 9 - 13mm



### PULSAR - D40

#### Handled ascender

- Ergonomic handle position and profile
- One upper attachment point for versatility
- Two lower attachment points to separate cowstail and footloop

Rope diameter: 9 - 13mm

Left handed version - D40L



### TWIST - D42

#### Chest ascender

- Can be integrated into full body harness or used to link chest and sit harness
- Profiled attachment points and slimline design

Rope diameter: 10 - 13mm



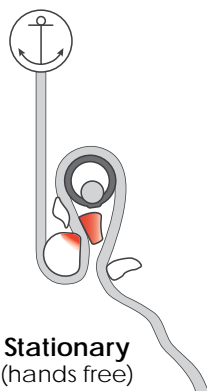
## DuoBrake™

### Two brakes are better than one

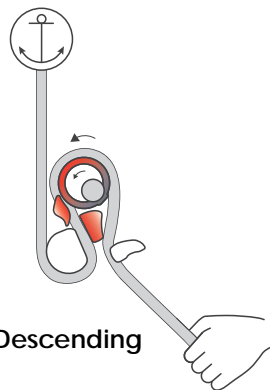
A long standing problem with descenders has been the ability to create variable friction for different descent conditions, but to also provide additional safety in the event of misuse.

Our patented DuoBrake system has a unique upper bobbin which increases the braking force provided by the user.

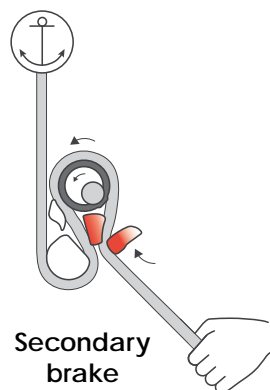
DuoBrake features in our MICRON, QUADRA and POWERLOCK devices.



**Stationary**  
(hands free)



**Descending**



**Secondary  
brake**

 Denotes friction point



### MICRON - D33

#### Ultra compact descender with double action safety

Allows a person to make a fine controlled descent


- Lightweight compact device, size equivalent to 10mm karabiner
- Offers functionality of larger systems at a fraction of the size
- Can be used for descent or to off-weight and lower a casualty
- Locks if handle is released or squeezed too hard
- High strength heat and cut resistant aramid cord
- DuoBrake system

Supplied pre-assembled in kit bags

Aramid cord: 7.5mm

Patented GB 2 367 048

MICRON evacuation system lengths:  
15m, 30m, 50m, 100m, 120m

 Video available online:  
[heightec.com/downloads](https://heightec.com/downloads)



## QUADRA - D011

### Multi-function rescue device

For life-lining, lowering, hauling and descending

Operator can change between functions instantly, while rope is loaded and without adding additional components.

- Folding handle prevents accidental operation
- High load capacity
- Will arrest 250kg load at Fall Factor 1/3
- DuoBrake system

Rope diameter: 10.5 - 11mm

Patented GB 2 367 048

Options:

D01 - Corrosion resistant stainless steel

D012 - Gate allows threading while attached to anchor



BSIF  
INNOVATION  
AWARD



## POWERLOCK - D321

### High load rescue descender

For two person loads with double action safety

- Designed for two person loads
- Passes EN 12416 dynamic test with 275kg
- Easy adjustment of slack rope prior to descent
- Fine control with high loads
- No need for additional friction karabiner
- DuoBrake system

Rope diameter: 11mm

Patented GB 2 367 048

Available in TOWERPACK rescue system (p.50)

CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (kg)
D33	MICRON evacuation system	EN 341 (D)	125
D011	QUADRA rescue device	EN 12841 (C)	200
D321	POWERLOCK descender	EN 341 (B), EN 12841 (C)	200

# lanyards

## total reliability for your protection

heightec has a wide range of twin, adjustable and specialist lanyards designed for work at height.

Using patented HELIX™ ropes allow high degree of twist in lanyard legs, minimising kinking.

Our new ELITE range of high specification twin lanyards feature automatically deploying footloop, which is totally unobtrusive and simple to use.






In the event of a fall users simply place feet into the integral footloop and stand. This allows the user to take the weight off and allow circulation to the legs which helps delay the onset of suspension intolerance.

heightec ELITE lanyards are the only lanyard on the market with an automatically deploying footloop.

### Generic lanyard features:

- Compact absorber design is quick and easy to inspect
- High loading characteristics
- Patented high twist HELIX rope reduces kinking in lanyard legs
- Unique serial ID number
- Rated load for users up to 140kg, Fall factor 2
- EN 354 - Lanyards
- EN 355 - Absorber
- EN 362 - Connectors

### Connector options:

HARNES CONNECTOR		ANCHORAGE CONNECTOR		
Oval screwlink (M)	Triple action karabiner (T)	Scaffold hook (S)	CE / ANSI hook (A)	Twistlock karabiner (KC)
				

### L2 - ELITE lanyards - connector options

CODE	DESCRIPTION	TYPE	LEGS	HARNES CONNECTOR	LENGTH OPTIONS (cm)	ANCHORAGE CONNECTOR
L2M***S	ELITE twin lanyard - oval, scaffold hooks	L	2	M	125, 150, 175	S
L2T***S	ELITE twin lanyard - triple action, scaffold hooks	L	2	T	150, 160, 175	S
L2T***A	ELITE twin lanyard - triple action, CE / ANSI hooks	L	2	T	160, 175	A
L2T185KC	ELITE twin lanyard - triple action, twistlock, sleeve, clip back	L	2	T	185	KC

\*\*\* denotes lanyard length eg: L2M150S - (150cm including connectors)

### L02 - TENSOR lanyards - connector options

CODE	DESCRIPTION	TYPE	LEGS	HARNES CONNECTOR	LENGTH OPTIONS (cm)	ANCHORAGE CONNECTOR
L02M***S	TENSOR twin lanyard - oval, scaffold hooks	L0	2	M	100, 125, 150	S
L02T***S	TENSOR twin lanyard - triple action, scaffold hooks			T		S
L02T***A	TENSOR twin lanyard - triple action, CE/ANSI hooks			T	100, 125, 150	A

\*\*\* denotes lanyard length eg: L02M100S - (100cm including connectors)

### L0 - TENSOR twin lanyard legs - no connectors

CODE	DESCRIPTION	TYPE	LEGS	HARNES CONNECTOR	LENGTH OPTIONS (cm)	ANCHORAGE CONNECTOR
L02***	TENSOR twin lanyard - no connectors	L0	2	-	100, 125, 150	-

\*\*\* denotes lanyard length - Total length depends on connector types attached. (Approx. 90cm with nothing attached)





**ELITE twin - L2T125S**

See length & connector options

## ELITE twin lanyards, with connectors - L2

Superior energy absorbing twin lanyards with integrated footloop and optional connectors for technical work at height.

Additional ELITE features:

- Built-in suspension relief footloop
- Large central clip back ring

## Options:

TENSOR high specification absorber - L00

Absorber replacement cover - L0C



**TENSOR absorber - L00**  
shown without cover

**NEW**



**TENSOR twin - L02M125S**

See length & connector options

## TENSOR twin lanyards, with connectors - L02

High specification energy absorbing twin lanyards with optional connectors.

Lengths 100cm, 125cm, 150cm

**NEW**



**TENSOR twin - L02125**

See length options

## TENSOR twin lanyards, no connectors - L0

High specification energy absorbing twin lanyard, without connectors.

Lengths 100cm, 125cm, 150cm

# Piranha lanyards

**NEW**

## PIRANHA adjustable lanyards

Versatile adjustable lanyard in 2m to 20m lengths for work positioning and restraint situations.

### PIRANHA adjustable lanyard features:

- Range of lengths and connector options
- Adhesive heat shrink on sewn terminations
- One handed operation
- Easy to use even when wearing gloves
- User replaceable rope
- Locks automatically when loaded
- Visible overload indicator
- Individual ID number

Rated load 150kg








Patented

GB 2 543 699



PIRANHA adjustable lanyard - LA02H

See length and connection options

ROPE ADJUSTER	HARNES CONNECTOR		ANCHORAGE CONNECTOR			
PIRANHA (alloy) (LA)	Oval screwlink (steel)*	ASTRA triple action karabiner (steel)*	Safety hook (H)	Twistlock karabiner (T)	Scaffold hook (S)	CE / ANSI hook (A)
						

CODE	DESCRIPTION	CONFORMITY	LENGTH (m)	LOADING (kg)
LA02	PIRANHA adjustable lanyard - 2m, no connectors	EN 358	2	150
LA02H	PIRANHA adjustable lanyard - 2m, hook			
LA02T	PIRANHA adjustable lanyard - 2m, twistlock			
LA02S	PIRANHA adjustable lanyard - 2m, scaffold hook			
LA02AS	PIRANHA adjustable lanyard - 2m, steel tri-act / ANSI hooks			
LA03	PIRANHA adjustable lanyard - 3m, no connectors		3	
LA03H	PIRANHA adjustable lanyard - 3m, hook			
LA03T	PIRANHA adjustable lanyard - 3m, twistlock			
LA05	PIRANHA adjustable lanyard - 5m, no connectors		5	
LA05H	PIRANHA adjustable lanyard - 5m, hook			
LA05T	PIRANHA adjustable lanyard - 5m, twistlock		10	
LA10	PIRANHA adjustable lanyard - 10m, no connectors			
LA20	PIRANHA adjustable lanyard - 20m, no connectors		20	

\* Safety hook supplied with oval screwlink / twistlock supplied with karabiner  
Replacement rope available for all PIRANHA versions



## PYTHON lanyard - LD\*\*\*

For work restraint or as component part of fall arrest system

- 11.5mm diameter dynamic rope lanyard
- Sewn termination

60cm, 100cm

\*\*\* Denotes length



## LASER Tensioned horizontal anchorage line

Dissipates the energy from a fall with no damage to rope or adjuster

- Easy to adjust and release
- Suitable for restraint or fall arrest\*
- Stainless steel tensioning unit
- No intermediate anchors required

Load rating (two persons 250kg)

Rope diameter: 13mm

10m, 18m, 25m

If access is required over a large area, the adjustable PIRANHA lanyard can be attached to the LASER allowing independent adjustment of the user's position in perpendicular directions.

CODE	DESCRIPTION	CONFORMITY	RATED LOAD
LD060	PYTHON lanyard	EN 354	SWL 1 person
LD100	PYTHON lanyard		
LH10	LASER horizontal line - 10m	EN 795 (C)	2 persons 250kg (125kg x 2)
LH18	LASER horizontal line - 18m		
LH25	LASER horizontal line - 25m	*RESTRAINT ONLY BEYOND 18M	







## Steel karabiners



**ASTRA - CKS2**  
Screwgate D  
Pin optional



**ASTRA - CKS3**  
Twistlock D  
Pin optional



**ASTRA - CKS4**  
Triple action D  
Pin optional

## FastClip transfer connector - CH141

### Alloy double action vessel transfer connector

Allows rapid attachment and release from retractable systems. Can be released under partial load e.g. when stepping onto the deck of the transfer vessel.

- Instant, single handed operation
- Offset double action safety mechanism
- Unique forked gate allows immediate closure
- Positive lever action enables immediate disconnection
- Integral load indicator



EN 362, MBL 24 kN, WLL 240 kg



**Scaffold hook - CH01AM**  
Modified

Smooth modified gate profile prevents snagging and ensures correct attachment to the casualty, eliminating accidental release of casualty connector (p.49)

## Alloy karabiners



**ALTAIR - CKA1**  
Screwgate D



**ALTUS - CKA2**  
Screwgate D



**ALTUS - CKA3**  
Triple action D



**ALTO - CKA4**  
Screwgate Oval



**ALTO - CKA5**  
Triple action Oval

CODE	DESCRIPTION	CONFORMITY	BAR DIAMETER (mm)	GATE OPENING (mm)	STRENGTH (kN)
CKA1	ALTAIR screwgate D	EN 12275	11	21	28
CKA2	ALTUS screwgate D	EN 362	13	22	28
CKA3	ALTUS triple action D		13	22	28
CKA4	ALTO screwgate oval		12	17	22
CKA5	ALTO triple action oval		12	19	22
CKS2	ASTRA screwgate D		11	20	45
CKS3	ASTRA captive twistlock D		11	22	41
CKS4	ASTRA captive triple action D		12	24	45

## footloops & workseat



**MMFL1**  
Adjustable



**MMFL3**  
103 cm



**MMFL4**  
130 cm



**MMFL5**  
153 cm



### MESA workseat - MMWS1

### Footloops

- Reinforced, durable steps
- Lightweight and compact
- Adjustable one step modified for a range of lengths

- Fully adjustable with tool suspension points
- Marine ply with closed cell foam padding
- SWL 1 person, non PPE
- 50cm wide

# anchors & slings



## Nylon sling - S25N\*\*\*

- 25mm webbing round sling
- Can be used end to end or wrapped around as a strop
- Allows easier connection to anchor point
- Unique ID number

30cm, 60cm, 120cm, 240cm



## Protected nylon sling - S25N\*\*\*P

- 25mm webbing protected sling
- High visibility protective sleeve
- Sleeve provides extra abrasion resistance and easy inspection
- Unique ID number

30cm, 60cm, 120cm, 240cm



## DYNEEMA sling - S12D\*\*\*

### Versatile nylon sling dyneema

- Can be used end-to-end or wrapped around as a strop
- Individually marked for traceability

17cm, 30cm, 60cm, 120cm



## Anchor strop - A\*\*\*

- 7mm hard wearing steel wire
- Large thimble allows rotation of connectors for easy rigging
- Clear PVC cover for quick inspection
- Unique serial ID number

Galvanised or stainless steel options

50cm, 100cm, 150cm, 200cm

\*\*\* Denotes length

CODE	DESCRIPTION	CONFORMITY	RATING
S25N***	Nylon sling - (nylon)	EN 354 EN 566 EN 795 (B)	200kg 25kN MBL
S25N0***P	Protected sling - (nylon)		
S12D***	Dyneema sling	EN 566	165kg 23kN SWL
A***	Anchor strop - 7mm, (g/steel)	EN 354 EN 795 (B)	300kg WLL
AS***	Anchor strop - 7mm, (g/steel), soft eye		
ASA***	Anchor strop, 7mm (s/steel)		
ASS***	Anchor strop, 7mm (s/steel), soft eye		





## GRATEMATE PLUS - MR60Q

Clamps instantly and securely to grating

- Twin apertures accommodate two ropes preventing rope-on-rope friction
- Fits a wide range of grating sizes
- Easy to fit and remove, no tools needed
- Cam lever for rapid installation and removal
- Fits a range of rope sizes up to 13mm

Registered Design 5003381



## GRATEMATE - MR63

Glass reinforced nylon (GRN) rope protector for metal or composite grating walkways

- Twin apertures accommodate two ropes preventing rope-on-rope friction
- Durable, lightweight GRN construction
- Fits a wide range of grating sizes
- Four tie down points give stability when in use
- Two karabiner holes for ease of carrying
- Fits a range of rope sizes up to 13mm



## SENTINEL - MR705

50cm Chainmail wrap-around, mid-rope protector

- Extreme cut and corrosion resistance
- 'See-through' chainmail construction allows inspection of rope without removing protector
- Velcro closure strip enables quick fit
- Includes cord for protector attachment

Option: PVC cover - MR705P

Patent Pending



## SENTINEL Plus - MR715 (with fabric cover)



## MANTLE - MRP05 / MRP10

Canvas rope protector suitable for abrasive blunt edges

- Canvas gives better performance than PVC
- Includes attachment cord
- Velcro closure

50cm, 100cm



## CASCADE - MR75

Edge protector for multiple ropes

- Heavy duty stainless steel
- Double rope channels
- Rounded edge - reduces friction when hauling / lowering
- Asymmetric shape for increased stability

## KARI - lifting and transport bags

### Tough, multi-purpose roll-top transport bags

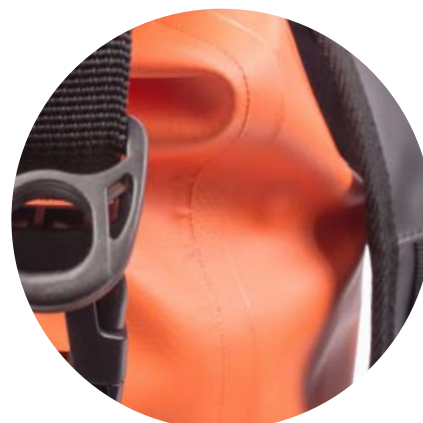
Designed specifically for work at height and rescue bringing all the features of traditional dry bags to work at height but with increased protection.

heightec's transport bag range offer a style for every function - personal, kit, lifting, rope, rescue and tool bags.

#### Features:

- Rucksack style carrying straps
- Roll-top closure
- Waterproof fabric and welded seams
- Lockable side fasteners
- Load rated daisy chain
- Reinforced base
- Clear document pocket

Meets requirements of IPX7 - accidental submersion in water





KARI 5 - B05



KARI 15 - B15\*  
KARI 30 - B30



KARI 65 - B65



KARI 50 - B50

CODE	DESCRIPTION	RATING WLL (kg)	LENGTH (cm)	WIDTH (cm)	DEPTH (cm)	SIZE (ltr)	APPROX. ROPE CAPACITY (m)
B05	KARI 5	5	30	Ø 21	-	5	-
B15	KARI 15	7	35	Ø 23	-	15	50
B30	KARI 30	18	50	Ø 27	-	30	100
B50	KARI 50	18	100	Ø 27	-	50	150
B65	KARI 65	20	70	40	25	65	200

\*KARI 15 has multi-functional shoulder straps offering various carrying styles.



# lifting & lowering

## lighten the load

Traditionally lifting equipment has been too big and heavy for hand hauling. By combining our lightweight range of certified lifting devices, pulleys and connectors we provide simple solutions to tackle a variety of controlled hand hauling operations, from basic to complex tasks.

Safe, simple and efficient.



NEW



Personal pulley - P01



Rescue pulley - P02



Rescue Prusik pulley - P03

### VANTAGE 5:1 Locking casualty pulley - P10

For transferring a casualty onto a rescue system without cutting connections

- Cam automatically locks allowing simple and safe rescue procedures
- Woven plastic sheath provides cut and abrasion resistance
- Highly compressible sheath prevents snagging between cord or pulleys unlike similar products using mesh sleeves
- 8mm cord gives good grip for hauling

Approved as PPE

Can be used in a TOWERPACK rescue system (p.50), 5:1 mechanical advantage enables the rescuer to easily off-weight a casualty from their system onto a rescue system.

CODE	DESCRIPTION	CONFORMITY	MBL(kN)	WLL(kg)
P10	VANTAGE 5:1 Locking casualty pulley	EN 567, EN 12278, EN 564	14	140
P01	Personal pulley - fixed, 2cm (alloy)	EN 12278	26	260
P02	Rescue pulley - swivel, nylon 5cm (alloy)		30	300
P03	Rescue Prusik pulley - swivel, nylon 5cm (alloy)			

**NEW**

## Introducing our new load control devices

Featuring offset pulley mechanisms that auto lock.  
Easy to lower, safe to use.



### TORNADO - D701

#### Unique locking pulley with one way bearing

Two way operation for quick and easy lifting, lowering and positioning of loads up to 50kg.

- One way sealed bearing system in the main cam allows pulley to rotate freely when lifting
- Functions as a pulley when lifting for minimum friction
- Simple tilt operation for controlled lowering
- Used in hand hauling systems (p.40-41)
- Locks if released when lifting or lowering

Rope diameter: 10.5 - 12mm

Patented GB 2 437 793



### TWISTER - D71

#### Unique locking load controller

A small, lightweight accessory for controlling loads of up to 10kg.

Used for raising, lowering, positioning loads and for backing up loop hand hauling systems.

- Compact and unobtrusive
- Provides friction for controlled lowering, simply tilt the device to lower
- Locks if released when lifting or lowering

Rope diameter: 10.5 - 12mm



Video available online:  
[heightec.com/downloads](https://heightec.com/downloads)

CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (WLL)
D701	TORNADO	EN 13157	50kg
D71	TWISTER	2006 / 42 / EC	10kg





### HURRICANE - D431

#### Unique rope grab with pulley

Combine with TORNADO or TWISTER (p.40) to create a quick and simple Z-rig pulley system at any point along rope.

- Intuitive, compact and lightweight
- Simpler to use than separate components
- Can be easily attached to a loaded rope
- Self locking pulley catch with simple operation
- Creates a hauling system quickly and easily, reduces amount of rope required by 70%
- Low profile attachment point for tool tether
- High performance X-Cam locking mechanism

200kg rated load

Rope diameter: 10.5 - 11mm

Patented GB 2 410 235

Can be used in rescue by combining with PPE devices e.g. QUADRA (p.25). Component of RescuePack (p.51).



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### CYCLONE - P201

#### Heavy duty lifting pulley with locking cam

Specifically designed to aid hauling of equipment.

- Simple, clean design for ease of rigging
- Low friction integral pulley wheel
- Lightweight alloy construction
- High performance X-Cam locking mechanism

100kg rated load (determined by strength of user)

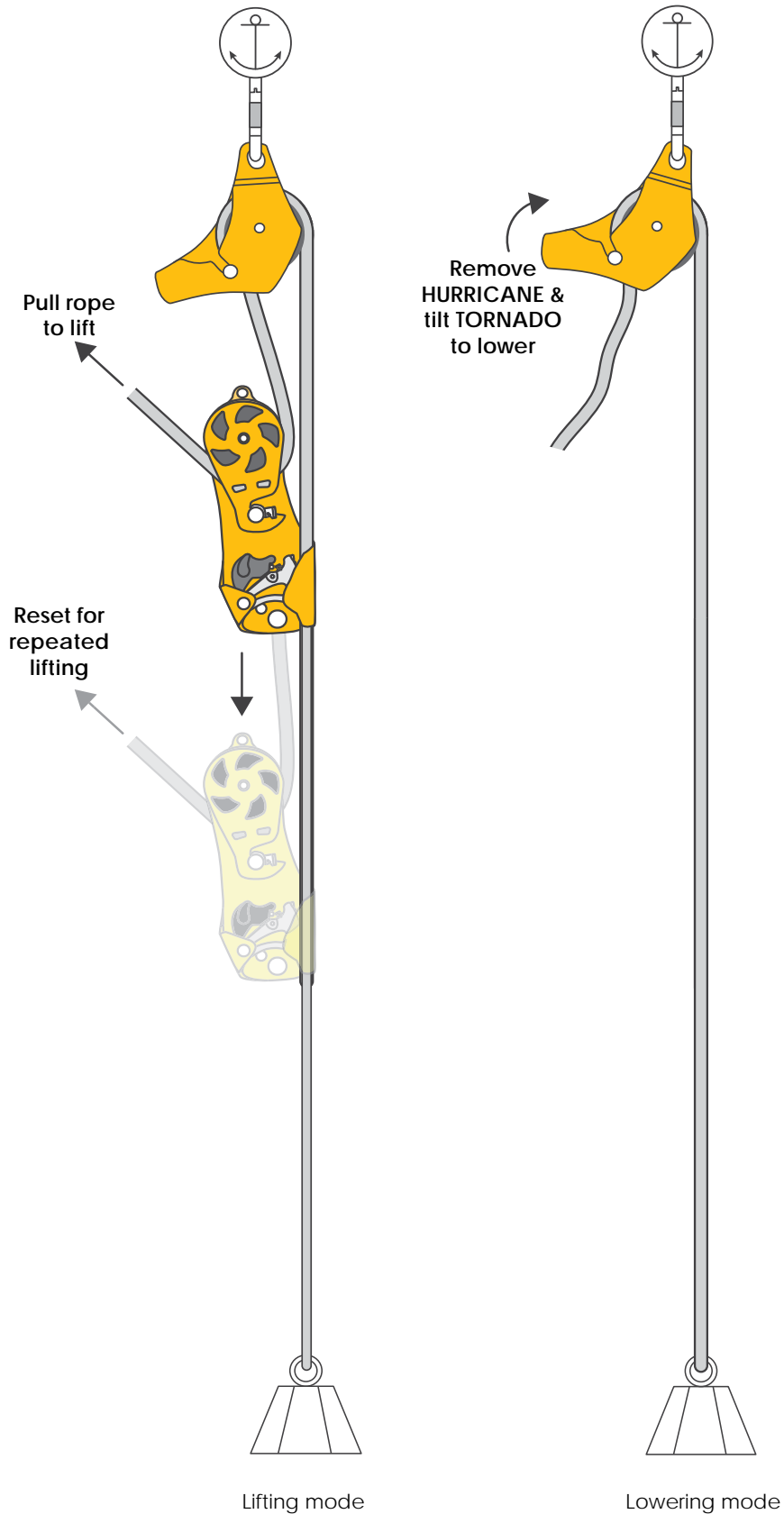
Rope diameter: 10.5 - 11mm

NB: Not certified for lifting persons

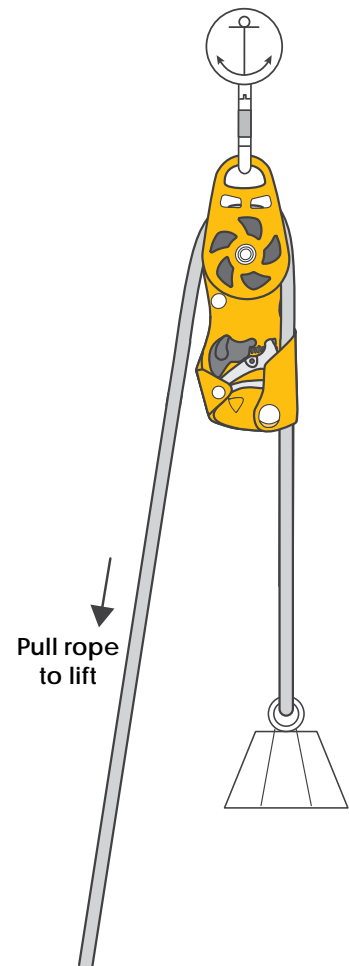
CYCLONE and HURRICANE lifting and lowering kits (p.42-43).

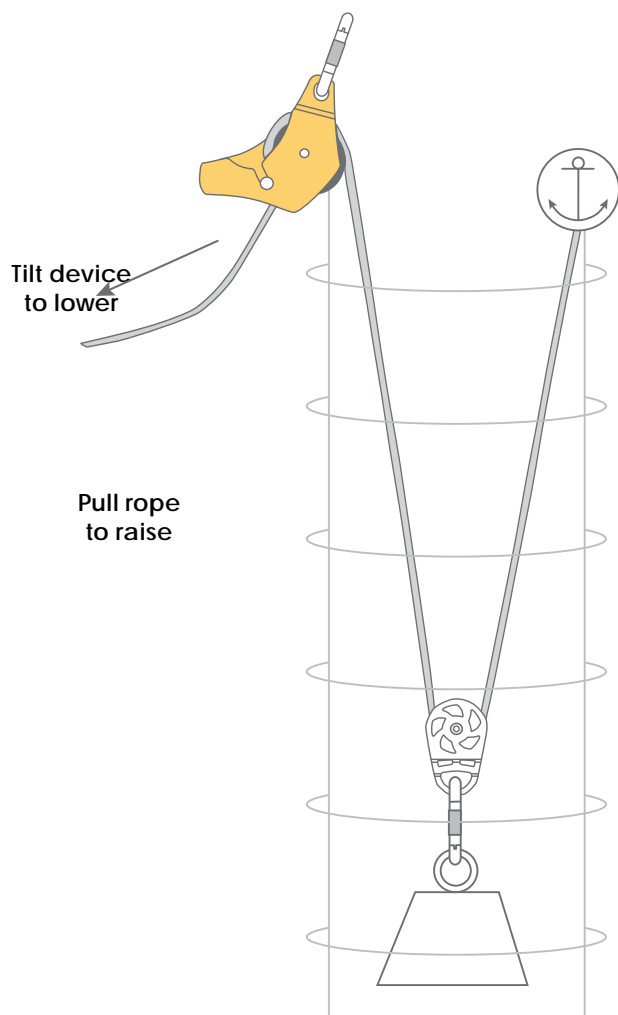
CODE	DESCRIPTION	CONFORMITY	RATING - NORMAL USE (WLL)
D431	HURRICANE rope grab	EN 12278, EN 12841 (B)	2kN
P201	CYCLONE pulley	2006 / 42 / EC	100kg

**TORNADO and HURRICANE pulley system**  
for Z-rig type operations. System can be reset  
as many times as required

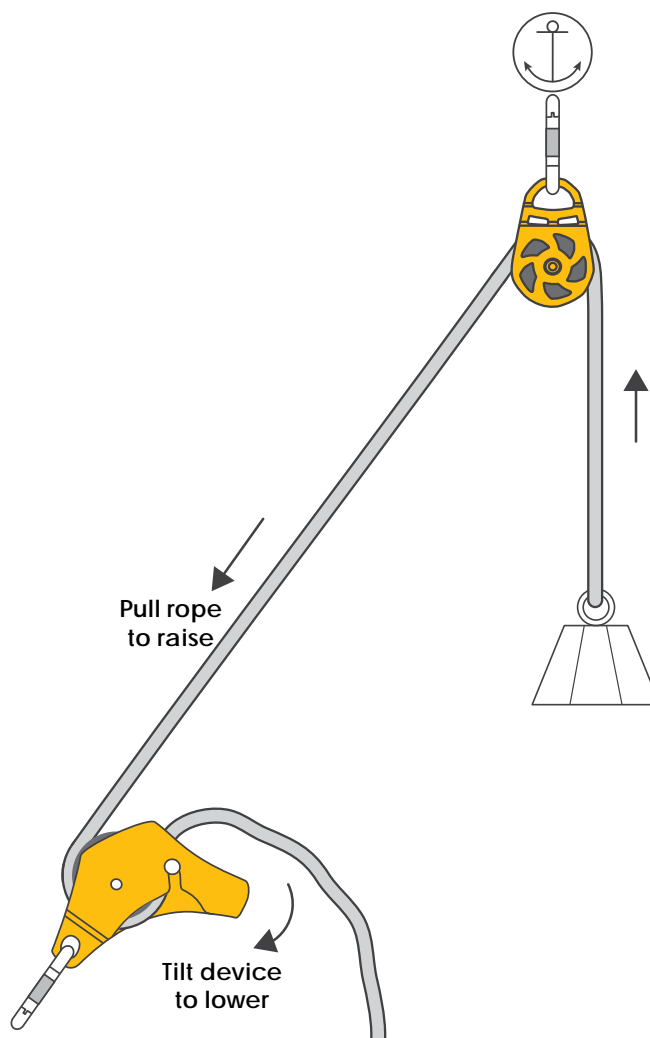


**CYCLONE lifting system - WK52**  
Basic lifting system using the  
CYCLONE lifting and locking pulley





**TORNADO pulley system**



**TORNADO system**

This system allows current work practices to be carried out in the same way, but system will auto lock if user accidentally lets go of device.

Locking function reduces risk of dropped objects when hand hauling.

Operation of this device is simple - pull the rope to lift, tilt the device body to lower.

TORNADO and TWISTER can also be used in compound pulley systems to increase mechanical advantage and use with higher loads.





### Basic Lifting - WK52

Simple lifting kit designed to lift small to medium loads

- Locks in lifting mode only
- Durable and corrosion resistant CYCLONE (p.39) locking device
- Additional stainless steel pulley with nylon wheel for corrosion resistance and a reduced spark hazard
- Provides high degree of grip on ropes of varying condition including after rupture of the sheath
- Ideal for offshore use

Comes complete with terminated rope and large hook, protected sling, karabiner and KARI transport bag.

NB: Not certified for lifting persons

SWL 100kg

25m, 50m, 100m



## Lifting and Lowering - WK56

System allows lifting, lowering and positioning of loads

- TORNADO device (p.38) locks if released when lifting or lowering
- Functions as a pulley when lifting for minimum friction
- Provides friction for controlled lowering with simple, smooth operation
- Swivel cheek allows rope removal / fitting at any point

Comes complete with terminated rope and large hook, protected sling, karabiner and KARI transport bag.

SWL 50kg

50m, other lengths available - call for details

Patented GB 2 437 793



## Advanced Lifting and Lowering - WK55

Allows lifting, lowering and positioning of loads, has additional components for more versatile rigging options

- Unique HURRICANE device (p.39) allows multiple rigging options for high mechanical advantage
- Simple to change from lifting to lowering, can be made whilst under load
- Extra pulley for redirection or increased mechanical advantage

Comes complete with terminated rope, protected sling, karabiners and KARI transport bag.

SWL 100kg

50m, 100m

Patented GB 2 367 048

Tensioned pilot line can be provided with the addition of another WK55 kit.









# rescue equipment

## when it really matters...

heightec has developed the most advanced combination of dedicated rescue systems available anywhere.

Our focus on modular rescue systems began in 1997 when we created the PHOENIX harness and RESCUEPACK rescue system. The PHOENIX is now our most popular rescue harness and the most widely used harness in the UK fire service.

Our rescue systems are created for emergency services and industrial rescue teams, with tailored solutions available for all work at height industries.

Each system is designed to cover every aspect of rescue operation to enable the recovery of a casualty with maximum efficiency.

Rescue equipment must be easy to use in high pressure situations, it must withstand high loads and offer complete control to rescuers, whilst ensuring rescuer safety at all times.

The need for high margins of safety goes without saying.

Award winning - many of our innovative and purpose designed rescue products are patented and have won design awards.

Rescue systems can be configured to customer requirements, samples of rescue system are included in this section.



White paper on 'Rescue: A hierarchical approach' is available at [heightec.com/downloads](https://heightec.com/downloads) for details



## Automatic rescue and evacuation descender

**For rescue and evacuation in renewables, oil and gas, power, energy and construction industries.**

Multi-function capability for any rescue situation. Durable, reliable and strong. ROTOR combines optimum efficiency with superior control.

High load rating for rapid multiple casualty evacuation.

Friction horns give additional control for lowering a casualty.

Low profile compact design with no external moving parts that could snag and interrupt descent.

ROTOR works in both directions allowing multiple evacuees to use alternate rope ends. Can be switched between raise and lower at any point, even if under load.

- Lowering and lifting capability
- Repeated two person descents
- Direct drive enables quick lifting
- Active or passive operation
- Visible load indicator
- Sealed, IP64 waterproof mechanism\*
- Fully sealed system storage
- Highly durable and reliable
- Up to 10 years maintenance free

\*Not suitable for submersion

EN 341, EN 1496, CE EN 12841 C

Patented GB 2 515 341

Additional Friction

Direction lock

Lifts in either direction using 1/2 inch square ratchet driver

Visible load indicator

Completely sealed waterproof mechanism\* (IP64)

LOAD	MAX. DESCENT DISTANCE	DESCENT SPEED
140kg	4,500m	0.7ms
200kg	500m	1ms
250kg	220m	1.7ms



## ROTOR rescue system

### Self contained rescue system for self evacuation or recovery of a casualty

Allows the controlled rescue of a casualty by lowering or lifting.

- Waterproof ROTOR automatic descender
- Rescue reachpole extends up to 3.5m, allows immediate connection to harness of a person suspended after a fall (p.49)
- Modified scaffold hook (p.49) prevents accidental release of casualty
- Durable KARI 5 and KARI 50 bags with waterproof fabric and welded seams for demanding environments (p.35)
- DELTA casualty harness, simple to deploy and quick to fit (p.49)

System can be configured to customer requirements.

50m, 100m

# stretchers

## CHRYSLIS - MS01

**Versatile roll stretcher with unique integrated casualty harness for horizontal and vertical lifting**

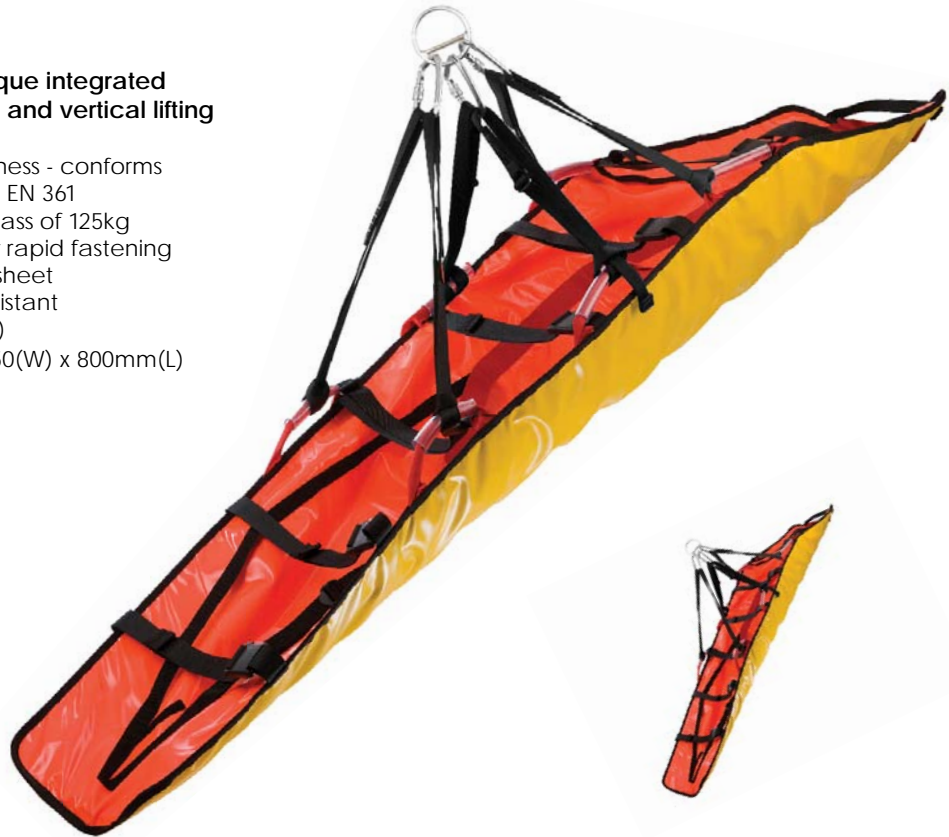
- Integral casualty restraint harness - conforms to performance requirements EN 361
- Tested with 4m fall with test mass of 125kg
- Six retaining straps aligned for rapid fastening
- Removable interior stiffening sheet
- High visibility and abrasion resistant
- Supplied in KARI 50 bag (p.35)
- Rolled dimensions: 250(H) x 250(W) x 800mm(L)

Patented

GB 2 403 422



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## TELSON - MS05

**3/4 length stretcher designed for use in confined areas, ideal for wind turbine rescue**

- Constructed of high strength stainless steel
- Casualty is supported in a reclined sitting position
- Removable bridle allows lifting in a horizontal or substantially vertical position
- Can be used for horizontal dragging or lifeline down slopes or steps
- Bridle straps can be separated for better access when loading the casualty
- Chest and leg straps hold the casualty securely and have quick connect buckles for rapid deployment



CODE	DESCRIPTION	CONFORMITY	RATING
MS01	CHRYSLIS	CE 93 / 42 / EEC (Class 1)	125kg
MMSB01	CHRYSLIS stretcher bridle only	CE 2007 / 47 / EEC (Class 1)	WLL 1 person
MS05	TELSON		140kg





## DELTA casualty harness - H43

### Ultra compact evacuation harness for lowering and lifting a casualty

- Ultra lightweight construction for easy transportation and stowage
- Elasticated waist helps to keep the harness in the correct position on the wearer and provides improved comfort and security
- Simple design enables swift deployment and fitting
- Durable materials provide long service life
- Quick and easy to fit
- Universal sizing

NB: Not designed or certified to arrest falls



## CASCADE - MR75

### Edge protector for multiple ropes

- Heavy duty stainless steel
- Double rope channels
- Rounded edge - reduces friction when hauling / lowering
- Asymmetric shape for increased stability

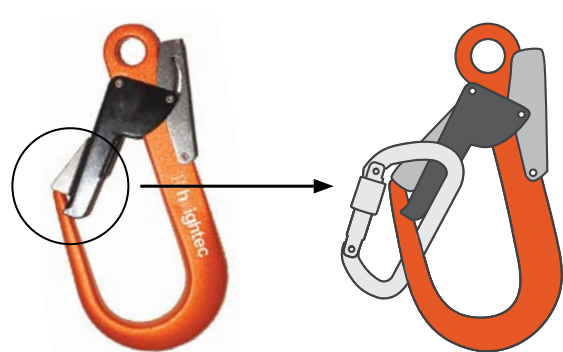


## Rescue reachpole - MSRM

### Locking extending rescue pole

Enables a rescue system to be attached to a person suspended after a fall. Use with modified scaffold hook.

- High strength, heavy duty design is rigid when fully extended
- Sturdy locking mechanism
- Unique quick release bracket
- Non-conductive
- Extends to 3.5m length



## Scaffold hook - CH01AM

Modified

Smooth modified gate profile prevents snagging and ensures correct attachment to the casualty, eliminating accidental release of casualty connector.

# Sample rescue equipment



## TOWERPACK tower rescue system

**For evacuation, lowering or pick-off recovery of a casualty from tall structures**

- POWERLOCK is an advanced descender with secondary braking, variable friction and high load rating - two person (p.25)
- Allows for fine control of descent speed
- Rope can be removed and re-threaded for multiple or repeat lowering operations
- Rescue shears allow disconnection of casualty's line without a need to off-weight
- VANTAGE 5:1 Locking pulley for transferring a casualty onto a rescue system (p.37)
- KARL transport bag (p.35)

50m, 100m



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**heightec**<sup>®</sup>  
with respect to gravity...™



## RESCUEPACK rescue system

Simple rescue system for the recovery of a suspended person from any situation, by raising or lowering

- Rescue reachpole extends to 3.5m to reach a casualty on an extended energy absorbing lanyard
- EGO for lowering and hauling (p.18)
- HURRICANE (p.39) allows quick and simple creation of pulley system at any point along the rope to deliver mechanical advantage of up to 3:1 with automatic locking

Comes complete with anchor sling, karabiner, screwlinks, rescue shears, terminated rope and modified hook.

25m, 50m

## Trademarks

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