Serving the rope access industry
Specialist products for work at height & rescue
heightec is a UK designer and manufacturer of technical equipment for specialist work at height and rescue.

We make innovative, market leading products for ascent, descent, work positioning and rescue, at our manufacturing site in Cumbria.

We are one of very few manufacturers of both textile and engineered metal fall protection products remaining in the UK.

Our low volume production methods use the highest specification materials and local suppliers wherever possible.

Being in complete control of every process allows us to maintain the highest quality standards to make high performing, durable products you can rely on every time.
heightec’s rope access range has several brand new products offering innovative solutions to traditional problems - such as the DUON helmet, EGO descender and FUSION back-up device.

We have also revisited existing models, making them lighter, stronger, simpler to use and easier to maintain.

All heightec products are tested beyond the requirements of international standards, combining exceptional performance with superior strength for demanding work environments.

**What you need, when you need it**

As long standing suppliers to time critical industries like energy, construction and the emergency services, we understand the need for an instant response.

We hold stock of all products for immediate shipping ensuring very low lead times.

Our technical support staff offer immediate advice on any aspect of product application and we are happy to provide individual product demonstrations by arrangement.

Visit heightec.com/stockists for a list of our stockists.
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
Harnesses

Comfort, fit & function...

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

**Generic features:**
- Multiple attachment points
- Reinforced gear loops with SWL
- 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 heightec.com/faqs to view our harness sizing guide
APEX integrated harness H001Q

The only harness offering an integrated yet replaceable chest ascender.

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

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.16)
- No tools needed to fit or remove ascender
- Features X-Cam™ technology

Patent Pending

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>ATTACHMENT POINTS</th>
<th>RATING (kg)</th>
<th>MEASUREMENTS (cm)</th>
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<tbody>
<tr>
<td>H22Q</td>
<td>EXTOL</td>
<td>EN 358, EN 361</td>
<td>Sternal</td>
<td>Dorsal</td>
<td>Lateral</td>
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<td>H22QL</td>
<td>EXTOL quick, large</td>
<td>EN 813, EN 361</td>
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<tr>
<td>D44</td>
<td>SYNC chest ascender</td>
<td>EN 567, EN 12841 (B)</td>
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</tr>
</tbody>
</table>

Q = SafeLock™ quick connect buckles
AURA modular system H002Q

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

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

EC LIPSE sit harness

Features:

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

<table>
<thead>
<tr>
<th>CODE</th>
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<tr>
<td></td>
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<td>Sternal Dorsal Lateral Waist</td>
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<td>Torso Waist Thigh</td>
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<tr>
<td>H52</td>
<td>CORONA chest harness, rear D Sternal screwlink included</td>
<td>EN 361 when attached to ECLIPSE</td>
<td>● ● - -</td>
<td>140 (with ECLIPSE)</td>
<td>- - -</td>
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<tr>
<td>D44</td>
<td>SYNC chest ascender</td>
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<td>- - - -</td>
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<td>- - -</td>
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<tr>
<td>H02Q</td>
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<td>- - ● ●</td>
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<td>70-140 60-80</td>
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</table>

Q = SafeLock™ quick connect buckles
HALO modular system H003

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

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 and supreme comfort
- 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 for multiple attachments
- Elastic rear leg loop straps
- Reinforced gear loops 20kg SWL
- Elasticated web tidies to stow webbing

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>ATTACHMENT POINTS</th>
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<tr>
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<td></td>
<td></td>
<td>Sternal</td>
<td>Dorsal</td>
<td>Lateral</td>
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<tr>
<td>H53</td>
<td>SOLAR chest harness</td>
<td>EN 361 when attached to SHADOW</td>
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<td></td>
<td>Sternal screwlink included</td>
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<td>D44</td>
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<tr>
<td>H01</td>
<td>SHADOW sit harness</td>
<td>EN 813</td>
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</tbody>
</table>

sales@heightec.com  sales line: 01539 728866
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.
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

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
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<tr>
<td>D35</td>
<td>EGO™ descender</td>
<td>EN 12841 (C)</td>
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</table>
**FUSION back-up**

coming soon

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.

Fully functional with normal dynamic rope lanyards (cowstails).

No energy absorber needed.

**SIMPLE**

Tows freely with a cowstail, without user intervention.

Works in all situations – on slopes, 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.

**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

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

Operation:

High load V Lock pivoting friction cam - squeezes rope against brake block.

Wheel - rope runs between wheel and V cam as device is towed up or down.

Speed sensing mechanism - stops device automatically in event of a fall or if user descends too quickly.

High strength magnetic tow hook - releases cowstail in event of a fall, transferring load and causing brake to engage.

Brake block - arrests fall with minimal slippage.

Wheel - rope runs between wheel and V cam as device is towed up or down.

1. Wheel
2. Speed sensing mechanism
3. High strength magnetic tow hook
4. High load V Lock pivoting friction cam
5. Brake block

fig. 1 - Ascent
Clip dynamic rope lanyard (cowstail) to attachment point. Ascend as normal, towing FUSION up by cowstail.

fig. 2 - Descent
Place cowstail into hook. Descend as normal, FUSION tows down automatically.

fig. 3 - Deployment
In event of a fall, cowstail is automatically released.

fig. 4 - Fall Arrest
Load bearing cam operates immediately.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>RATING - NORMAL USE (kg)</th>
<th>WEIGHT (kg)</th>
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<tbody>
<tr>
<td>D25</td>
<td>FUSION™ back-up</td>
<td>EN 353-2, EN 358, EN 12841 (A)</td>
<td>Two person rescue</td>
<td>0.35</td>
</tr>
</tbody>
</table>

sales@heightec.com
sales line: 01539 728866
**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.

Video available online: heightec.com/downloads

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**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 (see pages 10 - 13)
- 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

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<table>
<thead>
<tr>
<th>CODE</th>
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<th>CONFORMITY</th>
<th>RATING - NORMAL USE (kg)</th>
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<tr>
<td>D44</td>
<td>SYNC chest ascender</td>
<td>EN 567, EN 12841 (B)</td>
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</table>

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Video available online: heightec.com/downloads
**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

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**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

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**TWIST - D42**

**Chest ascender**
- Can be used with a full body harness or used to link chest and sit harness
- Profiled attachment points and slimline design

Rope diameter: 10 - 13mm

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<table>
<thead>
<tr>
<th>CODE</th>
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<th>CONFORMITY</th>
<th>RATING - NORMAL USE (kg)</th>
<th>WEIGHT (kg)</th>
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<td>D40L</td>
<td>PULSAR ascender - left-handed</td>
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<td>D41</td>
<td>COMPACT ascender</td>
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<td>0.16</td>
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<td>D42</td>
<td>TWIST chest ascender</td>
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</table>
energy absorbing lanyards

NEW

ELITE lanyards

Superior energy absorbing lanyards with integrated footloop for technical work at height.

Features:

• High load rating
• Replaceable cover offers increased durability and ease of inspection
• Patented high twist HELIX™ rope eliminates kinking in lanyard legs
• Built in suspension relief footloop
• Large central clip back ring
• Unique serial ID number

Approved for users up to 140kg, Fall Factor 2.

<table>
<thead>
<tr>
<th>HARNESS CONNECTOR</th>
<th>ANCHORAGE CONNECTOR</th>
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<tbody>
<tr>
<td>Oval screwlink (M)</td>
<td>Triple action karabiner (T)</td>
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<tr>
<td></td>
<td>Scaffold hook (S)</td>
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ELITE twin - L2M125S

See length options

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>LENGTH (m)</th>
<th>LOADING (kg)</th>
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<tbody>
<tr>
<td>L2M125S</td>
<td>ELITE™ twin lanyard - oval, 1.25m, scaffold hooks</td>
<td>EN 354</td>
<td>1.25</td>
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<tr>
<td>L2M150S</td>
<td>ELITE™ twin lanyard - oval, 1.50m, scaffold hooks</td>
<td>EN 355</td>
<td>1.50</td>
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<tr>
<td>L2M175S</td>
<td>ELITE™ twin lanyard - oval, 1.75m, scaffold hooks</td>
<td>EN 362</td>
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<tr>
<td>L2T125S</td>
<td>ELITE™ twin lanyard - triple action, 1.25m, scaffold hooks</td>
<td>EN 354</td>
<td>1.25</td>
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<tr>
<td>L2T150S</td>
<td>ELITE™ twin lanyard - triple action, 1.50m, scaffold hooks</td>
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</table>
NEW

PIRANHA adjustable lanyards

Versatile, adjustable lanyard with lengths up to 20m for roofs and sloping situations.

Features:
- Replaceable rope
- Choice of connectors
- Locks automatically when loaded
- Smooth single handed adjustment
- Visible load indicator

Patented GB 2 543 699

PIRANHA - LA02

See length and connection options

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
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<th>RATED LOAD (kg)</th>
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<td>LA02</td>
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<td>EN 358</td>
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<td>LA02H</td>
<td>PIRANHA™ adjustable lanyard - 2m, hook</td>
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<tr>
<td>LA02S</td>
<td>PIRANHA™ adjustable lanyard - 2m, scaffold hook</td>
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<tr>
<td>LA02T</td>
<td>PIRANHA™ adjustable lanyard - 2m, twistlock</td>
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<td>LA03</td>
<td>PIRANHA™ adjustable lanyard - 3m, no connectors</td>
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<td>LA03H</td>
<td>PIRANHA™ adjustable lanyard - 3m, hook</td>
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<tr>
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<td>LA20</td>
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* Safety hook supplied with oval screwlink / twistlock supplied with karabiner.
Replacement rope options available, see heightec.com
Introducing new load control devices

A new way to lower and control light to medium loads smoothly. Features auto locking offset pulley mechanism.

**NEW**

**TORNADO pulley system**

System will auto lock if user accidentally lets go of device.

- Locking function reduces risk of dropped objects when hand hauling.

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

**TORNADO or TWISTER system**

- Can be used in compound pulley systems to increase mechanical advantage with higher loads.

**TWISTER - D71**

Unique locking cam

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

**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 in hand hauling systems.

- One way sealed bearing system in main cam allows pulley to rotate freely when lifting
- Functions as a pulley when lifting for minimum friction
- Simple tilt operation for controlled lowering
- Locks if released when lifting or lowering

Rope diameter: 10.5 - 12mm

Patented GB 2 437 793

<table>
<thead>
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<tr>
<td>D71</td>
<td>TWISTER</td>
<td>2006 / 42 / EC</td>
<td>10kg</td>
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**HURRICANE - D431**

**Unique alloy rope grab with pulley**

Allows creation of instant 3:1 pulley system, in conjunction with a locking hauling device.

- Intuitive, compact and lightweight
- Simple to use than separate components
- Quick and easy to attach to a loaded rope
- Self locking pulley catch with simplified operation
- High performance X-Cam™ locking mechanism

Rope diameter: 10.5 - 11mm

Option: Stainless steel - D43

Patented GB 2 410 235

**CYCLONE - P201**

**Heavy duty alloy pulley with locking cam**

Specifically designed to aid hauling of equipment and materials.

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

Not certified for lifting persons

Rope diameter: 10.5 - 11mm

**TORNADO and HURRICANE pulley system**

For Zrig type operations. System can be reset as many times as required.

**Basic lifting system (WK52)**

Using the CYCLONE lifting and locking pulley for simple hauling operations.

<table>
<thead>
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<td>D43</td>
<td>HURRICANE™ Pro rope grab (s/steel)</td>
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<tr>
<td>P201</td>
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</table>
pulleys & connectors

**Personal pulley - P01**
- Aluminium fixed sides
- Aluminium 2cm wheel

**Rescue pulley - P02**
- Aluminium swivel sides
- Nylon 5cm wheel

**Rescue Pro pulley - P04**
- Stainless steel swivel sides
- Nylon 5cm wheel

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>MBL (kN)</th>
<th>WLL (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>Personal fixed pulley - 2cm</td>
<td>EN 12278</td>
<td>26</td>
<td>260</td>
</tr>
<tr>
<td>P02</td>
<td>Rescue pulley - 5cm</td>
<td></td>
<td>30</td>
<td>300</td>
</tr>
<tr>
<td>P04</td>
<td>Rescue Pro pulley - 5cm (steel)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Alloy karabiners**
- **ALTAIR - CKA1**: Screwgate D
- **ALTUS - CKA2**: Screwgate D
- **ALTO - CKA5**: Triple action Oval
- **CONTRACT - CKS0**: Screwgate Oval - CKS0 Bundle x100 - CKS0100
- **ASTRA - CKS2**: Screwgate D

**Steel karabiners**
- **CSN**
  - Oval screwlink 8mm, 10mm
- **CSP10**: Pear screwlink

**Screwlinks**

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>BAR DIAMETER (mm)</th>
<th>GATE OPENING (mm)</th>
<th>STRENGTH (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA1</td>
<td>ALTAIR™ screwgate D</td>
<td>EN 12275</td>
<td>11</td>
<td>21</td>
<td>28</td>
</tr>
<tr>
<td>CKA2</td>
<td>ALTUS™ screwgate D</td>
<td>EN 362 : 2004/B</td>
<td>13</td>
<td>22</td>
<td>28</td>
</tr>
<tr>
<td>CKA5</td>
<td>ALTO™ triple action oval</td>
<td>EN 362 : 2004/B</td>
<td>12</td>
<td>19</td>
<td>22</td>
</tr>
<tr>
<td>CKS0</td>
<td>CONTRACT™ screwgate oval</td>
<td>EN 362 : 2004/B</td>
<td>10</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>CKS2</td>
<td>ASTRA™ screwgate D</td>
<td>EN 362 : 2004 - M</td>
<td>11</td>
<td>20</td>
<td>45</td>
</tr>
<tr>
<td>CSN08</td>
<td>Oval (steel) - 8mm</td>
<td>EN 362, EN 12275</td>
<td>-</td>
<td>11</td>
<td>25</td>
</tr>
<tr>
<td>CSN10</td>
<td>Oval (steel) - 10mm</td>
<td>EN 362, EN 12275</td>
<td>-</td>
<td>14</td>
<td>55</td>
</tr>
<tr>
<td>CSP10</td>
<td>Pear (steel) - 10mm</td>
<td>EN 362, EN 12275</td>
<td>-</td>
<td>20</td>
<td>26</td>
</tr>
</tbody>
</table>
KARI transport bags

Tough, multi-purpose, roll top transport bags

All the features of traditional dry bags for work at height but with increased protection.

Features:

• Rucksack style carrying straps
• Roll top closure
• High strength fully welded seams
• Totally waterproof
• Lockable side fasteners
• Load rated daisy chain
• Reinforced base
• Clear document pocket
• Rated with WLL

Meets requirements of IPX7 - accidental immersion in water.

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

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

---

**TORRENT - MR85**

*Multi layered edge pad*

Inner padded layer protects against abrasion and smooths rough edges e.g. stone or concrete

- Heavy duty, triple layer construction
- Includes attachment cords
- Captivates rope while allowing visibility - use cord or a karabiner (not supplied)

---

### application guide

<table>
<thead>
<tr>
<th>EDGE PROTECTORS (attach to the structure)</th>
<th>MID-ROPE PROTECTORS (attach to the rope)</th>
<th>SPECIAL APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Graphics]</td>
<td>[Graphics]</td>
<td>[Graphics]</td>
</tr>
<tr>
<td><strong>ABRASIVE</strong></td>
<td>CASCADE</td>
<td>TORRENT</td>
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</table>

<table>
<thead>
<tr>
<th>SHARP</th>
<th>CASCADE</th>
<th>TORRENT</th>
<th>SENTINEL</th>
<th>DURA</th>
<th>MANTLE</th>
<th>GRATEMATE</th>
<th>GRATEMATE PLUS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>GRATING</th>
<th>CASCADE</th>
<th>TORRENT</th>
<th>SENTINEL</th>
<th>DURA</th>
<th>MANTLE</th>
<th>GRATEMATE</th>
<th>GRATEMATE PLUS</th>
</tr>
</thead>
</table>

Guidance is based on both damage resistance and stability of the protector. It is not possible to describe all applications and combinations. Always confirm that the chosen method provides sufficient protection before committing to it.

- ✓ recommended use
- ! use with caution
- x not recommended
edge protection

**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 diameter

**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 diameter

Registered Design 5003381

**SENTINEL - MR705**
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)

**DURA - MR80**
Multi layered rope protector for abrasive edges

- Inner aramid layer increases abrasion resistance
- Outer canvas layers resist rope friction
- Includes attachment cord
- Velcro closure

50cm, 100cm

**MANTLE - MRP05 / MRP10**
Canvas rope protector suitable for abrasive blunt edges

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

50cm, 100cm
## anchors & slings

### Protected nylon sling - **S25N***P
- 25mm diameter protected sling
- High visibility protective sleeve
- Unique serial ID number

- **Lengths:** 30cm, 60cm, 120cm, 240cm

### Nylon sling - **S25N***
- 25mm width round sling
- Unique serial ID number

- **Lengths:** 30cm, 100cm, 120cm, 240cm

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

- Options: Galvanised or stainless steel, with or without thimbles and sleeves

- **Lengths:** 50cm, 100cm, 150cm, 200cm

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A***</td>
<td>Anchor strop - 7mm, (g/steel)</td>
<td>EN 354 EN 795 (B)</td>
<td>300kg WLL</td>
</tr>
<tr>
<td>AS***</td>
<td>Anchor strop - 7mm, (g/steel), soft eye</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASA***</td>
<td>Anchor strop, 7mm, (s/steel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASS***</td>
<td>Anchor strop, 7mm, (s/steel), soft eye</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD***</td>
<td>PYTHON ™ lanyard - 60cm, 100cm</td>
<td>EN 354</td>
<td>SWL 1 person</td>
</tr>
<tr>
<td>S25N***</td>
<td>Round sling, nylon</td>
<td>EN 354</td>
<td></td>
</tr>
<tr>
<td>S25N***P</td>
<td>Protected sling, nylon</td>
<td>EN 354 EN 566 EN 795 (B)</td>
<td></td>
</tr>
</tbody>
</table>

*** Denotes length

### PYTHON lanyard - **LD060 / LD100**
- For work restraint or fall arrest
- 11.5mm diameter dynamic rope lanyard
- Sewn termination

- **Lengths:** 60cm, 100cm

### Dyneema sling - **S12D017**
- Sewn nylon sling
- 23kN strength rating
- 12mm diameter

- **Length:** 17cm
**Footloops**

For ascending a rope or aid climbing

- Reinforced, durable steps
- Lightweight and compact

Adjustable one step can be modified for a range of lengths

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>LENGTH (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMFL1</td>
<td>Adjustable footloop</td>
<td>84-110</td>
</tr>
<tr>
<td>MMFL3</td>
<td>Three step footloop</td>
<td>103</td>
</tr>
<tr>
<td>MMFL4</td>
<td>Four step footloop</td>
<td>110</td>
</tr>
<tr>
<td>MMFL5</td>
<td>Five step footloop</td>
<td>153</td>
</tr>
</tbody>
</table>

**MESA workseat - MMWS1**

For additional comfort when working from a suspension harness

- Fully adjustable length
- Tool / accessory attachment points
- Marine ply seat with foam padding
- 50cm wide, SWL 1 person

Non PPE
**TECTRA™ low stretch rope**

Low stretch kernmantle ropes are suitable for suspension of a load yet capable of absorbing energy in the case of a fall with a fall factor less than one.

High twist polyamide yarn gives excellent handling characteristics and knotability, making them wear resistant and durable.

Tightly woven sheath protects the core from UV light, cutting, dirt and abrasion.

Minimum Breaking Load (MBL)
- 32kN - unknotted
- 22kN - sewn
- 18kN - knotted

- High strength
- Special treatment for improved characteristics when wet
- Termination process on spool ends to give the perfect end seal
- Thermostabilisation of yarn at different stages of production

10.5mm is generally used for rope access

### Table: Specifications

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>DIAMETER (mm)</th>
<th>SHEATH SLIPPAGE</th>
<th>SHRINKAGE</th>
<th>1.5kN ELONGATION (when in use)</th>
<th>WEIGHT (g/m)</th>
<th>SHEATH SHARE</th>
<th>MBL (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS105</td>
<td>TECTRA™ low stretch rope - white</td>
<td>EN 1891 (A)</td>
<td>10.5</td>
<td>0.02% based on 200m of rope</td>
<td>6.5%</td>
<td>5%</td>
<td>72</td>
<td>37%</td>
<td>32kN</td>
</tr>
<tr>
<td>RS110</td>
<td>TECTRA™ low stretch rope - white</td>
<td>EN 1891 (A)</td>
<td>11</td>
<td>75</td>
<td>35%</td>
<td>75</td>
<td>3%</td>
<td>35%</td>
<td>22kN</td>
</tr>
<tr>
<td>RS110G</td>
<td>TECTRA™ low stretch rope - gold</td>
<td></td>
<td>11</td>
<td>75</td>
<td>35%</td>
<td>75</td>
<td>3%</td>
<td>35%</td>
<td>18kN</td>
</tr>
</tbody>
</table>

Priced per metre, sold in 50m lengths

### ENERGIS™ 10mm dynamic rope - RD100

Dynamic rope used for rope access cowstails.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>DIAMETER (mm)</th>
<th>NUMBER OF FALLS</th>
<th>WEIGHT (g/m)</th>
<th>MBL (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD100</td>
<td>ENERGIS™ dynamic rope</td>
<td>EN 892</td>
<td>10</td>
<td>7</td>
<td>67</td>
<td>9kN</td>
</tr>
</tbody>
</table>

Priced per metre
Accessory cord

3mm, 200m - RA03

4mm, 125m - RA04

5mm, 100m - RA05

6mm, 200m - RA06

- Polyester accessory cord - sold in reels, available in a range of diameters
- Colours may vary from images shown

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>CONFORMITY</th>
<th>DIAMETER (mm)</th>
<th>MBL (kN)</th>
<th>LENGTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA03</td>
<td>Accessory cord - 3mm</td>
<td>EN 564</td>
<td>3</td>
<td>1.5</td>
<td>200</td>
</tr>
<tr>
<td>RA04</td>
<td>Accessory cord - 4mm</td>
<td></td>
<td>4</td>
<td>4</td>
<td>125</td>
</tr>
<tr>
<td>RA05</td>
<td>Accessory cord - 5mm</td>
<td></td>
<td>5</td>
<td>6</td>
<td>100</td>
</tr>
<tr>
<td>RA06</td>
<td>Accessory cord - 6mm</td>
<td></td>
<td>6</td>
<td>9.4</td>
<td>200</td>
</tr>
</tbody>
</table>
rope access
your kit, your way

Our range of high specification rope devices, harness options and accessories enables you to build the perfect kit to suit you and your work.

Standard components

DUON-Air helmet
• Dual certification with variable buckle release force
• Adjustable ventilation system
• 10 year lifespan due to high level of UV resistance

EGO descender
• Predictable, progressive braking action
• Long lifetime for demanding environments
• Maximum rated load 200kg - two person rescue

FUSION back-up
• Suitable for two person rescue, no additional energy absorber required
• High load cam grips rope in two places
• Self parking capability even after extended use

SYNC chest ascender
• Unique webbing attachment slots directly onto harness
• Sits tightly against the chest for efficient ascending and supreme comfort
• No tools needed to fit or remove ascender
• Features X-Cam™ technology

PULSAR ascender
• Does not jam, even against a knot
• Exceptional grip but won’t pluck the rope
• Perfect for down climbing and rope manoeuvres

KARI 30L transport bag
• Multi purpose waterproof roll top bag
• High strength welded seams
• Rated 18kg WLL

APEX integrated system - H001Q

EXTOL harness with SYNC ascender
• EXTOL full body quick connect harness, fitted with integral SYNC chest ascender
• Close fitting ascender gives a more efficient ascent
• Replaceable components allow a longer lifespan
**rope access kits**

**FUSION D25**
coming soon

**SYNC D44**

**PULSAR D40**

**KARI 30L B30**

**2 AURA modular system - H002Q**

**CORONA chest harness**
- Lightweight foam shoulder padding
- Integral connection fitted with SYNC chest ascender
- Front and rear D attachment points

Compatible with ECLIPSE sit harness

**ECLIPSE sit harness**
- High semi-rigid padded waist for superb support
- Quick connect leg buckles with padding for comfort
- Large waist D for multiple attachments

Compatible with CORONA and SOLAR chest harnesses

**3 HALO modular system - H003**

**SOLAR chest harness**
- Lightweight shoulder webbing
- Front fall arrest attachment point
- Integral connection fitted with SYNC chest ascender

Compatible with SHADOW and ECLIPSE sit harness

**SHADOW sit harness**
- Low profile waist and leg padding
- Large waist D for multiple attachments
- Elastic rear leg loop straps

Compatible with SOLAR chest harnesses