



HELIX



Helix Operations provide a complete capability for vertical access and rescue in mountain, maritime and urban environments.

We are based in the mountains of North Wales and have a heritage of over 40 years supplying tactical climbing solutions to end users. Over that time, we have worked with and become a main supplier of tactical climbing equipment to the UK MOD and have provided equipment and systems to many other nations.

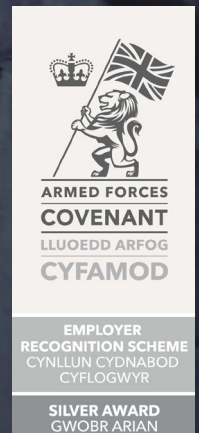
The capability offered by our close relationship with DMM has been extended by partnering with manufacturers such as CTOMS, Henriksen, HQH, Protection, Rock Exotica, Highnovate and Cadex Defence to offer complete solutions for working at height in a tactical environment.

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To be the leading worldwide provider of comprehensive vertical access, rescue and mobility capabilities to the tactical operator in the mountain, urban and maritime environments.

To support vertical access operations for the tactical operator with a range of services including:

- Advice
- Equipment
- Training
- Servicing



Key Brands

REBS®

REBS supply many critical components of any maritime or urban access system. Rapid Entry Boarding Systems - the best maritime boarding equipment that also works well for urban operations. They supply the best grapnel launchers and the lightest carbon ladder systems on the market.



HQH SYSTEM

Robust carbon ladder systems - these are the go to ladders if TLC is in short supply. The FIX-LITE being the new ladder of choice for dismounted troops in urban environments with the ATV carbon bridge ladder demonstrating how tough carbon can be.



The best motorised ascenders on the market with a real-life combination of versatility, ruggedness and battery life that is hard to beat.

CTOMS™

CTOMS was founded on the concept of evolving tactical medicine and expanded to encompass aspects of remote and improvised rescue. A key part of this evolution was the development of the TRACE™ system as micro rope system with a comprehensive capability that includes access, egress, hauling and high-lining. CTOMS are our longest standing partner and Helix are one of the very few authorised providers of training for the TRACE™ system.

LIBERVIT

LIBERVIT are an French company with over 25 years in design and manufacture of hydraulic tools and manual equipment for the industry, the special forces and the rescuers.



The DMM International group specialise in the manufacture of equipment and systems for operating safely at height. They have proudly manufactured all their hardware in the United Kingdom since 1981 and over that time they have established a reputation for innovation and quality.

PROTECTION

As part of the same group of companies Helix Operations rely heavily on DMM to design, prototype and manufacture much of the core product in our range.



An impressive micro rope system that is very intuitive to use, fast to deploy and incredibly robust. The system that came top in a recent egress system tender and impressed with its ability to meet the criteria of EN341 with a 160kg load.

Innovative rescue equipment designed and made in their factory in the USA. The range includes products that complement the DMM range of hardware - the Aztec pulley system, the Omni pulleys and the Arizona Vortex are all unique products that we are proud to offer.



Forward thinking equipment and systems designed by former operators to address gaps in current vertical assault capability. The QRAB is a class leading descender for medium diameter ropes that allows fast disengagement whilst the RAFA portable anchor gives security where normal anchors are not viable.



Precision engineering from the USA that specialises in high end rifle systems, but also produce the best small ledge hooks on the market.

Marlow

Designed and manufactured in the United Kingdom with a reputation for outstanding quality and a long history of providing specialist rope solutions to military and rescue units. Marlow Ropes have a proven record as a key manufacturer of quality ropes for access, rescue and specialist products for use in helicopter operations.





Rope Rescue Capability

Established, proven and deliverable Rescue capability in Remote Environments.

Whether as part of a documented rescue plan when conducting another task, or as part of an established Mountain or Rope Rescue team. Rescue operations due to the fact they are dynamically evolving events in hazardous or deteriorating conditions against a compressed or collapsing timeline, are one of the most difficult tasks to train and deliver safely.

The ability to employ equipment that has been proven and compatibility tested with other components utilising proven techniques, provides the greatest degree of safety margin for the rescuers and increases the likelihood of a successful resolution for the casualty or casualties.

Helix Operations provide equipment capabilities built on the best components from across the vertical access and rescue industry and combine these with training packages to ensure they are employed appropriately and to their full potential.

Med Sled® VLR

The Med Sled® Vertical Lift Rescue stretcher offers a compact, lightweight and comprehensive rescue capability for remote and confined space environments.

The Med Sled® VLR can be dragged, lifted horizontally or lifted vertically. It can be used on land or in water.

In addition, it has been tested by both the US Military and Canadian Search and Rescue and has passed all their air worthiness standards / requirements for both land and water rescues.

The Med Sled® VLR system deploys quickly, is intuitive to use and has a minimal training burden - these features all help to ensure that extraction is as fast as possible and make it perfect for use in less than ideal situations; poor visibility, cold gloved hands, confined spaces or hot zones.

A compact, lightweight and comprehensive rescue stretcher.

Lifting straps are built into the body of the stretcher.

Suitable for remote and confined space environments.

Deploys quickly and has minimal training burden.



DMM Keanu

Compact trolley for highline rigging and rescue operations. If precision, speed and efficiency are important in your reeve, then the Keanu is your answer. By incorporating multiple sheaves within fixed side plates, not only have we ensured that you won't forget critical rigging components, we have created a trolley that makes it easier to lift and move loads with precision and speed.

Keanu is lighter and smaller than highline assemblies configured using multiple components. Series redundancy can be configured with the addition of pulleys and lines via quick release locking pins. Two Keanu trolleys can be bolted together to create parallel redundancy. All components are replaceable, so maintenance can be carried out by end users, making these trolleys ideal for rescue teams, arborists and theatre riggers.



DMM Rigging Plates and Hubs

DMM Bat Plates raise the bar in design, performance and strength. Precision machining and heat treatment make them strong, light and incredibly versatile. The Bat shape minimises height loss in complex rigging scenarios and generous radii allow direct attachment of textiles as well as connectors. The oversized central hole allows for effortless centralising of connections and gives a perfect technician clipping point.

Complex 3D rigging focused onto a single anchor. The DMM rigging hub can be used to form a super strong centralised anchor point for use in treework, rope access and rescue. Radiused surfaces throughout allow direct rope or textile attachment - this includes running ropes, girth hitched slings, tied in prussiks, etc. Use of multiple 3D anchors often allow the hubs to be used as a lightweight alternative to a tripod for edge management or targeted lifting points e.g over a manhole or cave entrance. Certified to our in-house Linking Components standard.

Centralised connection point for stable rescuer attachment.

Four sizes for all rigging configurations.



Textile friendly surfaces with large radii.

Can be bolted together for '100% redundancy' in system.

DMM Gyro PM

Developed in conjunction with our industry partners, the Gyro offers excellent performance in any rigging scenario.

The Gyro PM features prusik minding side plates that mean it can be used in efficient progress capture hauling systems.

The Gyro range features three models: single sheave; single sheave prusik minding; and dual sheave prusik minding with becket. All feature sealed roller bearings and rope friendly fairleads to maximise efficiency.

DMM iD is built into every Gyro pulley, so the range can be easily integrated into PPE safety management systems.

Manufactured in tactical colours it is suited to military and tactical climbing operations in both mountain and urban environments.



Prusik minding side plates allow progress capture when used in hauling systems.

Compact design reduces system height.

Roller bearings for increased efficiency.



Fairlead flares increase efficiency.

Compact design reduces system height.

Hot forged body reduces wear on ropes.

Rock Exotica® AZTEC Pulley System

The AZTEC system is a Personal Mechanical Advantage kit which can be configured as a 5:1, or 4:1 with a re-direct by just rotating the system. The pulleys are machined from solid aluminium and they feature swivel connection points.

The system can be used as a pick off, adjustable directional, high directional guyline, high angle attendant tether, high angle litter scoop, load release hitch and much more.



The system uses a P41 AZTEC Double Pulley.

The AZTEC was designed for use with sewn Prusiks made by Sterling Rope and an 8mm main rope with a sewn end to attach to the side of the pulley. Note that the Prusik is a special "3 on 2". This is used because it cannot come off the rope like a traditional Prusik can.

P41 SET rigged with 8mm rope and 6mm Prusicord.



Skylotec SPARK Tactical

The Skylotec SPARK Tactical is an auto locking descender based on the successful Sirius descender, but with features optimised for the tactical user.

It is certified for use on a wider range of rope diameter ropes (9.0mm to 11.0mm) and this allows the use on skinnier, lighter ropes. The descender is certified be used on both static and dynamic ropes.

The anti-panic function has been removed to allow fast descents to be made without having to worry about triggering the brake - control is simple pull back to go, pull back harder to go faster and slow down by letting the handle return. Hard stops are made by just letting go.

The auto-returning operating lever has a particularly small radius of motion so that you can work fast, accurately, more comfortably and safely.

The Skylotec SPARK Tactical retains the ability to descend with 250kg rescue loads and during rope insertion, the carabiner can stay connected to both the harness and the device.

Intuitive and simple, the Skylotec SPARK Tactical sits perfectly in the hand.

Developed for extended use under the toughest of conditions. That's why it is made of up to 100 % metal. It should not be forgotten that the Skylotec SPARK Tactical retains the outstanding handling of the Sirius thanks to compact design and intuitive route of the rope.



Harken Industrial™

CMC CLUTCH™

The CMC CLUTCH™ is a multi-purpose device for hauling, controlled lowering, smooth personal descent, easy ascending and reliable progress capture. It offers efficient operation and optimal control for the technical rope professional.

It serves as a personal descender with efficient ascending capability, as well as a traditional raise/lower system.

- Rope Size: 10.5-11mm / 7/16in
- Weight: 836g / 1.84lbs
- Dimensions: 208 x 112 x 47mm / 8.2 x 4.4 x 1.9in
- Max Loads: 272kg / 600lbs
- 3-Sigma MBS Pulley 40kN 8,992lbf / Becket 22kN / 4496lbf
- Certifications: NFPA 1983 (2017 ED) GENERAL USE; ANSI/ASSE Z359.4-2013; EN 12841: 2006/C; EN 341: 2011/2A; EN 15151-1: 2012/8



Features a faceted ratcheting sheave of stainless steel.

Combines the attributes of more expensive multipurpose devices with those of less sophisticated wearable personal descenders.

The double latched side-plate is independent of the devices attachment point.

Features a faceted ratcheting sheave of stainless steel.



Rock Exotica Arizona Vortex

The Rock Exotica Arizona Vortex is an artificial high directional system and anchor point. It offers unlimited versatility and configuration options for rescues, lowers and hauling of equipment across all types of terrain, buildings and structures.

The Vortex can be rigged as a tripod, bi-pod and gin pole. This is possible because the Vortex's two-piece head set allows for it to be rigged as a standard tripod or in advanced applications as an easel A-Frame, A-Frame, sideways A-Frame and also as a gin pole. It has fully adjustable, telescoping legs that allow it to be rigged in the most challenging mountain or urban terrain.

Importantly for equipment designed to be used in remote locations in poor conditions, it is intuitive and fast to be set up. Transport options are maximised by the Vortex system breaking down into four separate bags. Winches are easy to attach if they are needed to ease and expedite raises and lowers.

The Arizona Vortex with other Rock Exotica products such as the Omni Block pulleys, AZTEC hauling system and Kootenay tyrolean pulley, meet virtually any requirement for a portable AHD system. All of these are available in subdued colours. A special production run in black offers a better suited option for tactical climbing and rescue operations.



Tactical Training

Helix Operations deliver training in all aspects of vertical movement across all types of terrain. We utilise a core team of instructors who are experienced in operating tactically in these environments, our consultants experience covers tactical employment. Rescue and mountaineering ensuring our training is both current and relevant to the end user.

All our courses are tailored and refined to ensure they are pertinent to the end user because we are aware that no two situations or requirements are the same. We ensure that core skills and techniques are covered on all courses to ensure interoperability between organisations.

Our consultants hold the relevant military or civilian qualifications, we can if requested provide training and accreditation to the UK National Governing body standards.

Core skills:

- Vertical movement. The ability to move teams and individuals safely and efficiently through complex terrain.
- Micro rope systems. Micro rope systems in all environments; this provides a lightweight expeditionary capability for experienced users.
- Rope Rescue. We are accredited Rescue 3 provider able to provide internationally accredited Rope Rescue training that is appropriate to the tactical user.



CTOMS





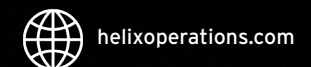
Connect With Us



Keep updated with Helix operations across platforms such as helixoperations.com, Tactical and Rescue Instagram accounts as well as LinkedIn. We share exciting information regarding products we manufacture ourselves as well as key products from brands we work with.

Stay informed with key innovations across all product ranges in the tactical and rescue field as well as new courses.

Our website lists our entire range, including any certifications, technical specifications, and variations of products. You can also find information regarding courses and training, including our accreditation.



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Helix Operations evolved out of DMM International when it became apparent that there was a need for a specialist company to support the government, tactical, and rescue markets.

DMM International has a global reputation as a leading manufacturer of superior height safety equipment and has supplied the UK and overseas military and government institutions with equipment since 1985. Growing demand for a broad range of complete, specialist systems where all components are selected and proven to work together led to Helix being founded on this broad wealth of expertise and experience. With a remit to bring together a portfolio of the best equipment, the resulting partnerships with companies such as REBS, CTOMS, and Atlas amongst others have allowed us to offer a complete capability for vertical access and rescue across Urban, Mountain, and Maritime environments.

Helix's mission is to provide the tactical end user with the very best equipment and systems for vertical access, egress, and rescue scenarios.

We understand that first class equipment is only one part of the equation, and that without a trained operator or enabler it is unlikely to be utilised to its true capacity. That is why Helix also offers training packages alongside systems and kit. Training can be delivered through a range of options; from standard courses for the operator, maintainer, or supervisor, through to bespoke courses covering specific scenarios. These training courses are either accredited by Helix or through external validation depending on the end user requirement and course syllabus.



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