



HELIX

Delta Tactical Ladder (DTL)



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, systems and training 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.

ICAGE: U1AG3
Company Number: 10316654
DUNS: 221986629
NCAGE: U1AG3

Our Mission Statement:

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



Delta Tactical Ladder

A unique assault tactical ladder system where the carbon fibre ladder rungs form an integrated extension pole

The system gives a hook and pole system that is very compact, light, fast and quiet to deploy and also very strong. The ladder comes with a Helix Urban Hook and Ghost Carabiner to give a complete hook and pole capability for urban environments.

The system was designed by a former Delta operator to provide a practical solution to access issues he had encountered whilst in the field.

The DTL is far more packable than a standard carbon pole and can be used both to gain access to first floor access points and also for continuous 'at height' movement when an extremely lightweight and quiet option is required. Tasks such as moving from balcony to balcony, diagonal platform transitions and multi-stage building climbs in urban environments become viable whilst carrying a minimal package. The ladder is also a game changer for small vessel boarding for specialist dive units, again due to the compact nature of the system.

Made with braided Kevlar para-aramid rope and carbon fibre rungs the DTL is extremely lightweight at just 1kg / 2.2lbs for the 3.0m/10ft system and 1.34kg / 3lbs for the 4.9m/16ft system.

The system is comprised of:

- 6mm 12-strand braided Kevlar rope with a tensile strength of 9500lbs/4000kg. It is fire retardant, UV resistant and abrasion resistant.
- 4-Wrap carbon fibre steps
- Helix Urban Hook
- DMM Ghost / DMM Ultra O Carabiner



The steps/rungs are made to easily fit within the next step/rung which creates a stiff pole technique with a single hook on the end to deploy up to 16ft with one ladder.

Once the hook is secure, a gentle tug releases the steps/rungs to create the ladder itself. The DTL is easy to deploy and climb.

The DTL's overall tensile strength exceeds 5000lbs/2200kg allowing the end user to customize the ladder system to best fit the scenario and objective.



Delta Tactical Ladder



- 1 6mm 12-strand braided Kevlar rope
- 2 4-Wrap carbon fibre steps
- 3 Helix Urban Hook
- 4 DMM Ghost / Ultra O Carabiner

Ladder Specifications

Ladder Size	10ft / 3.05m	16ft / 4.88m
Pole Length	7ft / 2.13m	11ft 2in / 3.41m
Rungs	8	13
Weight Ladder	2.2lbs / 1kg	3lbs / 1.36kg
Weight of Ladder with Ghost Carabiner and Helix Urban Hook	2.88lbs / 1.31kg	3.54lbs / 1.61kg
Weight of Ladder with Ultra O Carabiner and Helix Urban Hook	2.86lbs / 1.3kg	3.65lbs / 1.66kg

Working Load Limits

Kevlar Rope (6mm)	9500lbs / 4309kg
Carbon Fibre Pole	26437lbs / 11,992kg per 44g at bending point

Customizable options include but are not limited to custom hook, carabiner, grip tape, illuminous tape and/or glint tape.

To enable the DTL system to be used in other situations there are other variations/addons available such as a Floatation option for waterborne operations and Glint tape which can be added to the rope in order to provide more visibility for conducting rescue operations.

Delta Tactical Ladder



Once the hook is inserted into the small end of the first pole then proceed putting the small end into the large hole until you have achieved your desired height.

Each DTL is designed to attach to the bottom of another DTL giving end users an extended reach - the ladder system is recommended for free hanging climbs up to 8.5m/28ft in a free suspension situation.



After use, the DTL should be rolled up from the bottom (the end that has the short loops).



First stow the bottom ladder loops by crossing them to the center. Keeping the ropes to the center, roll the ladder rung to the next ladder rung.



Repeat the process until the DTL is in a nice neat tight package.



Holding the hook in one hand let the DTL unroll to the ground. There will be a step/rung/pole closest to the hook attachment pole, insert the small rod into the top small end of the pole.

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 dismantled 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.

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.

PROTECTION

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.



Masters of Gloves originated in 2017 from the awareness that for many professional users, they face serious threats on a daily basis. With feedback from end users, they have launched the combat gloves for NATO as well as other specialised tactical gloves.



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 Canada 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.

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.



Woodlands House
Parc Britannia
Parc Menai
Bangor
Gwynedd
LL57 4FA

sales@helixoperations.com

© Copyright
2024
Helix Operations Limited
All rights reserved



[helixoperations](https://www.facebook.com/helixoperations)



[@helixoperations](https://www.instagram.com/helixoperations)



[helix-operations-limited](https://www.linkedin.com/company/helix-operations-limited)

