



# HELIX

Helix Personal Escape System (HPES)

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The Helix Personal Escape System is a modular, lightweight and low volume micro rope system that gives users the capability to quickly descend or egress from a position. The system can be used for both personal descent, and to lower a single operator or load. This system has been specifically designed for military, law enforcement and emergency personnel to perform an emergency escape across all environments and operational theatres. The system has been designed for fast deployment, be intuitive to use and have minimal training burden.

The system contains the necessary equipment to do the following:

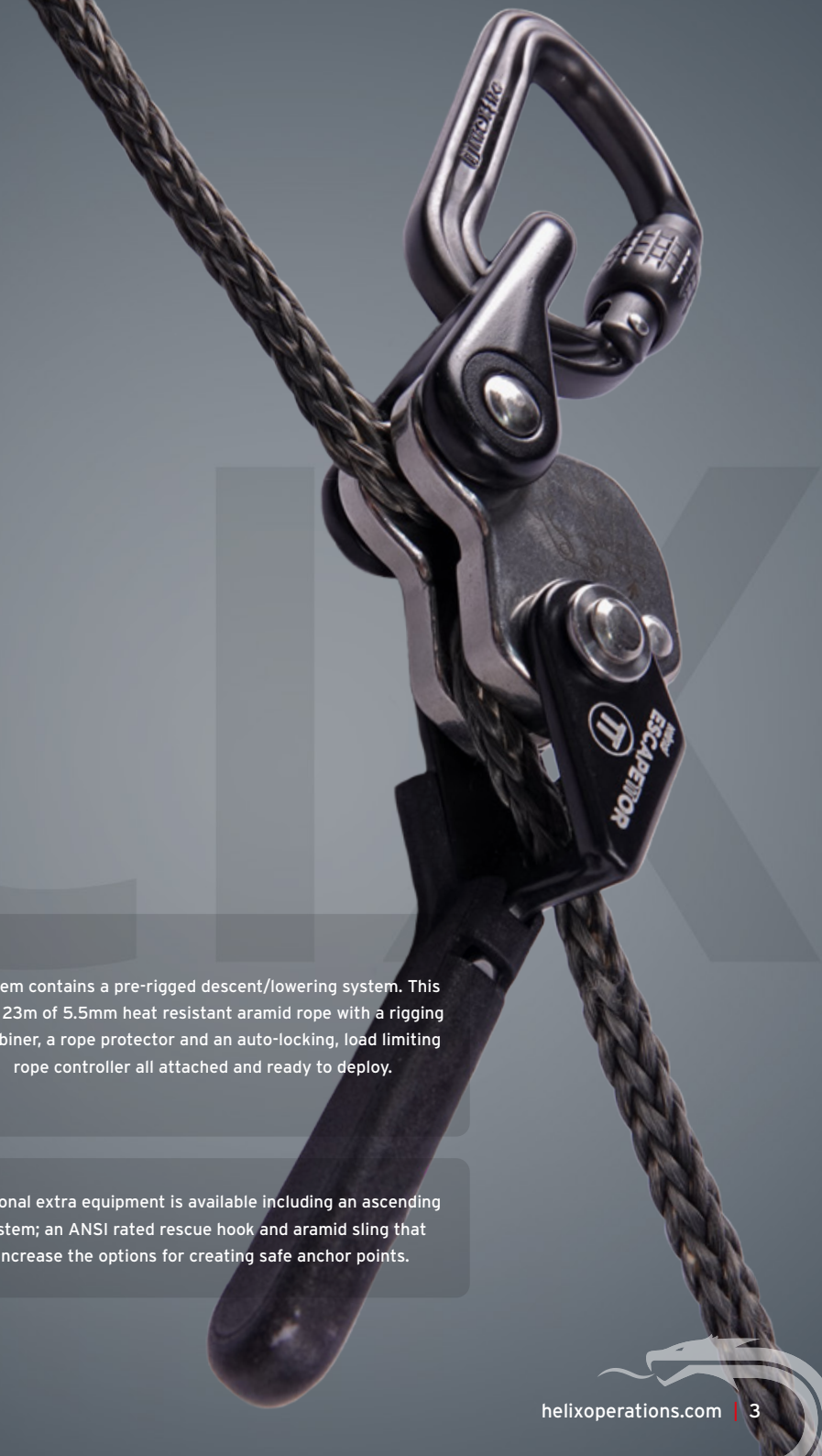
- Construct anchor points in a wide number of environments using a minimal amount of equipment.
- Protect the rope from damage.
- Descend or lower personnel up to 160m.
- Optional equipment is also available to allow the rope to be ascended.

The descender and rope have been certified to EN341:2011/2D European standard for descent systems and ANSI Z359.4-2013 American standard for fall protection and fall restraint and has also passed additional, harsher testing that simulated worse case scenarios with heavily laden operators.



System contains a pre-rigged descent/lowering system. This uses 23m of 5.5mm heat resistant aramid rope with a rigging carabiner, a rope protector and an auto-locking, load limiting rope controller all attached and ready to deploy.

Optional extra equipment is available including an ascending system; an ANSI rated rescue hook and aramid sling that increase the options for creating safe anchor points.



# Helix Personal Escape System (PES) Training Kit

Helix Operations is authorised to offer training on the HPES system. First students can train on Helix Egress System as an operator on a one day course. Following this, you may progress to the instructor course to train experienced individuals as identified by the parent organisation to deliver instruction in the use of the Helix Personal Egress system; to include Working at Height regulations in training, system components, tolerances and parameters, anchor selection/rigging, the systems use in descent and ascent. and its use in a buddy rescue.

## 10m Helix PES Training System:

- DMM Phantom Screwgate Red Back/ Matt Grey Thimble/ Gate
- XSRE Mini Carabiner Red
- PerfectO Locksafe Red Back/ Matt Grey Barrel/Gate
- Quickie Ascender
- Superfabric Rope Pro 50cm With Red Sewn Loop Tab
- 3mm Accessory Cord 50cm Black
- Petzl FOOTAPE-Adjustable webbing foot loop
- 10m PES With Red Handle + 1m Plastic Rope Protector



# Helix Personal Escape System (PES) Descent Components

In each of the HPES Kits these items are included.

- 1 The HPES is a micro egress system that is very intuitive, simple to use even in adverse conditions, fast to deploy, auto-locking and load limiting. It also has minimal training burden.
- 2 A 50cm long rope protector that uses multiple layers of SuperFabric and Cordura to create a tube that wraps around the rope via a velcro closure. The rope protector is tied to the rope by a thin length of cord that is tied in a French Prusik allowing the rope protector to be moved easily up and down the rope and then locked into place at the desired position. The French Prusik is tied back using the XSRE mini carabiner.



- 3 The Phantom is our lightest locking carabiner at just 42 grams. Despite its minimal weight, we have ensured that it is still usable in all situations - with gloves, in the wet and the cold. It is also strong across every axis (24kN major axis and 9kN minor axis) and has a clean nose that prevents snagging. The locker to carry when every gram counts. Very light, very strong and very useable.
- 4 Narrow Cutter Steel Safety Blade to remove protective vacuum pack.
- 5 XSRE carabiner for the prusik: This carabiner is manufactured in exactly the same way as the full strength DMM carabiners, each XSRE carabiner back is hot forged using aircraft grade aluminium, heat treated and built up with a machined gate.



# Helix Personal Escape System (PES) Ascent Components

Additional components which allow for ascent using the HPES.

- 6 The QA is a micro ascender that works well with the HPES rope and is unique in that it incorporates force reduction into the system through slippage at a specific force window.
  - 7 Weighing less than 227g, the Sterling Lightning Hooks are the lightest certified rescue anchor hooks available on the market. The hook is certified to NFPA 1983, 2012 edition Escape Anchor and rated to 13.5kN.
- The Lightning GT features an innovative wiregate for ease of connection to a remote anchor. This unique design eliminates the challenge of threading the rope through the hitching slot in a low-visibility situation and therefore providing the fastest, most secure remote anchor solution.
- 8 The adjustable Petzl Foot Tape for rope ascents. Can be used with the CTOMS Quickie Ascender or Petzl Ascension handled rope clamp. A height adjustable elastic keeps the foot in the loop, regardless of the shoe type. The Underfoot strap is abrasion-resistant and is slightly rigid to make it easier to step into. A double back buckle effectively adjusts the length of the foot loop. Supplied with a DMM Phantom Screwgate carabiner to attach it to the QA ascender.
  - 9 Sewn sling made of high-strength aramid delivering a significantly higher breaking strength than conventional slings. Sewn sling using an aramid core delivering significantly higher breaking strengths than conventional nylon or polyester slings together with better heat, abrasion and cut resistance.
  - 10 MultiCam Molle Pouch - 1 Bead Marker. The system can be supplied packed in several formats; these include vacuum packing and pre-packing into a custom Molle pouch. The pouch being available in Multicam or Black as required.



# Helix Personal Escape System Components

	10m Helix PES Training System:	23m Helix PES System - Ascent & Rigging:	23m Helix PES Descent System	23m HPES 2 Molle Pouch System Descent/Ascent & Rig:	50m Helix PES Descent System
DMM Phantom Screwgate Red Back/ Matt Grey Thimble/ Gate	•				
XSRE Mini Carabiner Red	•				
PerfectO Locksafe Red Back/ Matt Grey Barrel/ Gate	•				
Superfabric Rope Pro 50cm With Red Sewn Loop Tab	•				
10m PES With Red Handle + 1m Plastic Rope Protector	•				
Superfabric Rope Protector 50cm	•	•	•	•	•
Phantom Screwgate Matt Grey		•	•	•	•
XSRE Mini Carabiner Matt Grey		•	•	•	•
Quickie Ascender	•	•		•	
Petzl FOOTAPE-Adjustable webbing foot loop	•	•			
90cm Aramid Sling		•		•	
MultiCam Molle Pouch - 1 Bead Marker		•		•	
PerfectO Locksafe Matt Grey			•	•	•
MultiCam Molle Pouch - 3 Bead Marker			•	•	•
Narrow Cutter Steel Safety Blade (Helix)			•	•	•
23m Technora rope with descender.			•	•	
50m HPES WITH BLK Handle with Short Protection.					•





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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.



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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