



| HELIX

Stretchers





Helix Operations are part of the Excalibur group which includes DMM International and DMM Engineering. We specifically look after the Defence, Government and Rescue markets and specialise in height safety and technical rescue in mountain and urban environments. Helix Operations are based in the mountains of North Wales and have a heritage of over 40 years supplying tactical climbing solutions and specialist rescue capabilities to end users.

The capability offered by our close relationship with DMM has been extended by partnering with manufacturers such as Harken, Cascade, MedSled, Rock Exotica and Petzl to offer a complete solution for working at height and technical rescue in mountain and urban environment.

Company Number: 10316654  
DUNS: 221986629



## Mission Statement



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

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

- Advice
- Equipment
- Training
- Servicing



# Key Brands



DMM International 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.



Since 1962 Cascade Rescue have manufactured durable and reliable rescue gear. They have stayed committed to continuous product improvement and new initiatives, since its success of the "Cascade Toboggan" of the 60's they now produce Cascade Rescue Stretchers and Litters supplied to 23 countries. Cascade Rescue is a Harken Industrial brand, based in the USA.



Priding themselves in remaining a stable family business, encouraging innovation to imagine the best solutions and insisting on industrial excellence Petzl has an impressive history of producing new tools for working at height since 1970 and have gone onto create many iconic products that are still the benchmark for performance today.



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.



Boasting a vast portfolio of rope product they includes a well-respected range of safety and rescue ropes such as the KM III series. Constructed from a polyamide core and a polyester cover which reduces rope rotation, bouncing and stretch, it is highlighted in our range.



LIBERVIT have over 25 years in design and manufacture of hydraulic tools and manual equipment for the industry, the special forces and the rescuers.



Harken Industrial has more than 50 years of manufacturing experience, originally a sailing hardware manufacturer they soon branched out into working at height and rescue equipment. Harken are introducing innovative product to the market (Clutch - Ninja) with both increased performance and functionality. Manufacturing in both Italy and the USA.

Kask specialise in developing, designing and manufacture of safety helmets. Since 2004 Kask has strived to produce helmets which strike a balance between technological excellence, functionality, safety, and attractive design. All Kask helmets are made 100% made in Italy, passed through the most rigorous safety and quality tests of the KASK's distinctive CSD Project - ComfortSafetyDesign.

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

Med Sled products are manufactured and assembled in the USA. Built using the toughest plastic which is UV resistant, the stretchers they offer reduce heavy lifting by using the 'drag and roll' method. Their integrated harness system allows a very light weight stretcher to be utilised in horizontal and vertical hoisting operations.

TEXORA is a world-class designer and manufacturer of technical webbings, textile lifting slings and safety products including fall protection harnesses, safety belts, shock absorbers and lanyards. Fully certified to ISO 9001:2008 and Inspec UK approved.

Since 1993, LED Lenser have been specialists in producing excellent LED Torches. Making quality German engineered products, they set themselves the highest standards in terms of innovation in materials, technology, workmanship, design and sustainability.



# Comparing Stretcher Capabilities

													WHEEL SYSTEMS COMPATIBILITY				ACCESSORIES				LIFT CAPABILITIES	CERTIFICATION
Product Description	Material	Width at Chest	Width at Foot (tapered)	Length	Length Split	Depth	KG	Load Limit	Ferno Tirol Kit	Cascade Terra Tamer	Ferno Mule 2	Lifting Bridles	Flotation System	Carry System	Head Guard							
Cascade Professional Series Two Piece Tapered Titanium Stretcher	Titanium	64.8cm	28cm	211cm	109cm	16cm	8.1kg	1112kg		•	•	•	•	•	•	Vertical and horizontal with optional lifting bridles	Tested to Mil Spec and ASTM F2821-10					
FERNO'	Titan Tapered Basket Stretcher	Titanium	60cm	30cm	212cm	-	18cm	6.3kg	1136kg		•	•	•	•	•		Vertical and horizontal with optional lifting bridles	CE 93/42/EEC CLASS 1 (UK) for low risk medical devices				
	Titan Tapered Split Basket Stretcher	Titanium	60cm	30cm	212cm	116cm	19cm	7.5kg	1136kg		•	•	•	•	•							
	Titan Tirol Basket Stretcher	Titanium Alloy	60cm	30cm	212cm	116cm	21cm	21kg (with wheel and handle)	1136kg for lifting and 225kg for the Tirol Wheel system	•		•	•	•	•							
Universal Stretcher UT2000	Aluminium tubing covered by a shield of strong plastic	44cm		200cm	104cm	12cm	8.2kg	160kg	Comes with own wheel system / Compatible with Cascade Terra Tamer				•	•	•	•	Vertical and horizontal with optional lifting bridles	CE 93/42/EEC CLASS 1 (UK) for low risk medical devices				
MED SLED EVACUATION	Medsled 36 inch VLR Rescue Sled Stretcher System	High Density Polyethylene	50-75cm in use	212cm in use	-	Moulds to shape	7.3kg with horizontal and vertical lifting straps 4.2kg for just the stretcher and carry bag	820kg			•	•	•			Vertical and horizontal with included lifting bridles	CE 93/42/EEC for medical devices					
	Medsled 36 inch VLR Rescue Sled Stretcher System with integrated torso harness	High Density Polyethylene	50-75cm in use	212cm in use	-	Moulds to shape	7.7kg with horizontal and vertical lifting straps 4.6kg for just the stretcher and carry bag	820kg			•	•	•			Vertical and horizontal with included lifting bridles						

# Comparing Stretcher Capabilities



CONSTRUCTION		DIMENSIONS				WEIGHT		STRENGTH		WHEEL SYSTEMS COMPATIBILITY			ACCESSORIES			LIFT CAPABILITIES		CERTIFICATION
Product Description	Material	Width at Chest	Width at Foot (tapered)	Length	Length Split	Depth	KG	Load Limit	Ferno Tirol Kit	Cascade Terra Tamer	Ferno Mule 2	Lifting Bridles	Flotation System	Carry System	Head Guard			
<b>SAVIOUR</b> Medical Saviour Tactical Stretcher	Low-density polyethylene (LDPE)	60cm		200cm			5.5kg	200kg				•		•		Supported vertical hauling (in contact with a supportive surface not in free space) and horizontal with included lifting bridles.	conforms to CE 93/42/EEC CLASS 1 (UK) and is covered by European Council Regulation 2017/745 CLASS 1 DEVICE.	
	Low-density polyethylene (LDPE)	60cm		200cm			5.7kg	200kg				•		•		Vertical and horizontal with optional lifting bridles	conforms to CE 93/42/EEC CLASS 1 (UK) and is covered by European Council Regulation 2017/745 CLASS 1 DEVICE.	
<b>XTRACT<sup>™</sup>SR</b> Xtract <sup>™</sup> SR Tactical Stretcher	DURALITE®	103cm		269cm			1kg	300kg				•	•	•				
<b>HS Skopan</b>	Stainless Steel	43cm		124.5cm		24.5cm	7kg	22kN (Breakage Load)				•				Vertical and horizontal with optional lifting bridles	CE 9242	
<b>FERNO</b> Mantis Tri-Fold Backboard	Aluminium	41cm		182cm	63cm (folded)		5.5kg	229.7kg						•				
<b>Yates</b> Spec Pak	Integrated polyethylene board			83.8cm			6.8kg	175kg				•		•		The Spec Pak system is a lifting harness, thus eliminating the need for a separate victim harness. Patients can be lifted vertically while secured to a rigid backboard.	Meets ANSI/OSHA Class III harness standards	
<b>CTOMS</b> CTOMS pocket litter		54cm		196cm			0.25kg											

# Cascade Professional Series Two Piece Tapered Titanium Stretcher

The Cascade Rescue Professional Series Titanium Litter is state of the art in terms of the construction and materials used for basket stretchers and litters today.

Designed as a remote access rescue system that offers a comprehensive rescue capability, the litters are constructed of 19mm tubular titanium and with 10mm tubular titanium bracing tubes for maximum strength with minimal weight.

Each litter includes four Patented Articulating Lift Points for either horizontal or vertical lifts, four Quick Tab Patient Straps, integral Padded Patient Contour Support and a heavy duty high density polyethylene mesh liner.

Building on this class leading basket stretcher the system also has the Terra Tamer wheel system and Extension Handles. These fit not only onto the standard Cascade range of basket stretchers, but also can be supplied ready to be attached onto other basket stretchers.

The system is rapidly gaining in popularity. The split stretcher features trademark Cascade Rescue FastLock System for rapid 10 second takedown/reassembly.

The bespoke wheel system, handle system, flotation system and various lifting bridles are available to increase versatility.



Four QuickTAB Patient Restraint Straps

Lightweight - probably the lightest wheeled stretcher when combined with the Terra Tamer wheel set.

Integral Padded Patient Contour Support

Optional Litter skin allows the base to be protected on drags across rough ground



Description	Construction	Width at chest	Width at Foot (tapered)	Length	Length Split	Depth	Weight	Load Rating
Cascade Professional Series Two Piece Tapered Titanium Stretcher	Titanium	64.8cm	28cm	211cm	109cm	16cm	8.61kg	11.12kN

# Cascade Terra Tamer

At last a universal wheel system that can be mounted quickly and securely onto most basket stretchers. The Cascade Terra Tamer is a litter trail wheel designed to transport the patient over harsh and demanding environments thanks to its 4.25" maxis tyres. It can withstand nearly all conditions and terrain such as mud, snow and sand and big obstacles.

As well as being extremely tough it is very light, weighing just 15.4 lbs./7kg. It can be easily broken down for convenient load sharing and transport.

The framework and fork system are constructed of Pure Titanium, making the Terra Tamer the lightest all-purpose patient transport on the market. It also features disc brakes, which is an additional safety feature for when back roping is not possible.

The attachment system works by simply slipping the custom designed hooks over the top railing of the litter and using the new compact stainless-steel ratchets to cinch it down.

The Terra Tamer can be mounted on most standard rescue litters.



# The Cascade Equalizer Adjustable Litter Handle System

The Cascade Equalizer Adjustable Litter Handle System easily and quickly attaches to both the Cascade basket stretchers and also to other brands of basket stretcher through the use of bespoke adapters.

Years of R&D by Cascade Rescue has been put into designing this system which is lightweight and features a unique 24 position system allowing the operators to quickly change handle positions based upon operator height or varying terrain conditions.

For transport to the scene, or for high or low incline work, the handles of the Equalizer may be positioned so they "nest" against the side of the litter (31" wide when stowed) or removed entirely and stowed in a pack.

The handles can be bespoke made to retrofit any stretcher you may already own.



The only stretcher system  
with a disc brake system



# Cascade Accessories

## Cascade Guardian Litter Shield

The Cascade Guardian Litter Shield deflects debris and rocks no matter the angle at which it strikes, giving a good level of protection for the patient.

It is made from precision moulded, tinted polycarbonate plastic giving a toughness and the Top Rail Capture devices hold the shield in place meaning the shield will withstand harsh environments.

The shield will fasten securely to the top of the litter railing with the use of the flexible ratcheting mechanisms. It will also fit to just about any litter of the same width.



## Cascade flotation system

A flotation system suitable for ocean, lake and swift-water rescue, designed to fit the Cascade Professional and Advanced series litters with a Daisy Chain and most other tube frame litters from other manufacturers. It is easily attached and removed.

The system maintains the litter position of a head-high horizontal position for ease of loading and is capable of floating the litter, patient and at least one rescuer.

**Buoyancy:** The system is designed to float a litter and patient in a slightly "head up" orientation. It will also partially float an attendant positioned to the side or end of the litter. Depending upon the distribution of the weight it will adequately float up to 400lbs (180kg).

**Construction:** The external cover of the system is 600 denier waterproof nylon pack cloth. Internal foam is 1.2 pound density closed cell polyethylene foam. It will not absorb water. The strap segments are 1" heavy duty polypropylene webbing with Velcro.



# Cascade Accessories

## Cascade Pro Litter Skin

The Cascade Pro Litter Skin for tapered litters offers a solution for when a rescue scenario demands that the litter be dragged across rough terrain.

It is ready to deploy quickly and easily by simply attaching the Pro Litter Skin to the litter. A new attachment system means that installation requires no zip ties. Simply attach and go.

Constructed from a proprietary blend of super durable Hi-Density Poly with easy on/off attachment points. When fully deployed, it fits the width and length of a Cascade Rescue Professional Series tapered or rectangular litter up to the top of the secondary rail.



## Tamer Transport Pack

The Tamer Transport Pack is designed to protect the Cascade Rescue Terra Tamer and accessories, and make it easy for rescuers to transport gear.

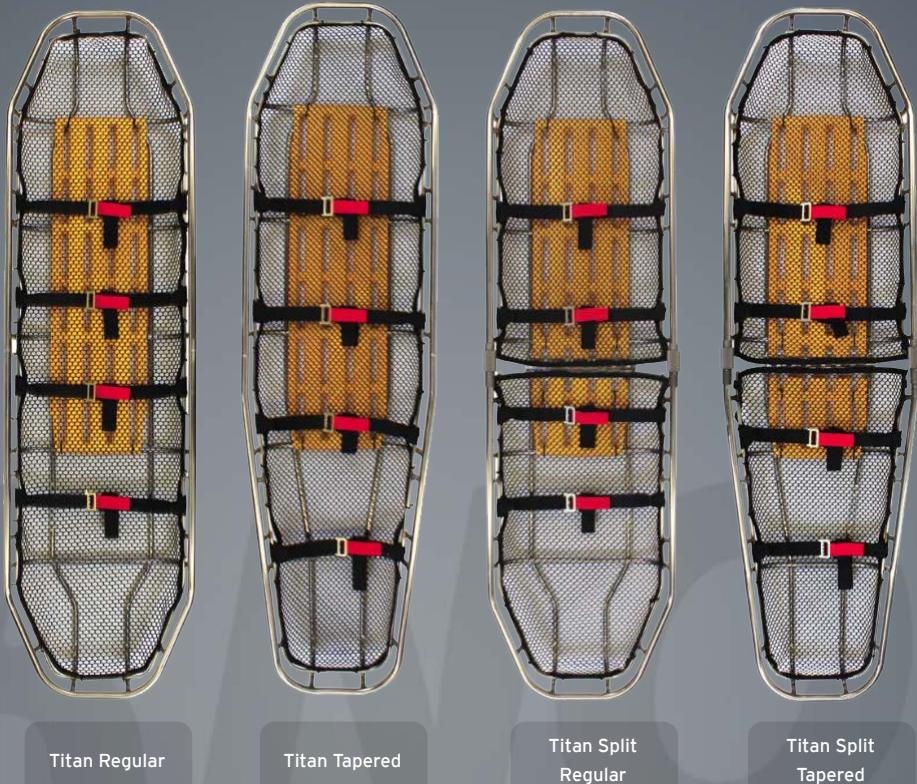
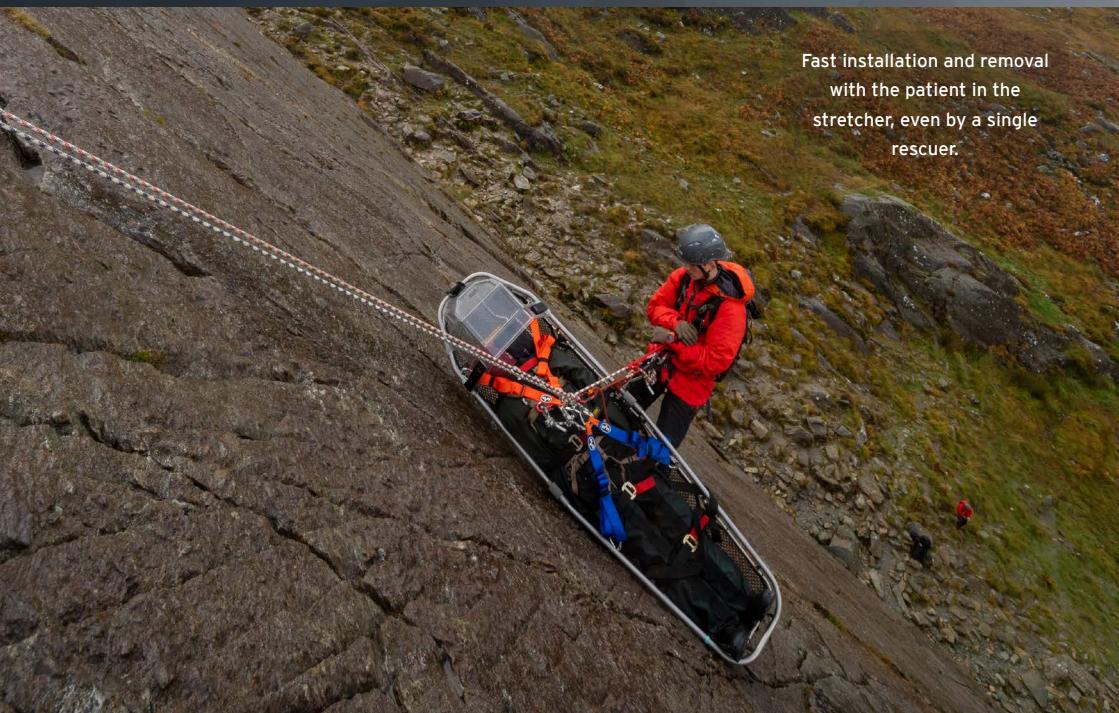
Two main internal compartments stow and protect the Terra Tamer Litter Wheel. Extra tools, parts, and gear can be organized in two smaller internal compartments.

It is also designed to carry a two piece-litter and two integrated side pockets will hold four Equalizer Adjustable Handles.



# Ferno Titan Basket Stretchers

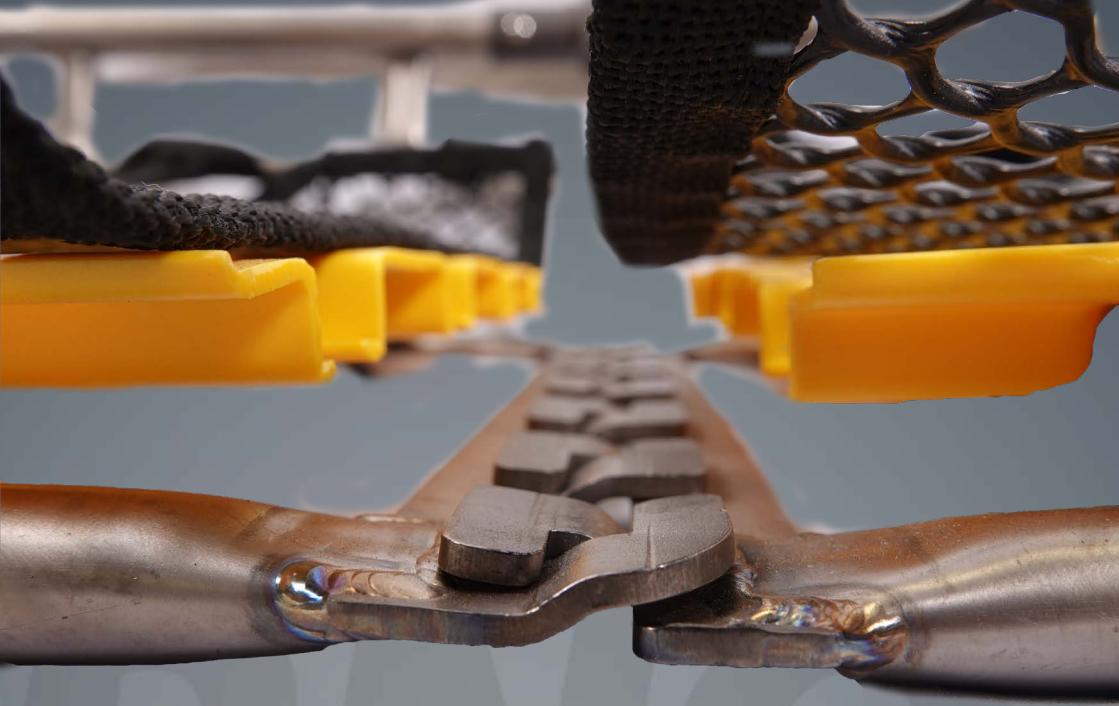
The Ferno Titan Series is specifically designed to perform in a technical rescue environment. The materials allow it to survive in almost all conditions, whilst the design itself allows for a user-friendly platform from which to work. Unique features include a 25.4mm top tube to make it easy to hold onto compared to smaller-tube frames. It also comes with four patented StratLoad attachment points that make it quick, easy and safer to clip your Litter Bridle into. These attachment points protect the carabiner from wall and rock faces. The High Density Polyethylene netting allows water and air to easily pass through the patient compartment, yet the small holes keep from snagging debris as easily. This netting material also will not rust.



Description	Construction	Width at Chest	Width at Foot (tapered)	Length	Length Split	Depth	Depth Split	Weight	Load Limit
Titan Tapered Basket Stretcher	Titanium	60cm	30cm	212cm	-	18cm	-	6.3kg	1136kg
Titan Tapered Split Basket Stretcher	Titanium	60cm	30cm	212cm	116cm	19cm	25cm	7.5kg	1136kg
Titan Regular Basket Stretcher	Titanium	60cm	-	212cm	-	18cm	-	6.3kg	1136kg
Titan Regular Split Basket Stretcher	Titanium	60cm	-	212cm	116cm	19cm	25cm	7.5kg	1136kg

# Ferno Titan Split Basket Stretchers

The split apart stretcher option allows for a completely solid connection between the two parts of the stretcher, without the use of pins or tubes sliding into each other. A quick and easy visual check can be carried out to ensure connections are secure throughout an operation. This connection system allows for the stretcher to be assembled or un-assembled in about 15 seconds. Every Split Apart basket includes Collet Protectors which are meant to be used on each end when the stretcher isn't in use to protect threads from denting.



Ferno Titan Split Stretcher Transport Bag

The Traverse Basket Backpack is designed to house a split Titan basket and has plenty of volume for carrying other rescue essential gear.

The backpack includes contoured backpack-style, padded shoulder straps, a variety of handles for handling an outer pocket for gear separation and a large three sided zip for uninterrupted access to the stretcher and contents.

# Ferno Accessories

## Ferno Head Guard (CMC Litter Shield Plus) Bag

Designed to protect patients from further trauma during litter evacuations and carry-outs.

The shield not only provides protection from falling rocks and debris, but also protects against inclement weather and vegetation without compromising access to, and visibility of the patient's head. It also provides more room for a patient on a backboard or litter insert, and helps to reduce the "closed-in" feeling experienced by some patients. The reduced need for other head and face protective equipment also increased patient comfort.

The mounting bracket eliminates the need for a railing clamp on the litter and allows the shield to fit most litters.

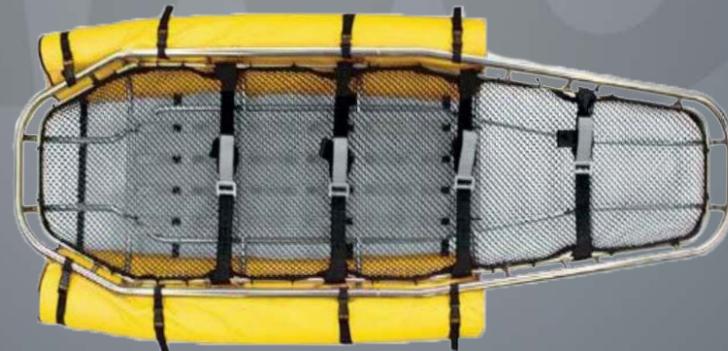


## Ferno Titan Split Stretcher Floatation Collar

The Ferno Titan Split Stretcher Floatation Collar ensures that the patients head and airway is protected during aquatic rescue operations.

The lightweight collar is a flexible, two-piece design which allows for quick and easy installation on a wide variety of basket stretchers.

- Designed for use with Traverse Titan Series, Traverse Advantage and Spartan, Gazelle and FERNO Model 71
- Double floatation tubes provide 45 pounds of buoyancy
- Can be stored inside basket and is easy to deploy with a built in 5 strap/clip system



# Ferno Tirol Kit

The Tirol Kit from Ferno is a lightweight and versatile patient transportation system ideal for long haul retrieval and technical rescue with ergonomic operation on even the most difficult terrain. The Ferno Tirol Kit comprises of a wheel system and dual handle system that attaches to a custom Ferno Titan stretcher. At 10.8kg, the Tirol Kit can be backpacked or divided amongst rescuers and quickly set up and used by a single rescuer.

The Tirol Kit is designed to fit a purpose-built Titan Titanium split basket stretcher which has additional head and foot plates incorporated to allow the attachment of the wheel and handles. The combination of these two lightweight products makes it possible to operate the stretcher in the most hostile and inaccessible areas.

The Ferno Tirol kit will not retro-fit onto standard Ferno Titan baskets.



Description	Weight	Code
Tirol Kit	10.8kg	LY11-0119TIROL-KIT
Light mule	4.7kg	-
Handles	5.6kg	-
SS Shoulder Harness x2	0.5kg	-

Fast installation and removal with the patient in the stretcher, even by a single rescuer.

12 position, adjustable carry handles to match the rescue team or terrain requirements.

Carry handles can become legs to provide an elevated, stationary position to treat the patient.

# Ferno Tirol Kit Included Components



Light Mule

Single-wheel system composed of folding 'V' shaped wheel support and fast-clip locking, with a high load capacity wheel designed for mountain terrain.



Shoulder Supports. Easy to fit, adjustable and equipped with a high visibility system to allow more efficient distribution of the weight to be transported.



Wheel locking system



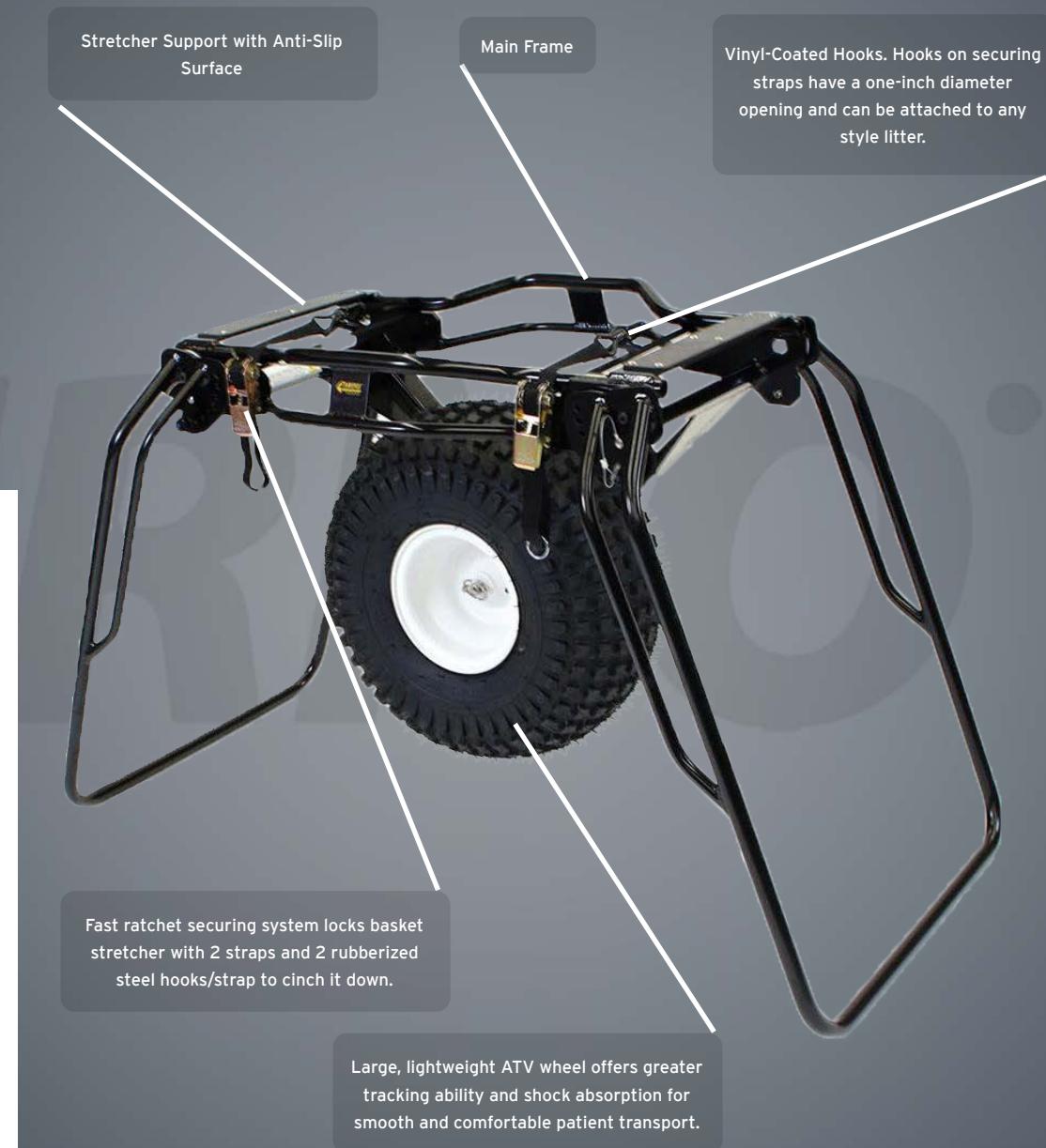
Titan Protection. special protective coating of the Titan-T basket stretcher to allow it to be dragged safely over all terrain types.



# Ferno Mule 2 Transport System

The Mule 2 Transport System from Ferno with an all terrain wheel, fast, simple securing system and eight position handles offers an all purpose transport solution for military and tactical operations. Greater leverage and easier carrying reduces fatigue and the chance of injury.

- Universal design, compatible with any type and style of rigid litter.
- Eight position adjustable handles.
- Single-wheel design is ideal for narrow trails, allows for agility, versatility and ease of movement in the roughest terrain including bogs, ruts, roots, rocks and snow.



# Kohlbrat & Bunz Universal Stretcher UT2000

The UT2000 from Kohlbrat & Bunz is a modular system 'Alpine Rescue' style stretcher designed for technical rope rescues and helicopter evacuations. It can be used for rescues in all types of environments including mountain, cave, canyon and sea.

It can be used to transport rescue and medical equipment through pathless, difficult terrain to the scene of the accident and then couples together to make a very capable rescue stretcher. The stretcher can be pulled on the ground in all directions and then lifted by a helicopter.

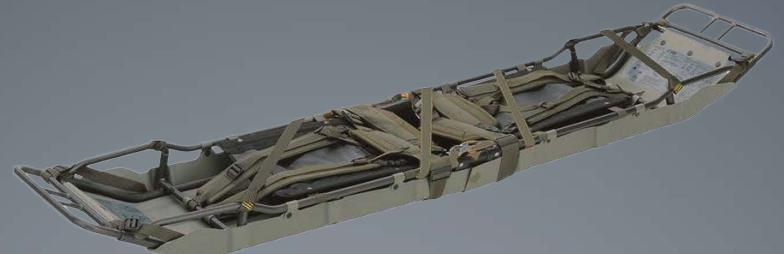
The stretcher is constructed from a welded tubular frame made from high quality aluminium tubing which is covered by a shield of strong plastic that protects the carrier of the stretcher whilst allowing it to be dragged more easily.

The core stretcher system comprises of 2 symmetrical halves that lock together; each of the half stretchers comes with its own carrying harness that has wide, padded shoulder belts with a chest fixation provides optimum load distribution and high carrying comfort during transportation over tough terrain.

It comes in either subdued or civilian colour ways.

Flight approvals: Austria: AUT-Austro Control, FS 3/88, issue 2 -ZI.6421-1/15-95

Germany: D-Luftfahrtverträglichkeitsprüfung Reg.6545-2005-01



Core stretcher system comprising of two half sections that connect together. Each section has its own carrying harness included as standard.



Core stretcher with the double wheel system attached together with two sets of extension handles

Description	Construction	Width	Length (with frame coupled as a stretcher)	Depth	Weight (as a stretcher)	Load Capacity
Universal Stretcher UT2000	Aluminium tubing covered by a shield of strong plastic	44cm	200 cm	12cm	8kg	160 kg

# Kohlbrat & Bunz Universal Stretcher UT2000

Comprised of two UT200 sections which can be used in conjunction with wheel systems, extension handles, the Ackja sled system, lifting bridles and flotation modules to offer a comprehensive rescue capability across multiple environments. Carrying belts can be detached for helicopter transport and four multi-functional load-bearing belts securely fixate the injured or load during steep face and helicopter rescue.



One wheel system Alpine  
Weight: 5kg  
Wheel dimension : 40 x 9cm



Two wheel system with optional head guard  
Weight : 9.8kg



Wheel System with one wheel and extension handles with fixed or adjustable angle.  
Weight : 5.5kg  
Wheel Dimension : 50 x 5cm



Lifting bridle system



Ackja system



# 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.



Deploys quickly and has minimal training burden.

Lifting straps are built into the body of the stretcher.

Suitable for remote and confined space environments.

A compact, lightweight and comprehensive rescue stretcher.



# Med Sled® VLR

The stretchers are constructed from High Density Polyethylene (HDPE) which provides rigidity for patient stability and lifting. This is particularly useful when carrying out horizontal and high angle lifts. The stretcher bodies are very resistant to tearing, cutting and punctures.

The VLR stretcher has lifting straps built into the body that allow vertical or horizontal lifting to be carried out immediately after the patient is strapped in. A crucial advantage of the MED Sled is that the lifting system does not rely on the integrity of the HDPE body for safety because the straps run completely around, over and under the stretcher body to create a fully inter-connected webbing harness constructed out of mil-spec webbing that locks together with 18kN Cobra buckles. The lifting slings are rated to 4000kg.

There are two sizes available - 36 inch and 28 inch. The 28 inch VLR offers the same attributes as the 36 but on a smaller 28 inch platform. It is easier to carry, lighter but there is less side protection.

Accessories include:

- Tag Line Kit with V-Strap
- Weak Links Pack of 10
- Flotation System\*
- Flotation Actuator Indicator Pins



Description	Construction	Width	Length	Depth	Weight (with hoist)	Sling Rating
Tactical Rescue Sled and Bag	High Density Polyethylene	91cm	254cm	-	7.7kg	4000kg

# Med Sled® VLR Patient Restraint Harness System

The Med Sled VLR stretchers are also available with an additional torso harness built into the structure of the stretcher - the MedSled VLR Patient Restraint System.

It provides extra stability to the casualty during vertical lifts and in high winds. It also allows casualties with severe lower limb trauma to be secured with placing pressure on the injury..

The harness is built into the body of the stretcher and can be deployed immediately by pulling back the cover and releasing the straps using the fast release Cobra buckles - these are then pulled up around the crutch before being re-attached at shoulder level.

This gives class leading stability that can be used very quickly.



# Saviour Tactical Stretcher

An all-purpose stretcher for use in confined space/restricted access rescue and hazardous environments providing carry, supported vertical haul and drag functions.

Weighing just under 5kg, the Saviour Tactical Stretcher comes supplied in either a roll top shoulder bag, or a rucksack style bag with colour coded straps for intuitive use without prior training. Once out of the bag the Saviour's LDPE skin lays flat following a simple reverse bend at each end which facilitates easy patient loading unhindered by curled stretcher ends. 6 reinforced hand holds assist easier extended carries by 2 or 4 people and the LDPE skin can withstand heavy drags on all surfaces.

The stretcher wraps around the patient, and in doing so offers a level of splinting. The stretcher end is left open to allow for the use of a femoral traction splint. There is a unique head-hugger system that wraps around the head to protect it during evacuation and is designed to interlock with a cervical collar if one is used. Head-huggers can have optional earholes if required.

All materials are resistant to harsh environments and designed to survive heat, cold, salt, damp and sand and the entire stretcher is neutrally buoyant so will float if dropped into water. The stretcher is designed to be easily cleaned and infection control compliant. If however areas are damaged or soiled beyond repair, the stretcher has a comprehensive list of end-user replaceable spare parts allowing for cost effective multi-patient use.



# Saviour Tactical Stretcher

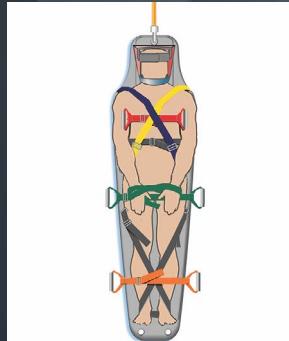
The Saviour is fitted with one 200kg rated eye at the head end making it possible to conduct supported vertical hauling out of confined spaces or on ladders/ stairs or up embankments etc. (\*Supported vertical hauling is defined as the stretcher is in contact with a supportive surface not in free space). The figure of eight at the feet and the cross straps at the chest, secure the patient when transporting.

Designed to fit inside all standard basket stretchers and airframe stretchers which allows the patient to stay in the Saviour throughout the journey to hospital. Once at the hospital, the Saviour is x-ray translucent and CT friendly meaning that the patient can go from point of injury to CT scanner on a single device.

Uniquely for this type of device, the Saviour Tactical can integrate with the LUCAS Mechanical Chest Compressor to allow for casualties receiving that intervention to be removed on a stretcher from technically difficult locations, or even simply down a set of domestic stairs.

In addition to the Saviour Tactical, which is supplied in a bag with the head hugger, there are 2 further optional accessories:

- A pair of 1.5m short moving straps to aid extrications or moving in confined spaces
- 6m looped drag harness to facilitate load rated ground dragging.



Drag



Vertical Haul



Float



# Saviour Technical Stretcher

An all-purpose stretcher for use in confined space/restricted access rescue and hazardous environments providing both vertical and horizontal lift functions.

Weighing just under 5kg, the Saviour Technical Stretcher comes supplied in either a roll top shoulder bag, or a rucksack style bag with colour coded straps for intuitive use without prior training. Once out of the bag the Saviour's LDPE skin lays flat following a simple reverse bend at each end which facilitates easy patient loading unhindered by curled stretcher ends. 6 reinforced hand holds assist easier extended carries by 2 or 4 people and the LDPE skin can withstand heavy drags on all surfaces.

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# Saviour Technical Stretcher

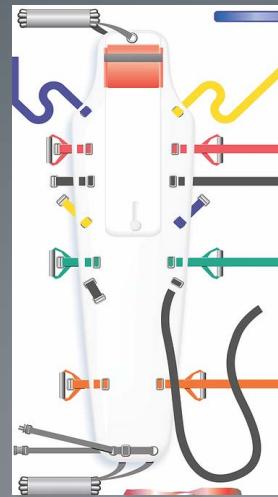
The Saviour is fitted with 2 x 200kg rated eyes at the head end making it possible to conduct casualty evacuation for vertical hauling out of confined spaces or through doorways. There are an additional four 200kg rated eyes that facilitate horizontal rescue. The integrated groin harness, figure of eight at the feet and the cross straps at the chest, secure the patient when lifting vertically or horizontally.

Designed to fit inside all standard basket stretchers and airframe stretchers allows the patient to stay in the Saviour throughout the journey to hospital. Once at the hospital, the Saviour is x-ray translucent and CT friendly meaning that the patient can go from point of injury to CT scanner on a single device.

Uniquely for this type of device, the Saviour Technical can integrate with the LUCAS Mechanical Chest Compressor to allow for casualties receiving that intervention to be removed on a stretcher from technically difficult locations, or even simply down a set of domestic stairs.

In addition to the Saviour Technical, which is supplied in a bag with the head hugger, there are 3 further optional accessories;

- Saviour Technical Adjustable Lifting Bridle - to facilitate the fully rated and CE approved horizontal and vertical lifting capability
- A pair of 1.5m short moving straps to aid extrications or moving in confined spaces
- 6m looped drag harness to facilitate load rated ground dragging



LDPE skin lays flat following a simple reverse bend at each end

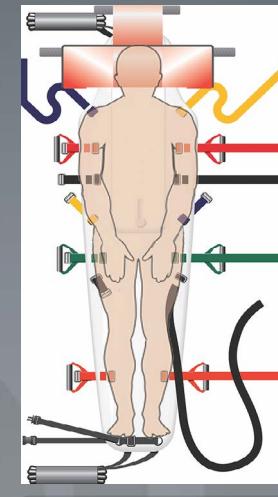
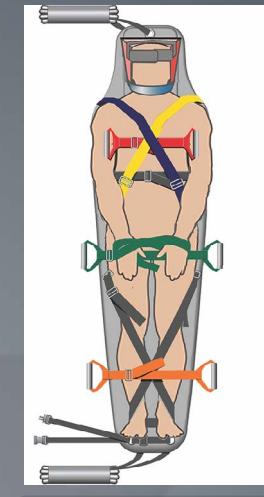
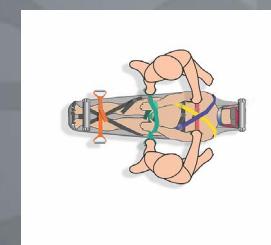


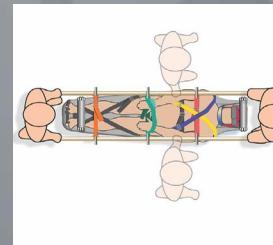
Figure of eight at the feet and the cross straps at the chest secure the patient when lifting vertically



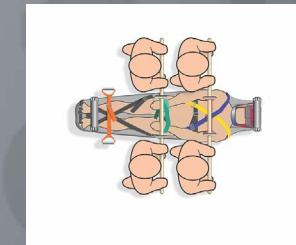
Unique head-hugger system that wraps around the head to protect it during evacuation



6 reinforced hand holds to allow for easy extended duration carries, and is easily carried by 2 or 4 people



Pole carries can be from each end, or across for bariatric patients.



# Xtract™SR Tactical Stretcher (Basic System)

The Xtract™SR Stretcher is a modular system that can be built up from a simple fabric stretcher to a complete casualty management and transport system.

The design of the stretcher, which cocoons casualties and minimises movement was originally created to avoid secondary injuries during transportation of the patient.

The core fabric stretcher weighs just 1kg, but it should not be confused with basic "sheet" stretchers - the XTract SR has multiple features to help stabilise a casualty during transport; graphics help ensure the patient is positioned correctly, a drawcord system allows the casualty to be enveloped securely in a cocoon like structure whilst also allowing the stretcher to be shortened to cope with smaller casualties or those with limb loss. An elastic bungee system helps keep the stretcher wrapped securely whilst helping ensure breathing is not restricted.

A casualty can be loaded be loaded in as little as 30 seconds on a system which has a 300kg maximum load capability. The Duralite fabric gives the stretcher is light weight whilst remaining immensely strong and durable.

The stretcher can be carried via the multiple carry straps on each side or via the adjustable Xtract SR Xstraps that can be attached to either side and allow the stretcher to be carried on the shoulders allowing hands to be kept free for using equipment.



Xtract SR stretcher and the optional Xtract SR plastic base/drag sheet plus its Molle carry bag

NSN Code: Xtract™SR Stretcher - 6530-99-315-5529



# Xtract™SR Tactical Stretcher (Basic System)

The fabric stretcher can be dragged if required and the Duralite fabric was chosen not only because of its high strength to weight ratio, but also for its abrasion and tear resistance. Dragging on hard or abrasive surfaces will cause damage though and if extended drags are part of TTPs then a custom base sheet can be used.

The base sheet is shaped to mirror the fabric stretcher and can be carried separately and quickly attached when needed via zip ties or left attached. The base sheet has a dual function - stretcher protection and casualty insulation. The PE base sheet has layers of foam on the upper side that lies under the casualty; this provides both insulation and pressure relief. There is harder foam under the feet to minimise pressure on the main drag wear points.

The drag sheet comes in its own transport bag that has multiple molle straps to allow it to be attached to rucksacks.

Description	Dimensions Deployed	Dimensions Packed	Weight
Xtract™SR Stretcher - The smallest and lightest solution, ideal for foot patrol operations and buddy rescue.	2690 x 1030mm	280 x 180 x 120mm	3.2kg
Xtract™SR Module - Includes the Xtract™SR Stretcher, Xtract™SR Base and Xtract™SR XStraps, and is ideal when drag evacuations or prolonged care scenarios are anticipated.	-	540 x 210 x 210mm	
Xtract™SR Complete - This system provides all the functionality of the Xtract™SR Module and includes the highly versatile Xtract™SR Backpack.	-	230 x 110 x 180mm	
Xtract™SR Backpack	600 x 260mm		



# Xtract™SR Tactical Stretcher Heatsaver and Xtract™SR Deployer System

There are addition optional components that allow the Xtract SR to protect and stabilise a casualty in adverse conditions.

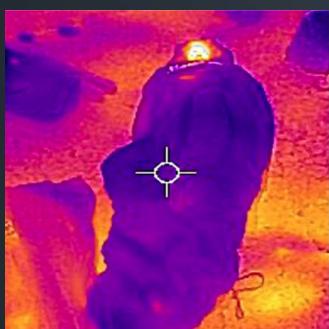
These are the Xtract SR Heatsaver system and the Xtract SR Flotation system.

The Xtract SR Heatsaver is a compete insulation system that has been shown in independent tests to be a class leading solution for preventing hypothermia.

The Xtract™SR Heatsaver is a major advancement in preventing hypothermia and improving overall patient care in complex environments. This unique product tackles all the causes of heat loss in the seriously injured casualty within an acceptable size and weight bracket.

The system comprises of 3 elements:

- Xtract™SR Insulate : An air mattress that fits under the casualty.
- Xtract™SR Heatseal : A shaped insulated blanket that wraps over the top of the casualty and around the head.
- Xtract SR EPS: A weatherproof cover that encases the casualty.



Xtract™SR Deployer



Xtract™SR Insulate



Xtract™SR Heatseal



Xtract™SR EPS

"In both military and civilian trauma, it has been reported that 100% mortality occurred when core temperature is less than 32°C".

B.L Bennett, G Giesbrecht K Zafren et al. Management of Hypothermia in Tactical Combat Casualty Care. Journal of Special Operations Medicine, September 2020, Volume 20, Edition 3. 21- 2.

# Xtract™SR Tactical Stretcher Afloat Flotation System

Intuitive design facilitates competent use.

Whether crossing a jungle river, evacuating a flooded house, crossing a canal in Iraq or negotiating melted water in the Arctic, water obstacles often pose a significant risk to the safety of both casualties and rescuers. Xtract™SR Afloat gives rescue teams a small, lightweight, viable solution for crossing water obstacles.

- The Xtract™SR Afloat is a compact casualty flotation product for rescuers who must cross a water obstacle in challenging environments. Xtract™SR Afloat can also be used as an insulating mattress to combat hypothermia and improve patient comfort.
- The three buoyancy chambers can be inflated in any order.
- Unscrew the top of one the inflation valves.
- Inflate the associated buoyancy chamber by blowing into the one-way valve until the buoyancy chamber is fully inflated.
- Refit the top of the inflation valve. Ensure the top of the inflation valve is screwed fully home.
- Repeat the previous three steps for the remaining two inflation valves.



Note: Check that there are no leaks from any of the three buoyancy chambers. The casualty MUST be in an Xtract™SR Stretcher in order to use the Xtract™SR Afloat. There must be at least one person at the head of the Xtract™SR Afloat at all times when a patient is placed in the device whether on dry ground or in the water.

Xtract™SR Afloat can also be used as an insulating mattress to combat hypothermia and improve patient comfort.



# HS Skopan

The HS Skopan, constructed of Stainless Steel is the perfect solution for rescuing casualties in confined spaces such as ships or wind turbines.

A rescuer can drag the injured person. The stretcher can be lifted in a sitting or lying position.

The surface bucket is used for horizontal or vertical lifting, and the adjustable head fixings allow space for equipment such as oxygen masks. There are fixing straps for the forehead/neck, legs and chest to secure the patient as well as shin protection which enables the patient to be moved up or down stairs.

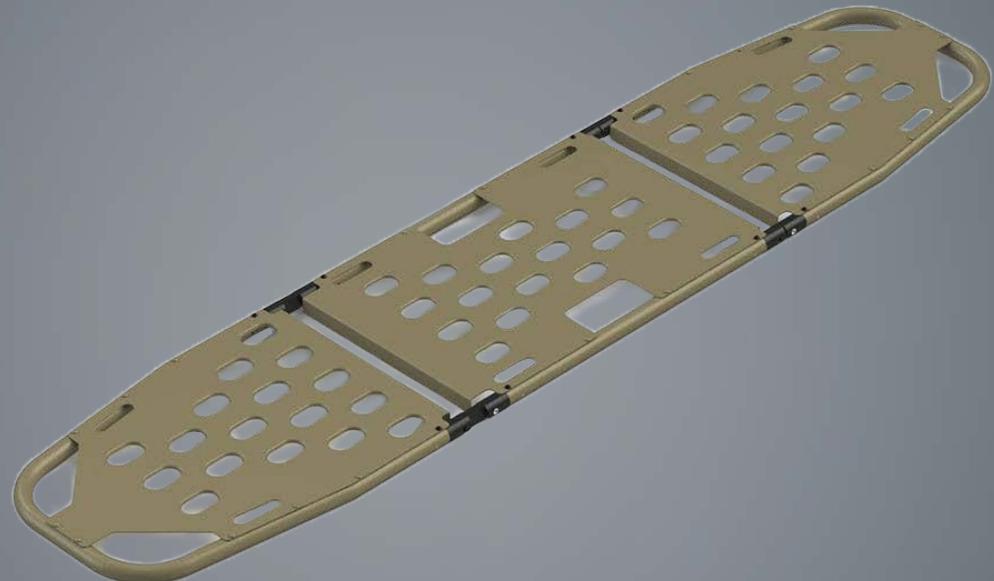
There is also an optional leg protection module that wraps the hanging, exposed parts of the legs in a plastic protector that helps avoid bumps or cuts during transport.



# Mantis Tri-Fold Backboard

The ultimate in simplicity and durability, the Ferno Mantis Tri-Fold Backboard is ideal for vehicle extraction because of its compact size and rapid deployment. Made from lightweight aluminium, there is no risk of fire hazards, cracking, warping or gauging which is common with other plastic and composite boards used in tactical and military vehicle operations.

The Mantis Tri-Fold Backboard also features generous hand holds, compact storage functionality, a blue powder coated frame and patient surface and is compatible with all common strap systems.



# Yates Spec Pak

SPEC PAK from Yates is a unique patient packaging and extrication system combines the backboard immobilization of a "Short Board" along with the suspension and support of a full body harness.

The Yates Spec Pack is a stretcher system suitable for vertical and confined space rescue. The system utilizes an integrated polyethylene board along the back to reduce wear and create a smooth sliding surface for confined space operations. Grab handles located at the head and sides allow rescuers to better handle the patient package during movement through tight spaces.

In addition, the Spec Pak system is a lifting harness which eliminates the need for a separate victim harness. Unique self adjusting (sliding) cervical restraint eliminates the problems associated with lifting patients vertically while secured to a rigid backboard. Storage bag provided is equipped with shoulder and waist straps. Spec Pak is only intended as a limited spinal immobilization system. It must be used in conjunction with proper spinal immobilization such as the use of a cervical collar where conditions and protocols dictate.

The Spec Pak includes a Lifting Bridle System and X Collar.



# CTOMS Pocket Litter

Quick and easy casualty transport in military/tactical colours, for when time and weight is a key factor.

The CTOMS™ Pocket FX™ litter provides a quick and easy casualty transport when time and weight are key factors. The Pocket FX™ can also be quickly transformed into a casualty's personal effects bag, keeping all the casualty's gear with the casualty when they are being transported. The Ultra-light design of this litter allows you to carry the Pocket FX™ in multiple configurations including a small pouch, your med bag, or even in your cargo pocket.

Internal personal Effects Storage Bag  
4 x Durable/ Coated grab handles  
Constructed of lightweight 70 D Cordura Nylon



A dramatic photograph of two climbers rappelling down a steep, rocky mountain face at night. One climber is in the foreground, wearing a red jacket and a headlamp, looking back over their shoulder. The other climber is further down the rope. The background shows the dark silhouette of the mountain range against a sky filled with large, billowing clouds illuminated by a setting or rising sun.

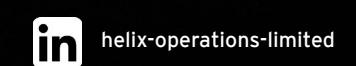
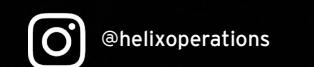
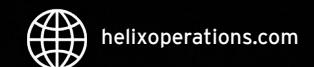
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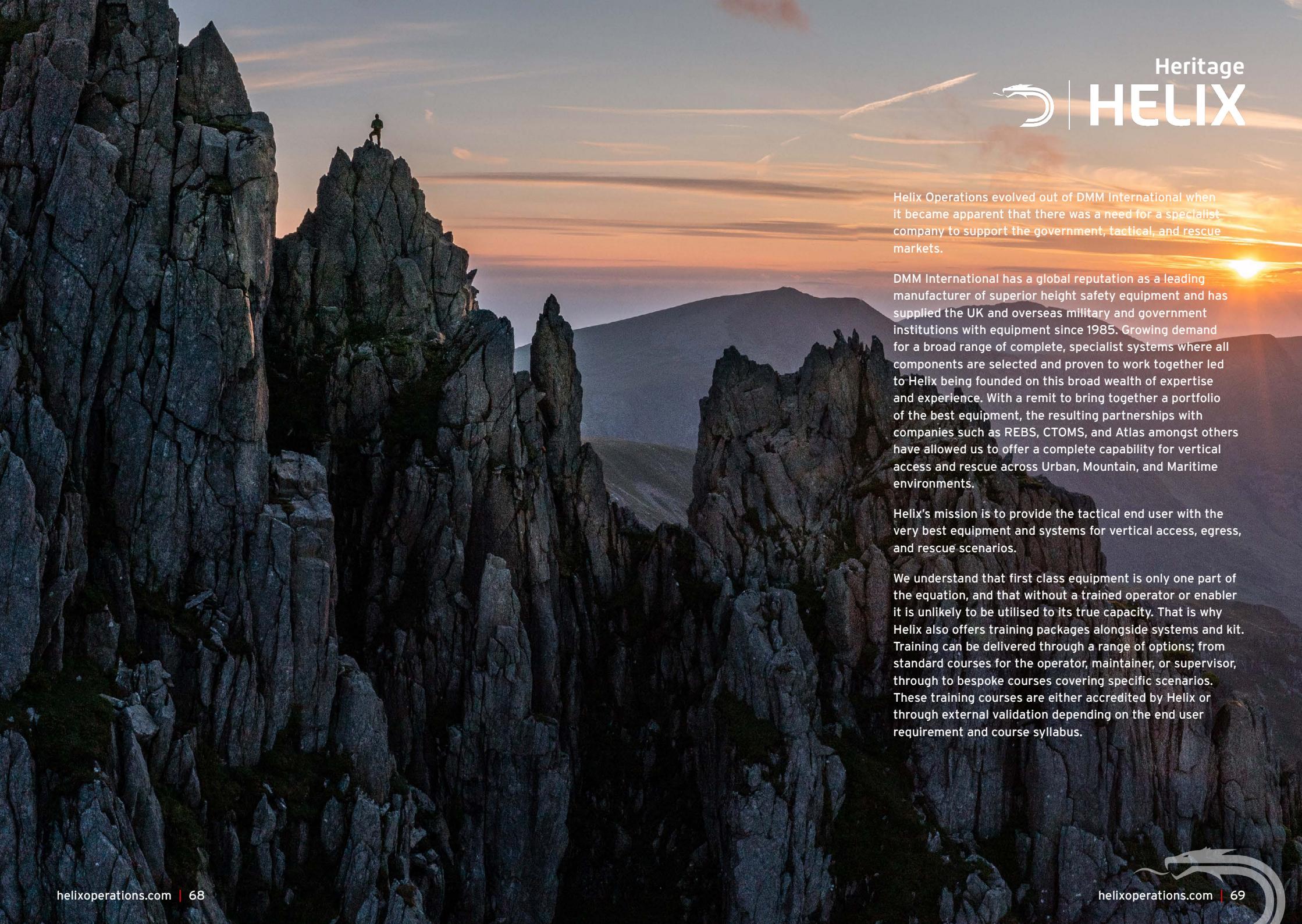


Keep updated with Helix operations across platforms such as [helixoperations.com](http://helixoperations.com), Tactical and Rescue Instagram accounts as well as LinkedIn. We share exciting information regarding products we manufacture ourselves as well as key products from brands we work with.

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.





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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