



HELIX

Gloves



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.

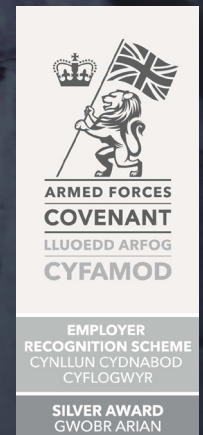
ICAGE: U1AG3
Company Number: 10316654
DUNS: 221986629
NCAGE: U1AG3



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 dismantled troops in urban environments with the ATV carbon bridge ladder demonstrating how tough carbon can be.



ATLAS DEVICES

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.



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 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.

Standards and Certifications

EN 388: 2016

EN388 is the European safety standard for protective gloves against mechanical risks. This standard uses index values to rate the performance of a glove when protecting you against various risks including abrasion, blade cut, tear, puncture and impact.

The major update to this standard happened in 2016. Until 2023, products tested to the earlier EN 388:2003 are still valid but they will have to be tested under the new methods in time.

Should you see an 'X' under the icon, this means that the test either could not be preformed or it is not applicable. If one of the first four characters is replaced with a 'O' it means level 1 cannot be achieved.

1. ABRASION RESISTANCE

The material is subjected to abrasion by a sandpaper under a determined pressure. The protection level is indicated on a scale of 1 to 4 depending on the number of turns required until a hole appears in the material. The higher the number is, the better the resistance to abrasion.

2. CUT RESISTANCE, COUP TEST

The cut protection is tested. A knife is passed over the glove material until it cuts through. The protection level is given by a number between 1 and 5, where 5 indicates the highest cut protection. If the material dulls the knife during this test, the cut test ISO 13997(TDM test) shall be performed instead, see point 5.

3. TEARING STRENGTH

The force required to tear the glove material apart is measured. The protection level is indicated by a number between 1 and 4, where 4 indicates the strongest material.

4. PUNCTURE RESISTANCE

Based on the amount of force required to puncture the material with a tip. The protection function is indicated by a number between 1 and 4, where 4 indicates the strongest material.

5. CUT RESISTANCE, TDM TEST ISO 13997

If the knife gets dull during the coup test, see point 2, this test shall be performed instead. The result is given by a letter, A to F, where F indicates the highest level of protection. If any of these letters is given, this method determines the protection level instead of the coup test.

ISO 13997:1999 - Determination of resistance to cutting by sharp objects.

An alternative cut test recommended for cut protection gloves. Shall be used in EN388:2016 for cut protection gloves where the cut material dulls the cutting knife during testing. A knife cuts with constant speed but increasing force until breakthrough of the cut protection material. Level of protection is given in Newton, the force needed for cut through at 20mm cut length.

6. IMPACT PROTECTION

If the glove has an impact protection, this information is given by the letter P as the 6th and last sign. If no P sign, no impact protection is claimed.

EN 388 : 2016



4 5 4 3 C P

		Test	Rating
2003	2016	Abrasion resistance	1-4
		Cut Resistance (Coup Test)	1-5
Tear Resistance		1-4	
Puncture Resistance		A-4	
Cut (TDM Test)		A-F	
Impact Resistance		P (PASS) or Not Rating	

Standards and Certifications

EN 407

This standard specifies demands and test methods for protective gloves that shall protect against heat and/or fire. The numbers given besides the pictogram indicates the gloves performance for each test in the standard. The higher number the better performance level.

1. FIRE PROPERTIES OF THE MATERIAL

The ignition time and how long the material glows or burns after ignition is measured in this test. If the seam comes apart after an ignition time of 15 seconds, the glove has failed the test.

2. CONTACT HEAT

The glove is exposed to temperatures between +100°C to +500°C. Then it is measured how long it takes for the inner side of the glove to become 10°C warmer than it was from the beginning (about 25 °C degrees). The glove must withstand the increasing temperature of maximum 10°C for at least 15 seconds for an approval.

3. CONVECTIVE HEAT

Here it is measured how long it takes to increase the inside temperature of the glove with 24°C, using a gas lubrication (80kW / m2).

4. RADIANT HEAT

The average time is measured for a heat permeation of 2.5kW / m2.

5. SMALL SPLASHES OF MOLTEN METAL

The test is based on the number of drops of molten metal that generates a temperature increase between the glove material and the skin with 40°C.

6. LARGE QUANTITIES OF MOLTEN METAL

A PVC film is attached to the back of the glove material. Molten iron is poured onto the material. The measurement consists of how many grams of molten iron required to damage the PVC film.

EN 407



1 2 3 4 5 6

Test	Rating
Fire Properties of the Material	1-4
Contact Heat	1-5
Convective Heat	1-4
Radiant Heat	A-4
Small Splashes of Molten Metal	A-F
Large Quantities of Molten Metal	P (PASS) or Not Rating

Comparing Gloves

Applications



EN 388:2016



EN 407

Brand	Product Description	Fast Roping	Abseiling	Shooting	Abrasion resistance	Cut resistance (Coupe Test)	Tear resistance	Puncture resistance	Cut resistance (EN ISO 13997)	Impact protection (EN 13594)	1	2	3	4	5	6	CE Cat 2
MoG	MoG Fast Rope Glove	•			3	4	3	4	D		X	1	X	X	X	X	•
	MoG Abseil Glove		•		4	1	3	3	x		X	1	X	X	X	X	•
	MoG Target Light Duty		•	•	2	1	2	1	X		X	1	X	X	X	X	
	MoG Target High Abrasion		•	•	4	1	2	1	X		X	1	X	X	X	X	
	MoG Target High Abrasion ErgoShield		•	•	4	1	2	1	X		X	1	X	X	X	X	
W+R	Charon	•	•	•	4	4	4	1	D		4	X	X	X	X	X	•
	Pluto	•	•	•	4	5	4	2	B	P	4	X	X	X	X	X	•
	Herakles		•	•	3	1	2	2			4	X	X	X	X	X	•
	KinetiXx X-Rope	•	•	•	4	5	4	3			4	X	X	X	X	X	•
	KinetiXx Roar		•	•	2	1	4	1	X								•
Granberg	Aramid Tactical	•	•	•	3	2	4	3	X		X	1	X	X	X	X	•
Outdoor Research	Direct Route II Glove		•	•													
	Suppressor Glove		•	•													
	IronSight Sensor Glove		•	•													
PIG	Alpha FDT Glove			•													
	Alpha FR FDT Glove			•													
Mechanix Wear	Speciality 0.5mm			•	1	1	2	1	X								•
	M-Pact 3			•	3	11	2	1	X	P							•
Black Diamond	Transition Glove		•		2	1	4	2									•
Yates	Fast Rope Glove	•															
Bennet Safetywear	Fast Roping Gloves	•			4	3	4	4	X		4	3	X	X	4	4	•

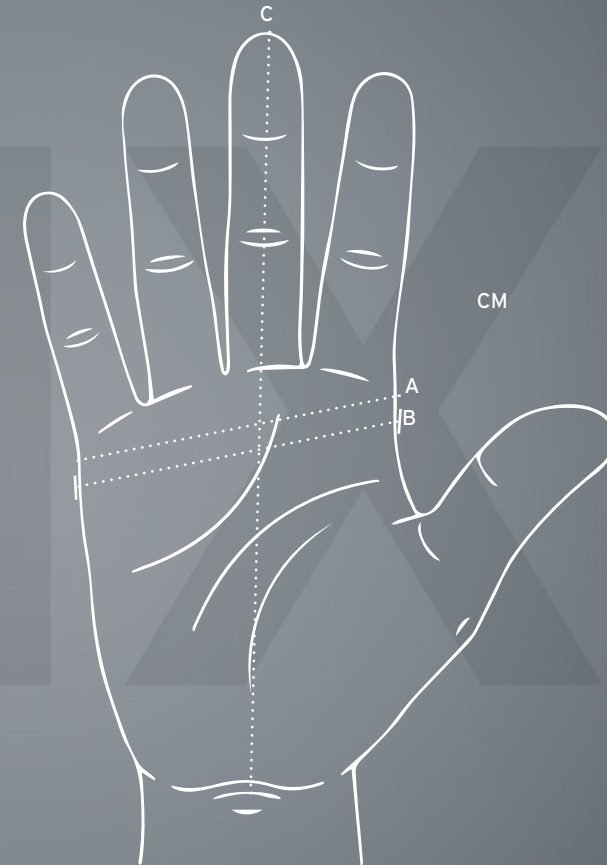
Glove Size Chart

Each manufacturer has a preferred method of measuring your hand to find a correct fit. Find the brand/product you are interested and see above if you need to measure hand circumference, palm width or finger length. Units are expressed in centimetres.

Hand Circumference

Using a measuring tape, wrap tape around the widest part and make a loose fist (excluding thumb). Use your dominant hand. See illustration 'A'.

Brand	Product Description	xxx-Small	xx-Small	x-Small	small	Medium	Large	x-large	xx-large	xxx-large	xxxx-Large
Centimetres											
MoG	MoG Abseil, MoG Fast Rope			16.5	18	20.5	22	25.5	26	26.5	28
W+R	Charon, Pluto, Ceres, Herakles, KinetiXx-X-Rope, KinetiXx- Roar			16.2 17.6	18.9 20.3	21.6 23	24.3 25.7	27 28.4	29.7 31.1	32.4	
Outdoor Research	Direct Route Glove, Suppressor Glove, Ironsight Sensor Glove			16.5 18.4	18.4 20.3	20.3 21.6	21.6 24.1	24.1 25.4			
PIG	Alpha FDT Glove, Alpha FR FDT Glove				19.05 20.32	20.32 21.59	21.59 22.86	22.86 23.5	>23.5		
Yates	Fast Rope Glove				17.8	20	23	25	28		
Bennet Safetywear	Fast Roping Gloves		15.2	17.8	20.3	22.9	25.4	27.9	30.5	33	35.6



Palm Width

Measure across the top section of your palm. See illustration 'B'.

Granberg	Aramid Tactical			9.5	10	11	11.5	12	12.6	13	
Mechanix Wear	Speciality 0.5mm, M-Pact 3	< 5.08	5.08 5.71	5.71- 6.35	6.35 7.62	7.62 8.57	8.57 9.84	9.84 11.1	11.1 12.07	12.07 13.65	

Finger Length

Measure from the crease at the base of your wrist to the tip of your middle finger. See illustration 'C'.

Black Diamond	Transition Glove			17.1 18.4	18.4 19.7	19.7 21	21 22.2	22.2 24	23.5 24.9		
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Understanding Glove Materials

Leather



Leather is durable, pliable, supple natural material which has exceptional breath-ability properties. It is the most commonly used base material for gloves, however there are many different qualities of leather depending on which animal it is taken from, the part of the animal it was taken from and the tanning process.

Deerskin:

Because of its extreme softness and unsurpassed durability and ability to remain soft after it gets wet, deerskin makes an excellent glove leather. There are several types of deerskin, but notably, North American white tail deer is best for gloves. Other deerskin options are mule deer, black tail and a domestically raised deer from New Zealand. These are all decent leathers, but inferior when matched against white tail deerskin.

Goatskin:

Goatskin is slightly softer but tougher than cowhide. It is economical, durable, thin yet strong and has a smooth, fine grain. It is also flexible and is water resistant and highly resistant to abrasion. It has a high natural oil content that makes goatskin very soft and pliable. Flexible and water-resistant, goatskin has excellent tear resistance even when very thin.

Cowhide:

Cowhide is heavy and the most commonly used leather. It is easy to care for, dirt and water resistant, a great value for the texture, durable and comfortable. Cowhide is resistant to dirt, water, heat and abrasion. Although it can be somewhat stiff at first, cowhide breaks in easily.

Pigskin:

Pigskin is the lowest cost leather option, generally suitable for lower price points but not the best for durability.

Grain of Leather:

Full or top grain leather comes from the external side of the hide and has the best properties for manufacturing gloves in most cases. It is typically smooth and has high durability especially when thin compared to split leather which comes from the inside layers of hide. Split leather can have uses though such as fast rope gloves where a high friction, rough outer surface is required to help improve friction.

The area where the hide is cut determines durability:

Leather cut from the sides and shoulder of the animal offers the greatest durability.

Belly and neck cuts are less durable, and are often used for "economy grade" gloves and trims.

Pittards KERATAN™ Abrasion Resistant Leather



Pittards Keratan is a unique treatment designed to significantly increase the abrasion protection and durability of Pittards performance goatskin leathers. Unique 'etched diamond' surface treatment. Bonded to the leather's fibre structure, the patterned surface allows the leather to retain flexibility and comfort while offering maximum abrasion resistance. W+R selected this material for their Ceres Abseil glove and Herakles Rope Glove.

Synthetic Leathers

Clarino™



Synthetic leathers are another option manufacturers use for a lower maintenance option to leather. They do not fade or crack. Clarino™ is a synthetic leather, microfibre. Chosen by PIG for their Alpha FDT Glove, because of the thinness of the material. Clarino is 30% lighter than leather.

AX-Suede™



The dexterity required for a shooting glove, Mechanix Wears Speciality 0.5mm has been constructed using AX-Suede™ which they feel provides the perfect blend of tactile control and protection. AX-Suede™ was developed specifically with gloves in mind.

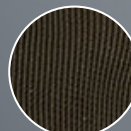
Synthetic Polymers

W+R Sharktec®



Specially designed by W+R for their gloves. The Sharktec® surface consists of thousands of microscopic and varied 3D structures that follow every natural movement of the hand.

Polyester and Spandex Blend



A blend of polyester and spandex gives you warmth, breath-ability, and movement-mirroring stretch as the core material. We see Outdoor Research use this as their main rear of hand material.

Elastic Polymers

D30®



D30 is a dilatant material that hardens under impact and is used to absorb shock - In normal use it is soft and flexible, but under sudden load (shear stress) hardens rapidly to provide protection. D30® is used in the palm of the Mechanix Wear M-Pact 3 glove.

Aramid Fibres

Aramid Fibres

Aramid fibres, short for aromatic polyamide, are a class of heat-resistant and strong synthetic fibres. The chain molecules in the fibres are highly oriented along the fibre axis. As a result, a higher proportion of the chemical bond contributes more to fibre strength than in many other synthetic fibres. Aramids have a very high melting point (>500 °C). This category of materials is split into two categories, para-aramids and meta-aramids.

Para-Aramids

Kevlar®

The first aramid fibre, developed by DuPont. It is extremely strong, Kevlar is five times stronger than steel by weight and is commonly used in military applications for "bullet proof" armour fabric. Kevlar is used as a liner in tactical gloves to provide a thin, but very efficient protective layer against cuts, abrasions and heat. The thinness and flexibility of the Kevlar liner allows much greater protection whilst allowing the glove to remain tactile.

Meta-aramids

Nomex®

Following Kevlar, DuPont went on to develop Nomex as a flame resistant meta-aramid. Instead of melting like other synthetic materials like nylon, Nomex chars making it ideal for protection in high heat. When Nomex® is exposed to intense heat, its fibres thicken and carbonize—absorbing heat energy in the process. Additionally, Nomex® fibres won't melt, drip or support combustion. Manufacturers such as W+R tend to use it for abseiling gloves such as Ceres glove.





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Master of Gloves Target Light Duty

The MoG Target Light Duty glove stands out as a pioneering glove, boasting an ultra-thin 0.6mm profile, a snug fit that mimics a second skin, and heightened finger sensitivity for unparalleled performance thanks to the MoG DexSuede technology.

DexSuede also provides protection against contact heat up to 100 degrees for 10 seconds. A good all round tactical operations glove designed for weapon handling developed with users within Special Forces and Law Enforcement.

- 1 Precision stitching over the fingertips enhances finger sensitivity, facilitating flawless weapon handling, frisking, and the operation of delicate equipment. The remarkably thin suede amplifies trigger finger sensitivity, ensuring optimal performance and is also touch screen compatible.
- 2 C-Grip Construction enhances glove durability and shields the index finger from burns caused by the hot barrel of a rifle. 2 Flex Joints positioned at the shooting finger level; these joints provide maximum flexibility during weapon handling.
- 3 The back of the glove is constructed from 4-way stretch, durable, breathable, and quick-drying fabric. The mixed silicon print offers excellent grip on various surfaces, including weapons, ropes, textiles, and sweaty skin.

The MoG Target Light Duty glove is exceptionally lightweight but durable, offering enhanced finger sensitivity, allowing the operator to perform tasks as if no glove is worn at all.





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MoG Target High Abrasion

The MoG Target High Abrasion stands out as a highly finger-sensitive and slim-fit tactical glove, featuring MoG's innovative ArmaSuede technology. This synthetic suede surpasses tactical standards, exhibiting eight times the strength. With all round performance, it is the best choice for operators wanting a glove that is durable and versatile. Developed in conjunction with Special Forces in different environments.

- 1 ArmaSuede is a synthetic suede which combines high dexterity and extremely high abrasion resistance. It also protects the wearer against contact heat of 100 degrees for 10 seconds.
- 2 The dexterity and wearer comfort of this glove is thanks to several features including slim-fit finger construction that is stitched over the fingertips providing the utmost finger sensitivity which is important when handling weapons and other equipment. The fingertips are also touchscreen compatible.
- 3 The comfortable neoprene cuff offers easier movement near the wrists with basic impact protection and a reinforced opening serves both as solid pull-tab and fixing point to belts or carabiners.
- 4 Trigger guard reinforcements and 4-way stretch on the back of the hand gives better stretch, durability and breathability. A mixed silicon print provides an excellent grip on weapons, ropes and textiles.

C-Grip construction protects the index finger against burns from the hot barrel of a rifle and reload thumb construction and specific design enables perfect mag reloading.





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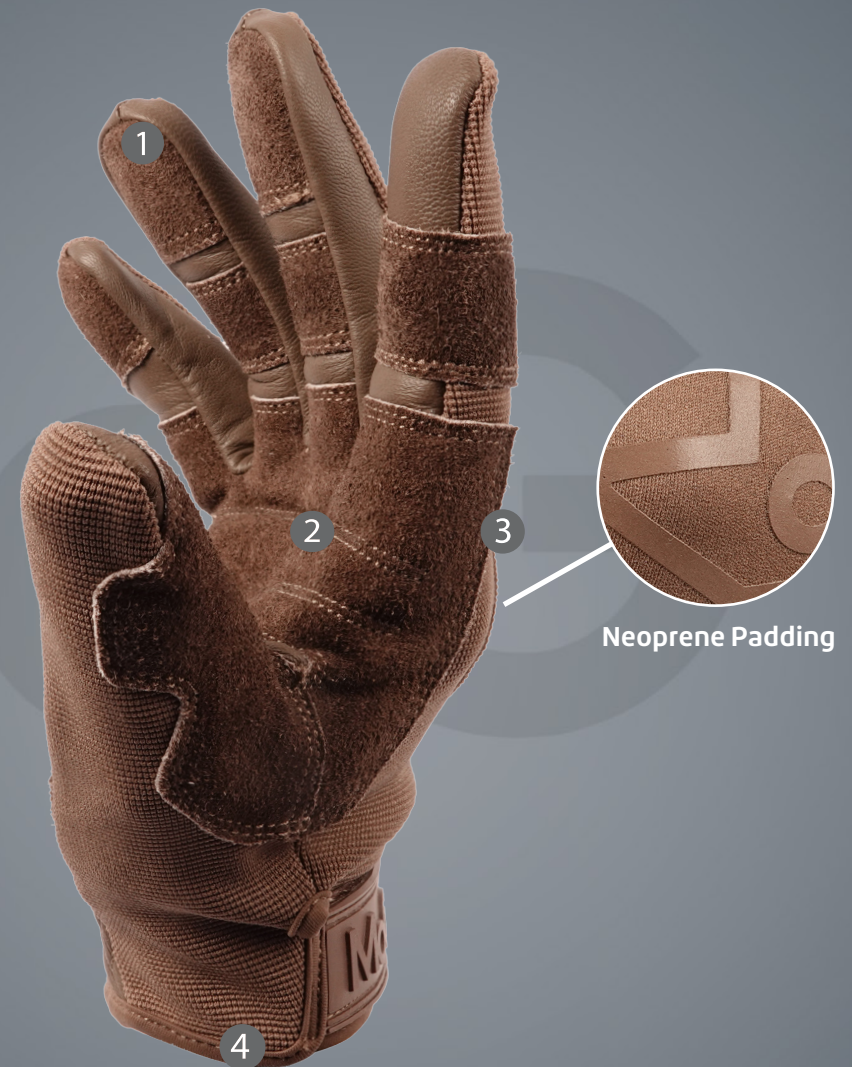
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MoG Fast Rope Tactical Glove

The MoG Fast Rope Tactical glove, developed in collaboration with the Instruction Group Rotary Wing (Royal Dutch Army), is made for professional and tactical use during combat operations. Its distinctive features set it apart from other Fast Rope gloves, particularly in its suitability for rope-to-gun transitions. The glove is certified according to EN 388 and EN 407 standards for mechanical protection and for protection against contact heat.

- 1 Slim fit finger construction provides extremely high finger sensitivity for handling ropes, weapons, radio and equipment, and avoids the risk of twisted fingers. Conductive leather on index and thumb for handling touchscreen devices.
- 2 The multiple layering forms a great buffer against heat accumulation during fast roping, without impacting on the dexterity. Split leather palm provides excellent grip on both dry and wet ropes.
- 3 Knuckle area partly covered with neoprene padding offering soft impact protection. Back of hand in breathable 4-way stretch nylon fabric.
- 4 Short cuff allowing free movement at the wrist and solid TPR patch with hook and loop closure for adjustable fit. A Strong foldable loop with opening for fixing to carabiner or for attaching to harness or belt.

The glove provides higher protection against heat accumulation in the palm and fingers, and is certified to the EN 407 standard - Contact Heat protection level 2 (claimed only for palm and fingers).





3 4 3 4 D



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MoG Fast Rope Glove

The MoG Fast Rope glove has been developed with the Instruction Group Rotary Wing (Royal Dutch Army) and is intended for professional and tactical use during fast roping training and operations.

They are highly abrasion resistant gloves, designed for handling weapons and rappelling up to a distance of 90ft. Certified to EN 388:2019, EN 407:2011 and EN ISO 21420:2020.

- 1 Reinforcement of critical areas such as the index fingers and thumbs provide extra protection and recess on crucial areas such as the thumb and index finger give extra flexibility. The material on the back of the hand is elastic and quick drying for a breathable and comfortable fit.
- 2 A slim fit finger construction provides extremely high finger sensitivity for handling ropes, weapons, radio, and equipment and avoids the risk of twisted fingers. Additional padding in the palm of the hand guarantees high protection against friction and heat development, enabling rope operations up to 90ft.
- 3 Split leather palm provides excellent grip on both dry and wet ropes and is a great buffer against heat accumulation during fast roping.
- 4 Opening for attachment to carabiner and an extra wide cuff with velcro closure and strengthening of the wrist.



Master of Gloves Abseil Glove

The MoG Abseil/Rappel gloves have been developed in conjunction with several dedicated users and specialists in tactical rope training and height work instructors. These gloves combine 3 major elements that are crucial when handling and securing ropes : high dexterity, high abrasion resistance and firm grip. Some added features make this snug fit glove highly efficient for roping.

Designed for use by armed forces, law enforcement/special units, rescue operations, instructors/professionals working at height.

- 1 Split leather palm provides excellent grip on both dry and wet ropes and is a great buffer against heat accumulation during rappelling. Back of hand in breathable 4-way stretch nylon fabric offers comfort and slim fit finger construction provides extremely high finger sensitivity for handling ropes, weapons, radio and equipment, and avoids the risk of twisted fingers.
- 2 Conductive leather on index for handling touchscreen devices.
- 3 Reinforcement of critical areas on/between thumb and index finger, for extra protection and extra stitching lines at strategic points ensures higher dexterity. There is an opening for attaching the gloves to a carabiner for attaching to harness or belt.
- 4 A nose-wipe on the back of thumb to wiper off sweat or rain from goggles or visors.



W+R Charon Glove

EN 388 : 2016

EN 407



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4 X X X X X



W+R Sharktec®
Surface

The W+R Charon has been designed for fast roping from helicopters or abseiling/rappelling during rescue operations, particular attention was spent during the design and testing stages to ensure the glove performs well in wet weather conditions.

- 1 The 3D palm design combines nanotechnology on the fingers with reversed goat grain leather on the palm's centre which allows for controlled abseiling and fast roping even in wet conditions.

The Charon can be used throughout an entire operation which involves abseiling/rappelling, fast roping and shooting thus removing the requirement for a second glove thanks to the anatomical palm design for easy hand flexing and a tactile shooting finger design.

Reinforcements on the palm and of the edges of the glove protects the hand against the rope. Highly cut-resistant, flame-retardant and heat-resistant.

- 2 The Index finger, fingertip and thumb reinforcement are made from cut-resistant Kevlar® with temperature-resistant silicon-carbon coating which also gives a repellent action against burning liquids.
- 3 The back of the glove and thumb are made from high-quality black Nomex® with reduced pilling as well as water, oil, and dirt repellent fluorocarbon impregnation.
- 4 A Velcro fastener gives a reliable hold on the wrist and a pull tab on the middle and ring finger allows for easy donning and doffing of the glove.
- 5 The internal surface of the palm is constructed from Volcano-Technology which consists of small volcano shaped structures in direct contact with the users skin giving thermal insulation and good grip preventing the fingers from twisting when going down the rope.



Internal Volcano-
Technology

W+R Pluto Glove

EN 388 : 2016

EN 407



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The W+R Pluto is certified to EN388:2003 and EN407:2004, it is a tactical glove suitable for fast roping from helicopters and abseiling/rappelling during rescues from heights or depths. The inconvenience of having to wear a fast roping glove over a regular operations glove is now a thing of the past, as the Pluto can be worn throughout the entire operation for both abseiling/rappelling and shooting.

- 1 The 3D palm design is based on Volcano technology which offers air cushions for thermal isolation and maximum grip to prevent the twisting of fingers.
- 2 The index finger and finger reinforcements which have a repellent action against burning liquids, are made from cut resistant Kevlar with a temperature resistant silicon carbide coating.
- 3 The back of the glove, cuff and back thumb areas are made from high quality Nomex for reduced piling and light-duty cut-resistance.
- 4 A 3D one layer system on the outside of the glove is designed for professional abseiling/rappelling and fast roping when controlled abseiling, speed control and braking is required. The ergonomic design is adapted to the shape of the hand for easy hand flexing and a high level of tactility.



W+R Sharktec®
Surface

W+R Herakles Glove

The W+R Herakles is certified to EN388:2016 and EN407:2004 and has been developed for abseiling/rappelling as well as for general rope work. This glove is characterised by its perfect fit, high abrasion levels and longevity. It features state-of-the-art leather technology such as the highly abrasion resistant Keratan leather which is integrated into the gloves palm.

- 1 The palm section of the glove is made from high performance, black goat leather which is smooth, breathable and robust. It has been ergonomically adapted to the shape of the hand for easy hand flexing and high levels of tactility. The surface features a special diamond-print which increases the friction level.
- 2 The back of the glove, cuff and back of thumb areas are made from high quality coyote-coloured Nomex for reduced peeling and lightweight cut-resistance. The 3D soft protector is made from energy-absorbing micro foam with memory function, it is ergonomically adapted to the knuckles and back of the glove for a perfect fit.
- 3 An integrated slip-on aid and Velcro fastener on the back of the wrist, allows easy donning and removal of the glove. The index finger and thumb are both touchscreen capable.



EN 388 : 2016



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EN 407



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Cat. II





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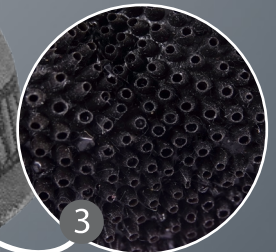
W+R KinetiXx X-Rope Glove

This glove supports controlled abseiling/rappelling whilst ensuring a high level of cut, heat and flame resistance thanks to W+R's Sharktec technology. Suitable for military operations, Special Forces, Police Tactical Units, and helicopter operations.

- 1 W+R's Sharktec technology offers excellent hand protection and optimal performance with excellent grip. The surface of the glove is made up of thousands of microscopic 3D structures which follow the natural movement of the hand.
- 2 The outside of the glove is constructed from a single-layer system with 3D design that ensures controlled abseiling including adjusting the speed and stopping on the rope.
- 3 The internal palm area features Volcano technology and is thermally insulated with air cushions. Backhand of the glove is made of flame-retardant material, and ergonomic and hard protectors on the back of the hand help with guiding the rope.



Image: 'KinetiXx X-Rope Glove'
Tom Weber for W+R PRO
GmbH



3
Internal Volcano-
Technology



W+R KinetiXx X-Roar Glove

- 1 Full-fingered abseiling/rappelling gloves for rope work and rescue operations made from high quality goat skin leather which are high dexterous and abrasion resistant.
- 2 Ergonomically fit with a neoprene cuff with modern closure for a good and comfortable fit.
- 3 Back of hand made using a high-quality knitted material (94/6 % PES/Spandex)

The glove gives a good grip thanks to the tight leather fit and is touchscreen compatible.

Eyelets fasten gloves to a carabiner.

Goatskin Leather



Granberg Aramid Tactical Rope Glove



The Granberg Aramid Tactical Rope Glove is a goatskin, full Kevlar lined glove for fast roping and abseiling/rappelling. Suitable for Rope Rescue, Fast-Rope operations, Military, Special Forces, Law Enforcement and Security.

- 1 The goatskin leather provides excellent comfort and touch sensitivity whilst the Kevlar lining in the palms and fingers protect the skin from heat and cuts. Leather reinforcements in the palm give the user better control during rappelling.
- 2 A breathable nylon mesh on the back of the hand area, keep hands cool and dry.
- 3 Donning and doffing of the glove is made easier with a rubber pull tab for removal and a Velcro closure on the wrist.



Outdoor Research Direct Route II Glove

The Direct Route II from Outdoor Research is a full finger belay glove that is breathable, durable, and comfortable and good for all-day climbs.

- 1 A polyester and spandex blend gives you warmth, breath ability, and movement-mirroring stretch whilst the goat leather palm and split suede overlay provides hand protection from frequent belaying and abseiling/rappelling.
- 2 The carabiner loop means the gloves can be attached to a carabiner, racked and close to hand.



Outdoor Research Suppressor Glove

Snug-fitting, durable, and FR gloves built with a Nomex® interlock knit, a tactile and durable goatskin leather palm and padded knuckles. The pre-curved construction and Precision Grip™ off-center seams allow for incredible articulation and sensitivity when handling delicate machinery.

- 1 The Suppressor Glove by Outdoor Research is constructed from a durable goatskin leather palm, padded knuckles and Nomex® flame resistant material.
- 2 Precision Grip™ off-centre seams give the Suppressor its snug fit and the pre curved construction allows for the incredible articulation and sensitivity.

The Suppressor is also breathable, moisture wicking and has a contoured wrist with a pull loop for user comfort.



Outdoor Research Coldshot Sensor Glove

A lightly insulated all-round tactical glove suitable for abseiling and rappelling in cooler weather.

The light insulation means the glove can be worn in cooler weather but retains the feel and enhanced tactility.

- 1 Constructed with durable, tactile-sensor goat leather palms and a water-resistant DWR treatment.

A comfortable and efficient fit is provided by the streamlines, close fitting pre-curved boxed construction.



Outdoor Research Firemark Sensor Glove

The Outdoor Research Firemark Sensor Glove is comfortable and functional tactical glove offering breathability, dexterity, and technological compatibility.

- 1 Protection is provided through lightweight Nomex® fabric for flame resistance, and light padding and leather knuckles provide a barrier against damaging impact.
- 2 Leather palms and fingertips mean touchscreen devices can be used whilst wearing the gloves.

These gloves offer the ultimate in tactility due to the water resistant goat leather on the palm and fingers and Precision Grip™.



Outdoor Research Ironsight Sensor Glove

The OR Ironsight Sensor Gloves are a quick drying, highly breathable glove made with exerous and supple synthetic leather for solid grip and extreme sensitivity during delicate tasks.

Slip-free grip pads on the palms and fingers, along with a seamless Precision Grip™ construction, provide superior tactility.

Legendary within the Tactical community for their amazing tactility and grip, the Ironsight Sensor glove offers ultra-tactile precision.

Fabric Performance:

- Breathable
- Ultra-Tactile
- Lightweight
- Quick Drying
- Synthetic Leather Palm
- Movement-Mirroring Stretch

Design Features:

- 1 Anti-Slip Silicone Pads
- Touchscreen Compatible
- Pre-Curve Boxed Construction

Functional Details:

- 2 Hook and Loop Cuff Closures
- Pull Loop for Easy On/Off
- 3 Contoured Wrist
- Tapered Wrist



PIG Alpha FDT Glove

The PIG FDT Alpha Gloves provides excellent weapon handling dexterity and protection.

- 1 The single layer multi-piece palm means that only one layer of material contacts the shooting grip and the thinnest available Clarino™ material on the trigger finger offers the ultimate sensitivity and feel.
- 2 Touch Screen conductive synthetic suede on the index finger and thumb provides full compatibility with all devices.
- 3 Hand protection is provided from the Stretch Ballistic Nylon 1000D Padded Knuckles.

This is a consumable product due to the selection of sensitive materials and extremely tight seams, meaning that these gloves should be worn to destruction, then discarded and replaced.

- Low Profile Hook Closure - Reduces abrasion on clothing.
- Flex Joints - Enhanced flexibility and ventilation on each finger.
- Dual Flex Joint Trigger Finger - Providing maximum flexibility where you need it most.
- Bar-Tacked Para Cord Pull Loop
- Short Cuff - Lightweight comfort and convenience.
- Micro Suede Nose Wipe - Fights against cold-weather drip.
- Increased wicking.
- Isolated Edge Padding - Protection without compromising the shooting grip.
- Wrap-Over Finger Tips - Provides additional comfort and protection for finger nails.



PIG Alpha FR FDT Glove

These high dexterity gloves feature construction entirely from flame resistant materials. The biggest material departure from the Alpha gloves is that the entire palm is made of actual Goat skin leather. While it will have a different feel from the synthetic suede on the Alpha glove, the leather palms and fingers will break in very nicely over time and provide better durability over the synthetic suede.

We worked closely with a special tannery that offers Touchscreen Compatible leather for the trigger finger and thumb. One thing you'll need to be aware of is that due to the high carbon and graphite content in the conductive leather, there will be some black color transfer onto your trigger finger and thumb. After wearing several times and allowing the glove to break in, we recommended that you hand wash the gloves and air-dry them to help with the breaking-in process and reduce most of the excess carbon and graphite.

- 1 Based on the PIG Alpha FDT Glove, the FR version is a high dexterity glove made from flame resistant Nomex® material and leather padded knuckles.
 - 2 The entire palm is made of goat skin leather meaning the FR has better durability over the synthetic suede found on the standard version.
 - 3 The leather is also touchscreen compatible on the trigger finger and thumb.
- Bar-tacked webbing wrist pull
 - Low profile hook and loop wrist strap
 - Tailored Fourschettes
 - Sensitized Trigger Finger
 - Single Layer Palm
 - Short cuff with loop-maximum comfort and convenience.





Mechanix Wear Specialty 0.5mm

A tactical glove designed to give a natural feel and provide lightweight hand protection with the perfect blend of tactile control for use in the field or at the shooting range.

- 1 Made from 0.5mm AX-Suede™ which provides precision feel and high dexterity.
- 2 Good trigger finger mobility is provided by the Breathable TrekDry® material which conforms to the back of the hand to reduce heat build-up and control perspiration, the addition of expandable flex joints in the fingers make this glove very comfortable to wear and operate equipment with.
- 3 A low-profile Thermoplastic Rubber (TPR) closure provides a secure fit to the wrist.



AX-Suede™





Mechanix Wear M-Pact® 3

The Mechanix Wear M-Pact® 3 offers full-coverage hand protection for military, law enforcement and Search and Rescue professionals.

- 1 D30 is used in the palm of the glove. D30 is a dilatant material that hardens under impact and is used to absorb shock - In normal use it is soft and flexible, but under sudden load (shear stress) hardens rapidly to provide protection.
- 2 The glove is designed to absorb forceful impact and give overall mobility thanks to Molded Thermoplastic Rubber (TPR) which meets EN 13594 impact standard.
- 3 EVA accordion padding reduces impact to the thumb and fingers and internal fingertip reinforcement supports extreme abrasion resistance.

D30®



Black Diamond Transition Glove

EN 388 : 2016

EN 407



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Black Diamond's Transition Glove offers a great combination of durability and dexterity by using many different layers of goat skin. The leather is thicker in the high-use areas and thinner in the low-use areas. They have some of the best articulated fit and dexterity. The goat skin makes them soft and comfortable right away; they don't require a long break-in period.

The articulated fit means there is very little "dead space" in the fingertips, and they grab things nicely. When you put them on they seem "pre-curved" so as to be ideally designed to hold biners and ropes.

- 1 The Black Diamond Transition is a full-fingered, goat leather glove with breathable stretch fabric. The woven nylon with four way stretch material makes the glove resistant to abrasion.
- 2 The balance between dexterity and durability is maintained by using various layers of goat skin built up to reinforce high wear areas whilst using single layers opposite stretch material panels to retain finger mobility.



Yates Fast Rope Glove

- 1 Thick-full grain leather extends over the palm and to the second joint of the fingers, to provide added protection from heat and friction generated when fast roping.
- 2 The index fingers are separated for trigger finger nimbleness and a carabiner hole features on the wrist part of the glove for attaching to a harness.
- 3 The entire glove is sewn with heat resistant KEVLAR thread.



Bennett Safetywear Fast Roping Glove

Bennet Safetywears standard fast-roping glove which is currently in service with specialist units worldwide. It is ideally suited to both training and operations where simultaneous use of a firearm is not required.

- 1 It is made from heavy duty leather which has excellent abrasion resistance and is reinforced in areas that are most subject to wear.
- 2 A soft aramid fleece palm lining offers thermal insulation and increased cut-resistance.
- 3 Touch and close wrist adjustment.



EN 388 : 2016



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EN 407



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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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