





HOATER is an enterprise which is specializing in the research, development, manufacture and sale of high-quality, special-purpose personal protective equipment. With more than thirteen years of experience in the production of safety harness and ropes, HOATER is engaged in safety protection for working at heights, rope work, outdoor rescue, mountaineering equipment and other fields has become an industry leader.

Through continuous functional innovation of various products, it is HOATER's primary goal to continuously provide customers with a complete set of product solutions that are safer, more reliable and more durable. HOATER's range of personal safety products has been specifically designed to ensure reliable protection and comfort in high or inaccessible areas.

In order to provide high-quality product experience and solutions, strict requirements for technology and quality have always been the core focus of HOATER; 200+ international CE product certifications, 12 international mountaineering association UIAA certifications, and 5 domestic invention patents, in 2021 has been awarded the "National High-tech Enterprise", these are our commitments to customers and users. HOATER's professional knowledge is based on long-term practical experience. After continuous technological innovation and testing, you can believe that:

HOATER=high-precision production process=personal protective rope has innovatively solved key technologies such as skin-core sliding, wear-resisting, and waterproofing for users;

HOATER aims to provide global customers with high-security products and high-standard services. Ensuring the safety, functionality and usability of each product is our greatest goal, which is inseparable from European technical standards, product certification and quality management systems.

HOATER continues to expand its research and development team, enhance its technical strength, vertically integrate its production capacity, and strictly implement the testing requirements beyond international standards as its core. Since 2010, we have manufactured a full range of professional equipment for working at heights and rescue, including fall arrest, and general personal protective equipment (PPE), our product includes helmets, harnesses, lanyards, ropes, fall arrester, tripods, rescue rappelling equipment, anchor points and slings, ascenders, descenders, pulleys, connectors, rescue stretchers. Through it all, our commitment to quality will always be our responsibility.

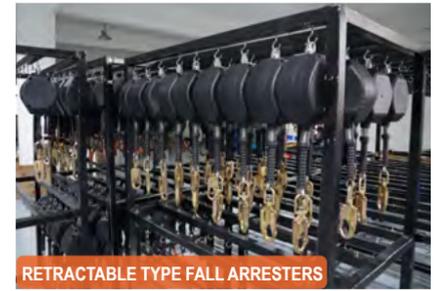
HOATER innovation: All products are designed for specific solutions and technologies (eg ropes, fall arresters, etc.)
 HOATER design: Designing outstanding products is our goal



CREEL



WEBBING MAKING MACHINE



RETRACTABLE TYPE FALL ARRESTERS



RESCUE TRIPOD



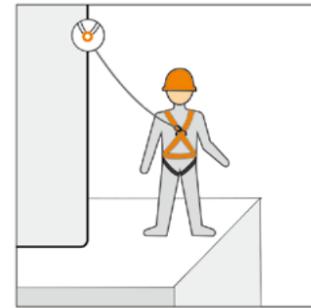
PROOF LOAD TESTING MACHINE



SALT SPRAY TESTING MACHINE

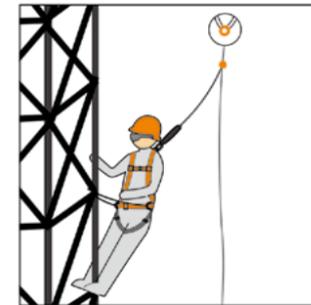


EN361	Personal protective equipment against falls from a height-Full body harness.
EN362	Personal protective equipment against falls from a height-Connectors.
EN358	Personal protective equipment for work positioning and prevention of falls from a height- Belts for work positioning and restraint and work positioning lanyards.
EN813	Personal fall protection equipments-sit harness.
EN355	Personal protective equipment against falls from a height-Energy absorbers.
EN354	Personal protective equipment against falls from a height-lanyards.
EN360	Personal protective equipment against falls from a height-Retractable type fall arresters.
EN353-2	Personal protective equipment against falls from a height-Part2:Guided type fall arresters including a flexible anchor line.
EN795	Personal fall protection equipment-Anchor devices.
EN1891	Personal protective equipment for the prevention of falls from a height -Low stretch kernmantel ropes.
EN892	Mountaineering equipment -Dynamic mountaineering ropes-Safety requirements and test methods.
EN564	Mountaineering equipment-Accessory cords.
EN12841	Personal fall protection equipment-Rope access systems-Rope adjustment devices.
EN12278	Mountaineering equipment-Pulleys-Safety requirements and test methods.
EN567	Climbing equipment and rope grabber.
EN1496	Fall protection PPE and rescue lifting equipment.
EN15151	Climbing equipment and brake device.
EN397	Industrial safety helmet.



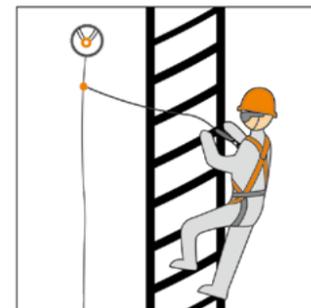
Restraint System

A restraint system prevents a worker from reaching hazardous areas by restricting the movement range for the user. A restraint system shall be designed to prevent the user from reaching areas where there is a risk of falls. It's not intended to absorb falls.



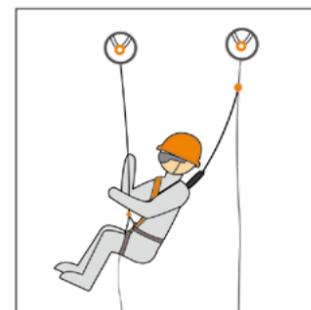
Work Position System

The work position systems are intended for work positioning or for restraint to prevent the operator from reaching hazardous areas.



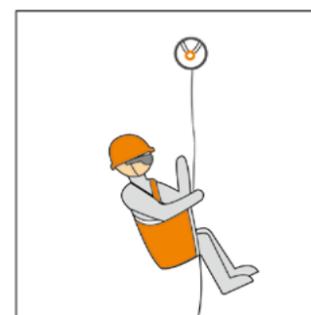
Fall Arrest Systems

A fall arrest system is intended to reduce the impact force on the user in case of fall. It's made of an anchor point, a full body harness and a connecting fall arrest sub system.



Rope access systems

Rope access systems allow the user by leaning into the system or hanging in the system to get to the work position and therefore determine that a free fall is prevented or delayed.



Rescue system

A rescue system intended for self rescue or to rescue an operator in case of a fall.



HT-331Y



- Full body harness with 2 fall arrest points, 2 aluminum D-rings on the chest and back in accordance with EN361, 2 aluminum D-rings on the sides in accordance with EN358 and 1 aluminum D-ring on the abdomen in accordance with EN813;
- Full body harness with 9 adjustable buckles; 1 aluminum safety hook on the abdomen with breaking strength >28kN;
- Abdomen can be equipped with chest ascender (chest lift is not included in this product), with 10.5mm~12mm diameter static rope for rope work;
- Ultra-comfortable waist, shoulder and leg pads, all of which are made of breathable hole process to improve the comfort when hanging;
- Open the belly lock buckle and back steel buckle, remove the shoulder straps to make a sit harness;
- 4 polyester waist belt tool loops, each loop has a maximum load capacity of 2 kilograms;
- Left shoulder strap and leg straps are made of aluminum quick-insert structure, easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE
HT-331Y	M-L	45-65cm	70-110cm	170-185cm	100kg	EN 358,EN 361,EN 813
	XL-XXL	60-75cm	80-130cm	180-195cm		



HT-327



- Full body harness with 2 attachment points for fall arrest :1 sternal aluminum D-ring and 1 dorsal aluminum D-ring according to EN361,2 side aluminum D-ring for work position according to EN358, 1 ventral aluminum D-ring according to EN813.
- Full body harness with 7pcs steel adjustable buckles and 1 ventral aluminum carabiner.
- Super comfortable EVA material waist padding belt, shoulder padding and leg padding provides maximum comfort when working at height.
- 2pcs tool loop in waist position belt made of polyester, maximum load capacity per loop 2kg.

REF.	Size	Legs	Waist	Height	Max Load	CE
HT-327	M-L	45-65cm	70-110cm	170-185cm	100kg	EN 358,EN 361,EN 813
	XL-XXL	60-75cm	80-130cm	180-195cm		



HT-721



- Intended for use with our fall arrest or work positioning harnesses,inside padding is made of aluminium which allows long term use without any deformation,
- Wider sitting area ensure good stability and allows comfortable suspension as well as standing at work positioning,
- 2 D-rings (bearing capacity 50kg)for bucket or other gear suspension.

HT-333



- Full body harness with 2 fall arrest attachment points, 1 aluminum D-ring on the back and aluminum rings on the chest according to EN361, and 2 aluminum D-ring on the side according to EN358;
- Full body harness with 5 adjustable buckles;
- Ultra-comfortable lumbar, shoulder and leg pads, all of which are crafted with breathable holes to enhance comfort while hanging;
- 4 polyester waist belt tool loops with a maximum load capacity of 2 kg per loop;
- The chest belt, waist belt and leg straps are made of aluminum quick-insert structure, which is easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE
HT-333	M-L	45-65cm	70-110cm	170-185cm	140kg	EN 358,EN 361
	XL-XXL	60-75cm	80-130cm	180-195cm		



HT-333QR



- Full body harness with 2 fall arrest attachment points, 1 aluminum D-ring on the back and aluminum rings on the chest according to EN361, and 2 aluminum D-ring on the side according to EN358;
- Full body harness with 5 adjustable buckles;
- Ultra-comfortable lumbar, shoulder and leg pads, all of which are crafted with breathable holes to enhance comfort while hanging;
- 4 polyester waist belt tool loops with a maximum load capacity of 2kg per loop;
- The chest belt, waist belt and leg straps are made of steel quick-insert structure, which is easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE
HT-333QR	M-L	45-65cm	70-110cm	170-185cm	140kg	EN 358,EN 361
	XL-XXL	60-75cm	80-130cm	180-195cm		





HT-335

- Full body harness with 2 fall arrest points, 1 aluminum D-ring on the back and aluminum rings on the chest according to EN361.
- Full body harness with 4 adjustable buckles;
- Ultra-comfortable shoulder and leg pads, all of which are crafted with breathable holes to improve comfort while hanging;
- The chest and leg straps are made of aluminum quick-insert structure, which is easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE		
		cm	cm	cm		EN 361	EN 358	EN 813
HT-335	M-L	45-65	70-110	170-185	140kg	✓		
	XL-XXL	60-75	80-130	180-195				



Tower Work

Construction

Confine Space

Roof Work



HT-335QR

- Full body harness with 2 fall arrest points, 1 aluminum D-ring on the back and aluminum rings on the chest according to EN361.
- Full body harness with 4 adjustable buckles;
- Ultra-comfortable shoulder and leg pads, all of which are crafted with breathable holes to improve comfort while hanging;
- Steel quick-insert structure for chest and leg straps, easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE		
		cm	cm	cm		EN 361	EN 358	EN 813
HT-335QR	M-L	45-65	70-110	170-185	140kg	✓		
	XL-XXL	60-75	80-130	180-195				



Tower Work

Construction

Confine Space

Roof Work



HT-328

- Full body harness with 2 attachment points for fall arrest :1 sternal steel D-ring and 1 dorsal steel D-ring according to EN361,2 side steel D-ring for work position according to EN358, 1 ventral steel D-ring according to EN813.
- Full body harness with 6 pcs steel adjustable buckles.
- Super comfortable EVA material waist padding belt, shoulder padding and leg padding provides maximum comfort when working at height.
- 2 pcs tool loop in waist position belt made of polyester, maximum load capacity per loop 2 kg.

REF.	Size	Legs	Waist	Height	Max Load	CE		
		cm	cm	cm		EN 358	EN 361	EN 813
HT-328	M-L	45-65	70-110	170-185	100kg	✓	✓	✓
	XL-XXL	60-75	80-130	180-195				



Tower Work

Construction

Confine Space

Roof Work



HT-316QR

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361, 2 textile rings on the chest; 2 steel D-ring on the side according to EN358;
- Full body harness with 6 adjustable buckles;
- Ultra-comfortable lumbar, shoulder and leg pads, all of which are crafted with breathable holes to enhance comfort while hanging;
- 2 polyester belt tool loops with a maximum load capacity of 2kg per loop;
- The chest belt, waist belt and leg straps are made of steel quick-insert structure, which is easy and quick to wear.

REF.	Size	Legs	Waist	Height	Max Load	CE		
		cm	cm	cm		EN 358	EN 361	EN 813
HT-316QR	UNI SIZE	45-65	70-95	170-185	100kg	✓	✓	



Tower Work

Construction

Confine Space

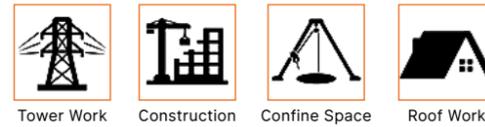
Roof Work



HT-316Y

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361 and 2 textile rings on the chest;
- Full body harness with 5 adjustable buckles;
- Ultra-comfortable shoulder pads and leg pads, all of which are crafted with breathable holes to improve comfort when hanging;
- The chest and leg straps are made of steel quick-insert structure, which is easy and quick to wear.

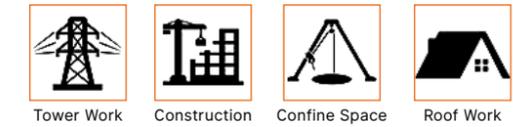
REF.	Size	Legs	Waist	Height	Max Load	CE	
		cm	cm	cm		EN 358	EN 361
HT-316Y	UNI SIZE	45-65	/	170-185	100kg	✓	✓



HT-321

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361, 2 textile rings on the chest; 2 steel D-ring on the side according to EN358;
- Full body harness with 6 adjustable buckles;
- Ultra-comfortable lumbar padding, the padding is crafted with breathable holes to improve comfort when hanging.

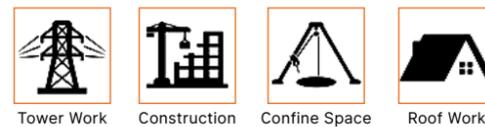
REF.	Size	Legs	Waist	Height	Max Load	CE	
		cm	cm	cm		EN 358	EN 361
HT-321	UNI SIZE	45-65	70-95	170-185	100kg	✓	✓



HT-316T

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361 and 2 textile rings on the chest;
- Full body harness with 5 adjustable buckles;
- Ultra-comfortable shoulder pads, the pads are crafted with breathable holes to improve comfort when hanging;
- The chest and leg straps are made of steel quick-insert structure, which is easy and quick to wear.

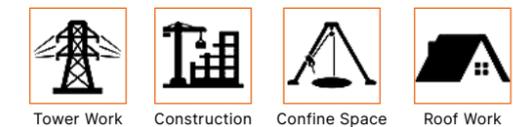
REF.	Size	Legs	Waist	Height	Max Load	CE	
		cm	cm	cm		EN 358	EN 361
HT-316T	UNI SIZE	45-65	/	170-185	100kg	✓	✓



HT-319

- 1 full body harness with fall arrest attachment point and 1 back steel D-ring according to EN361;
- Full body harness with 6 adjustable buckles;
- Ultra-comfortable lumbar padding, the padding is crafted with breathable holes to improve comfort when hanging.

REF.	Size	Legs	Waist	Height	Max Load	CE	
		cm	cm	cm		EN 358	EN 361
HT-319	UNI SIZE	45-65	70-95	170-185	140kg	✓	✓





HT-318

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361 and 2 textile rings on the chest;
- Full body harness with 5 adjustable buckles.

REF.	Size	Legs	Waist	Height	Max Load	CE
		cm	cm	cm		EN361
HT-318	UNI SIZE	45-65	/	170-185	140kg	✓



Tower Work



Construction



Confine Space



Roof Work



HT-317

- Full body harness with 2 attachment points for fall arrest :1 sternal steel D-ring and 1 dorsal steel D-ring according to EN361.
- Full body harness with 5 pcs steel adjustable buckles on the shoulder straps , chest straps and legs loop.

REF.	Size	Legs	Waist	Height	Max Load	CE
		cm	cm	cm		EN 361
HT-317	UNI SIZE	45-65	/	170-185	140kg	✓



Tower Work



Construction



Confine Space



Roof Work



HT-315

- 1 full body harness with fall arrest attachment point, 1 steel D-ring on the back according to EN361 and 2 textile rings on the chest;
- Full body harness with 5 adjustable buckles.

REF.	Size	Legs	Waist	Height	Max Load	CE
		cm	cm	cm		EN361
HT-315	UNI SIZE	45-65	/	170-185	100kg	✓



Tower Work



Construction



Confine Space



Roof Work



HT-336

- 1 full body harness with fall arrest connection point and 1 steel D-ring on the back according to EN361;
- Full body harness with 7 adjustable buckles.

REF.	Size	Legs	Waist	Height	Max Load	CE
		cm	cm	cm		EN 361
HT-336	UNI SIZE	45-65	/	170-185	140kg	✓



Tower Work



Construction



Confine Space



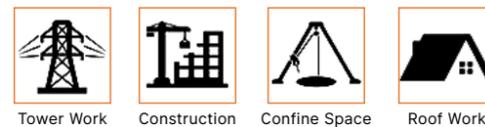
Roof Work



HT-311

- 1 full body harness with fall arrest attachment point and 1 steel D-ring on the back according to EN361;
- Full body harness with 5 adjustable buckles.

REF.	Size	Legs	Waist	Height	Max Load	CE EN361
		cm	cm	cm		
HT-311	UNI SIZE	45-65	/	170-185	140kg	✓



HT-720

Trauma Relief Strap

Specially designed to help relieve the negative effects of suspension trauma, easy to attach to the harness with the help of the textile loop, allows the suspended worker to stand up in his harness to relieve pressure.



HT-722

Tool Lanyard

- Combined with medium and high strength hook and elastic rope, it is light and easy to carry;
- Stretching length: 78-115cm;
- Maximum load: 7kg;



HT-722Y

Tool Lanyard

- Combined with medium and high strength hook and elastic rope, it is light and easy to carry;
- Stretching length: 78-115cm;
- Maximum load: 7kg;

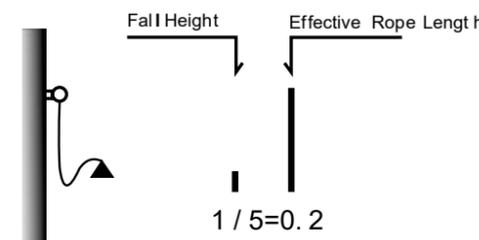
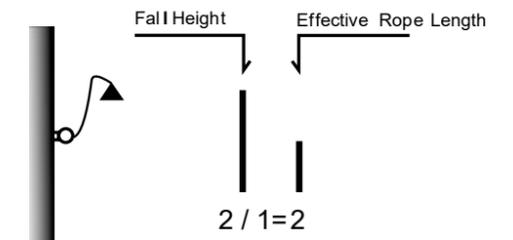
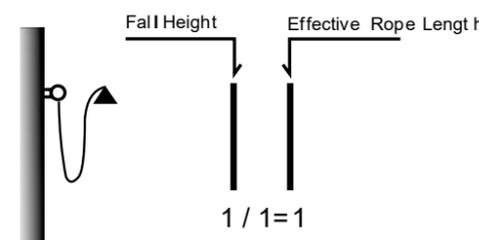


Anti-fall system for high-hanging

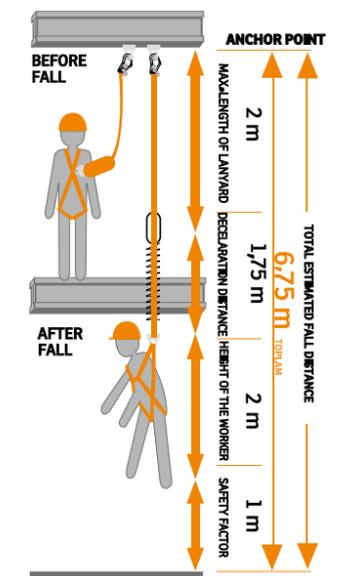
In areas where there is a risk of falling, use a fall prevention system to prevent people from falling. Fall prevention systems are usually required to be used as high as possible to reduce the fall coefficient, thereby reducing the impact force received by the user during a fall. The connection device used in the fall protection system must be equipped with an energy absorber to ensure that the impact force on the user is less than 6kn when a fall occurs.

$$F = mg + mg \sqrt{1 + \frac{2fk}{mg}}$$

- F: First impact (N)
- m: Object weight (kg)
- g: Acceleration of gravity
- f: Actual fall coefficient
- k: Young's modulus of rope X braided part



How to calculate Total Fall Distance



The energy absorber with lanyard is a component of personal fall arrest equipment and complies with EN355. Fall arrest system consisted of energy absorber with lanyard, attached to the full body harness (complied with EN 361) and connected to the structural anchor point (complied with EN 795) can be used as a basic personal protective equipment against falls from a height. Caution: The total length of the energy absorber with lanyard including terminations and connectors shall not exceed 2m.



HT-509YL HT-509L

Energy Absorber With Rope Lanyard

- The buffer bag is made of polyester webbing with a width of 44 mm and tear flat tape;
- Made of high tenacity 11mm static rope to shorten the natural length of the safety rope and prevent entanglement during climbing;
- Equipped with 1 aluminum alloy automatic lock carabiner;
- With 60mm gate open aluminum alloy hook;
- The outer material of the buffer bag is made of strong wear-resistant PE material, visual management, easy to safely check the use of energy absorber;

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	Hook	lock	CE	
								EN 355	EN 362
HT-509YL	Polyamide	11mm	1.8m	32kN	100kg	X05	R05	✓	✓
HT-509L								✓	✓



HT-515YL HT-515L

Energy Absorber With Elastic Lanyard

- The buffer bag is made of polyester webbing with a width of 44 mm and tear flat tape;
- Made of 27mm high-strength and durable polyester elastic webbing to shorten the natural length of the safety rope and prevent entanglement during climbing;
- Equipped with 1 aluminum alloy automatic lock carabiner;
- With 60mm gate open aluminum alloy hook;
- The outer material of the buffer bag is made of strong wear-resistant PE material, visual management, easy to safely check the use of energy absorber;

Ref.	Webbing Material	Webbing Width	Rope Length	Breaking strength	Max load	Big Hook	Middle lock	CE	
								EN 355	EN 362
HT-515YL	Polyester	27mm	1.8m	28kN	100kg	X05	R05	✓	✓
HT-515L								✓	✓



HT-516YL HT-516L

Energy Absorber With Elastic Lanyard

- The buffer bag is made of polyester webbing with a width of 44 mm and tear flat tape;
- Made of 27mm high-strength and durable polyester elastic webbing to shorten the natural length of the safety rope and prevent entanglement during climbing;
- With 1 piece screwlock carabiner;
- With 55mm gate open steel hook;
- The outer material of the buffer bag is made of strong wear-resistant PE material, visual management, easy to safely check the use of energy absorber;

Ref.	Webbing Material	Webbing Width	Rope Length	Breaking strength	Max load	Big Hook	Middle lock	CE	
								EN 355	EN 362
HT-516YL	Polyester	27mm	1.8m	28kN	100kg	H03	R02	✓	✓
HT-516L								✓	✓



HT-507Y HT-507

Energy Absorber With Rope Lanyard

- The buffer bag is made of polyester webbing with a width of 44 mm and tear flat tape;
- Made of high tenacity 11mm static rope to shorten the natural length of the safety rope and prevent entanglement during climbing;
- Equipped with a single steel alloy automatic lock;
- With 55mm gate open steel hook;
- The outer material of the buffer bag is made of strong wear-resistant PE material, visual management, easy to safely check the use of energy absorber;

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	Hook	lock	CE	
								EN 355	EN 362
HT-507Y	Polyamide	11mm	1.8m	23kN	100kg	H03	R02	✓	✓
HT-507								✓	✓



HT-511YL

HT-511L

Energy Absorber With Webbing Lanyard

- The buffer bag is made of polyester webbing with a width of 44 mm and tear flat tape;
- Made of highly resistant 45mm polyester webbing to shorten the natural length of the safety rope and prevent entanglement during climbing;
- With 1 screwlock carabiner;
- With 55mm gate open steel hook;
- The outer material of the buffer bag is made of strong wear-resistant PE material, visual management, easy to check the use of energy absorber safely.

Ref.	Webbing Material	Webbing Width	Rope Length	Breaking strength	Max load	Big Hook	Middle lock	CE	
								EN 355	EN 362
HT-511YL	Polyester	45mm	1.8m	28kN	100kg	H03	R02	✓	✓
HT-511L								✓	✓



Work Positioning Lanyard

- Aluminum rope grab self-locking regulator for progressive movement;
- Made of 12mm high wear-resistant static rope;
- With 1 screwlock carabiner;
- With 1 17 mm gate open steel snap hook;
- The rope is equipped with a wear-resistant sheath, which can protect the rope from abrasion and avoid damage from sharp edges;

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	Hook	lock	CE	
								EN 358	EN 362
HT-612	Polyamide	12mm	1.8m	25kN	100kg	H14	R02	✓	✓



R02

R03

+



HT-607

HT-607Y

+



H14

H03

X05

Work Position Single/ Double Lanyard

- Single and double (Y-type) connection lanyards, ranging in length from 1m to 1.5m;
 - Made of 11mm high wear-resistant static rope;
 - You can choose the connector you need, like:
 - Equipped with a steel carabiner or aluminum carabiner;
 - Equipped with steel or aluminum hook;
- For any other specific length, contact us.

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	CE	
						EN 354	EN 362
HT-607	Polyamide	11mm	1m-1.5m	32kN	100kg	✓	✓
HT-607Y						✓	✓

NEW



Work Positioning Lanyard

- Steel rope self-locking adjuster for progressive movement;
- Made of 12mm high abrasion resistant static rope;
- With a single stainless steel wire shackle lock;
- Fitted with a single stainless steel safety hook;
- Rope with abrasion-resistant sheath, which protects the rope from abrasion and sharp edges;

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	Hook	lock
HT-625	Polyamide	12mm	1.5m	25kN	100kg	H14	R02



Work Positioning Lanyard

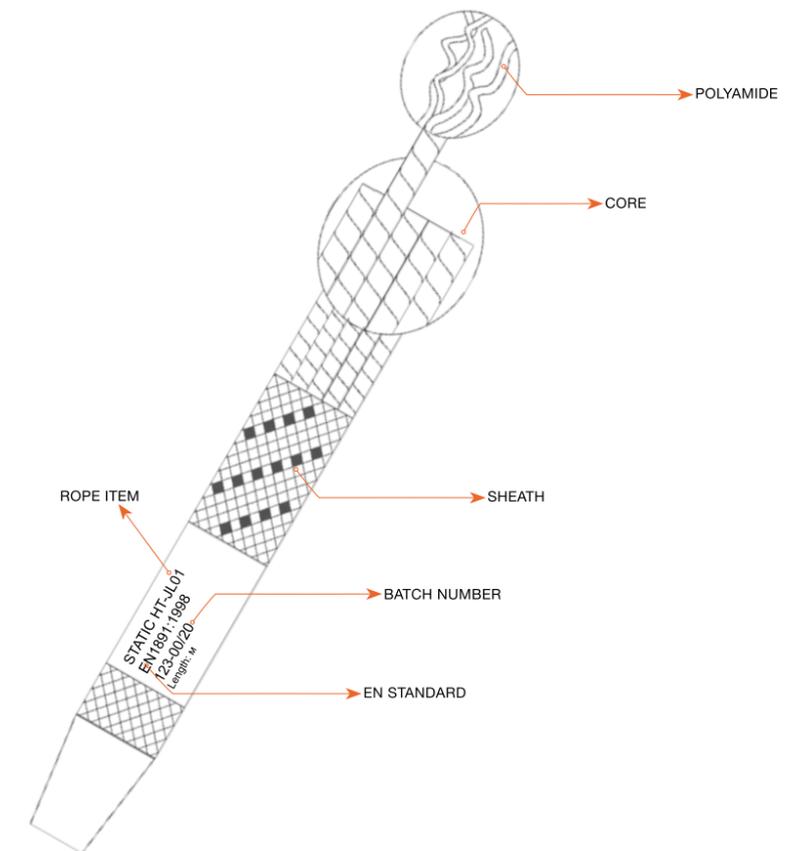
- Steel rope self-locking adjuster for progressive movement;
- Made of 12mm high abrasion resistant static rope;
- With a single stainless steel wire shackle lock;
- Fitted with a single stainless steel safety hook;
- Rope with abrasion-resistant sheath, which protects the rope from abrasion and sharp edges;

Ref.	Rope Material	Rope Dia	Rope Length	Breaking strength	Max load	Carabiner	Hook
HT-62010	Polyamide	12mm	10m	25kN	100kg	R02	H14
HT-62020			20m				
HT-62030			30m				



HT-616 Rope grab

- Rope grab use lanyard connect with steel middle hook.
- It's easy for user to connect with full body harness.



Static Rope

Static ropes in most cases refer to semi-static ropes and low-stretch core ropes in accordance with EN 1891, designed for applications requiring minimum elongation and high strength. Featuring a kernmantel construction, providing excellent abrasion resistance, load-bearing capacity, and safety.

Type A static ropes are designed for professional applications such as rope rescue, industrial work-at-height, caving, and firefighting. With a diameter typically ranging from 10-13mm and breaking strength of $\geq 22\text{kN}$, they offer superior abrasion resistance and high load capacity, capable of withstanding significant forces.

Type B static ropes are designed for lower-load applications such as secondary support, technical training, and light rope work. With a diameter typically ranging from 8-11mm, they are lightweight and easy to handle but have a lower strength compared to Type A ropes, with a minimum breaking strength of $\geq 18\text{kN}$.

Type	Number of drop (ff 1)	Impact force (ff 0.3)	Static extension (50-150kg)	Static extension	8 bytes point static tension (within 3 minutes)	Sheath slippage	Standard
A	$\geq 5(100\text{kg})$	$\leq 6\text{kN}$	$\leq 5\%$	$\geq 22\text{kN}$	$\geq 15\text{kN}$	A and $\phi \leq 12\text{mm}$, $V \leq 20\text{mm} + 10(\phi - 9\text{mm})$, If $12.1 < \phi < 16\text{mm}$, then $< 20 + 5(\phi - 12\text{mm})$	EN892
B	$\geq 5(80\text{kg})$	$\leq 6\text{kN}$	$\leq 5\%$	$\geq 18\text{kN}$	$\geq 12\text{kN}$	A and $\phi \leq 12\text{mm}$ then $< 20 + 10(\phi - 9\text{mm})$, If $12.1 < \phi < 16\text{mm}$, then $< 20 + 5(\phi - 12\text{mm})$	



10.5mm



11mm



12mm

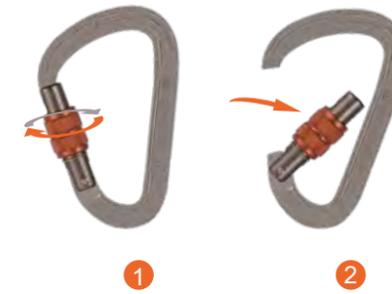
Low Stretch Kernmantel Ropes

Low stretch kernmantel ropes are designed for rope access. The small diameter guarantees very good flexibility and performance in terms of weight. It has a lower stretch under tension, improving the efficiency of the rope at the beginning of the ascent. The rope is available in three colors and three lengths.

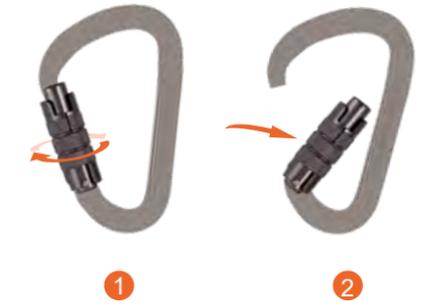
- Small diameter guarantees very good flexibility and performance in terms of weight
 - Low stretch during loading, which improves the efficiency at the beginning of the rope ascent
- Long-term stable performance:
- Construction with nylon core and nylon sheath, with specific braid;
 - Can ensure under any conditions (water, dust, mud...) The time and flexibility to maintain excellent handling and optimal performance of the equipment;

Ref.	Color	Material	Diameter	Weight per meter	Breaking strength	Figure 8 knot strength	Number of falls	Sheath slippage	Static elongation	Length	CE
HT-Z010		Polyester/Nylon	10.5mm	72g/m	31kN	>15kN	>5	0.6%	2.5%	200m	EN 1891 Type A
										600m	
HT-Z011		Polyester/Nylon	11mm	81g/m	35kN	>15kN	>5	0.8%	2.5%	200m	
										600m	
HT-Z012		Polyester/Nylon	12mm	92.8g/m	37kN	>15kN	>5	0.9%	2.5%	600m	
										600m	

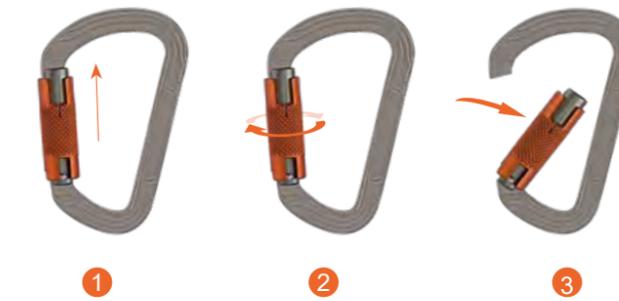
Screwlock system



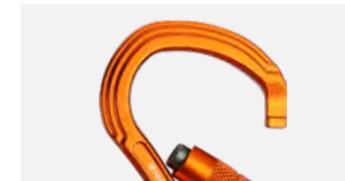
Twistlock system



Triactlock system



TECHNOLOGY



EASY TO OPERATE

Keylock is simple and flexible to use. The locking system solves the design problem of the traditional main lock by completely avoiding the hook with the rope or ribbon when the main lock is attached or removed. In addition, it is completely cylindrical with no sharp edges, which means that the rope or ribbon will not be cut.



HOT FORGING

The aluminum alloy is heated to a plastic state for forging, in other words for structural shaping, which allows the metal to move better, moving it to the desired or unwanted position. Compared to cold forging, the master lock after hot forging is lighter, stronger and more reliable.



UNIQUE PRODUCTION NUMBER

For better traceability and inspection records, individual SignRock metal pieces are marked with a series unique number.



HT-R05T

Screwlock 19mm
 Aluminium 25kN
 80g EN362



HT-R05

Twistlock 19mm
 Aluminium 25kN
 83.6g EN362



HT-R19

Triactlock 19mm
 Aluminium 30kN
 92.2g EN362



HT-R02

Screwlock 17mm
 Steel 25kN
 166g EN362



HT-R03

Twistlock 20mm
 Steel 23kN
 158g EN362



HT-R18

Twistlock 22mm
 Steel 23kN
 204.4g EN362



HT-R17

Screwlock 26mm
 Aluminium 26kN
 94.2g EN362



HT-R17T

Twistlock 26mm
 Aluminium 26kN
 100g EN362



HT-R17S

Triactlock 26mm
 Aluminium 26kN
 102g EN362



HT-H03

Steel 55mm
 482.7g 25kN
 EN362



HT-H14

Steel 18mm
 190g 25kN
 EN362



LeiTing W02

Retractable fall arrester equipped with a UHMWPE webbing and energy absorber. The internal braking system activates instantly in the event of sudden acceleration, minimizing fall distance. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents rope twisting and enhances freedom of movement. Supplied with a self-locking connector featuring a 22 mm gate opening and integrated swivel.



LeiTing W02L

Retractable fall arrester equipped with a UHMWPE webbing and energy absorber. The internal braking system activates instantly in the event of sudden acceleration, minimizing fall distance. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents rope twisting and enhances freedom of movement. Supplied with a self-locking connector featuring a 61 mm gate opening.



LeiTing W02LR

Retractable fall arrester equipped with a UHMWPE webbing and energy absorber. The internal braking system activates instantly in the event of sudden acceleration, minimizing fall distance. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents rope twisting and enhances freedom of movement. Supplied with a self-locking connector featuring a 55 mm gate opening.



LeiTing W45L

Retractable fall arrester equipped with a UHMWPE lifeline and energy absorber. The internal braking system activates instantly in the event of sudden acceleration, minimizing fall distance. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents rope twisting and enhances freedom of movement. Supplied with a self-locking connector featuring a 17 mm gate opening.



LeiTing W02Y

Compact and lightweight twin retractable fall arrester equipped with two UHMWPE webbing lifelines and energy absorber. The built-in connector allows direct attachment to the harness. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents webbing twisting and ensures smooth movement. Supplied with two self-locking connectors featuring a 22 mm gate opening.



LeiTing W02YL

Compact and lightweight twin retractable fall arrester equipped with two UHMWPE webbing lifelines and energy absorber. The built-in connector allows direct attachment to the harness. The reinforced PA housing offers excellent impact resistance and long-term durability. The top swivel connector prevents webbing twisting and ensures smooth movement. Supplied with two self-locking connectors featuring a 61 mm gate opening.

R30



Allows quick and easy connection of two fall arrest devices to the dorsal attachment point of a harness.

R03F



Allows quick and easy connection of two fall arrest devices to the dorsal attachment point of a harness.



LeiTing W03/W06/W12

This fall protection device features a webbing can activates instantly in the event of a fall, minimizing fall distance. The high-strength UHMWPE webbing delivers excellent shock absorption while reducing overall weight and minimizing impact forces transmitted to the user. Its reinforced PA housing offers outstanding impact resistance and durability. The top-mounted swivel connector ensures smooth rotation and greater freedom of movement.



Shield C03/C06/C10

This retractable fall arrester is equipped with a high-strength 4.8 mm wire rope that provides excellent tensile strength to withstand extreme forces generated during a fall. Its reinforced PA housing ensures outstanding impact resistance and long-term durability. The top-mounted swivel connector ensures smooth rotation and greater freedom of movement. This device is highly suitable for demanding work environments involving sharp edges, chemicals, moisture, or rough surfaces. Energy-absorber version available.



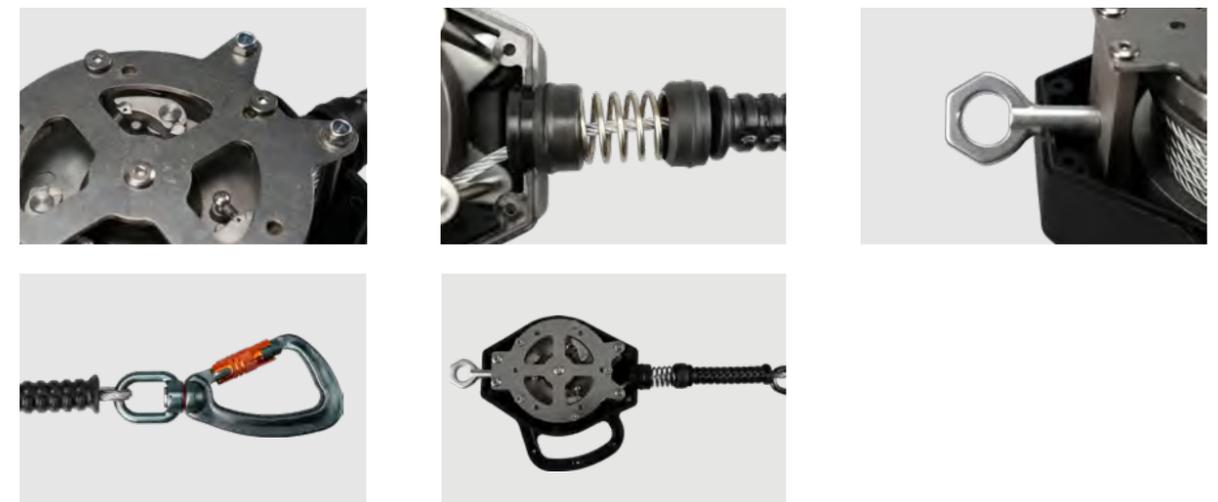
Shield C15/C20

This retractable fall arrester is equipped with a high-strength 4.8 mm wire rope that provides excellent tensile strength to withstand extreme forces generated during a fall. Its reinforced PA housing ensures outstanding impact resistance and long-term durability. The top-mounted swivel connector ensures smooth rotation and greater freedom of movement. This device is highly suitable for demanding work environments involving sharp edges, chemicals, moisture, or rough surfaces. Energy-absorber version available.



Shield C25/C30

This retractable fall arrester is equipped with a high-strength 4.8 mm wire rope that provides excellent tensile strength to withstand extreme forces generated during a fall. Its reinforced PA housing ensures outstanding impact resistance and long-term durability. The top-mounted swivel connector ensures smooth rotation and greater freedom of movement. This device is highly suitable for demanding work environments involving sharp edges, chemicals, moisture, or rough surfaces. Energy-absorber version available.





Shield Plus JS15

Retractable fall arrester with an integrated winch, designed for use with rescue tripods to easily lift a trapped person via the built-in winch system. Equipped with a 4.8mm hot-dip galvanized steel wire rope offering excellent tensile strength. The reinforced PA housing provides superior impact resistance and long-term durability. The anchorage end features an integrated handle for easy carrying.



Shield Plus JS20

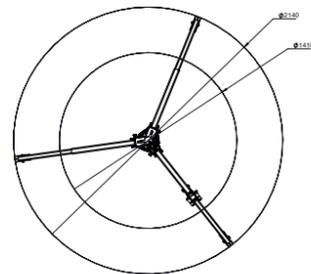
Retractable fall arrester with an integrated winch, designed for use with rescue tripods to easily lift a trapped person via the built-in winch system. Equipped with a 4.8mm hot-dip galvanized steel wire rope offering excellent tensile strength. The reinforced PA housing provides superior impact resistance and long-term durability. The anchorage end features an integrated handle for easy carrying.



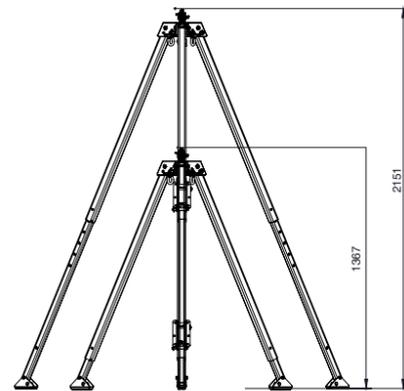
Model	Material	Length	Width of webbing	Min/Max	Temp	Arrest distance	Impact force	Static strength	KG	CE
W02	Nylon Steel Aluminum	1.8m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	1324.4g	/
W02L		1.8m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	1601.8g	/
W02LR		1.8m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	1657.8g	/
W45L	Nylon Steel Aluminum Polyester	2.5m	45mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	1103.4g	/
W02Y	Nylon Steel Aluminum	1.8m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	2491.2g	/
W02YL		1.8m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	3046g	/
W03		3m	20mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	2320.6g	/
W06		6m	25mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	3254.6g	/
W12		12m	25mm	50-140kg	-35°C-45°C	<1.4m	<6kN	15kN for 3mins	4499g	/
R30	Aluminum Steel	/	/	/	/	/	/	22kN	104.8g	/
R03F	Steel	/	/	/	/	/	/	22kN	176.8g	EN 362

Model	Material	Length	steel rope Ømm	Min/Max	Temp	Arrest distance	Impact force	Static strength	KG	CE
C03	Nylon Steel Aluminum	3m	4.8mm	50-140kg	-35°C-45°C	<1.4m	<6kN	12kN for 3mins	2467.2g	EN 360
C06		6m					<6kN		4204.6g	
C10		10m					<6kN		5133.2g	
C15		15m					<6kN		7922g	
C20		20m					<6kN		8422g	/
C25		25m					<6kN		10835.2g	
C30		30m					<6kN		11335.2g	

Model	Material	Length	steel rope Ømm	Min/Max	Temp	Arrest distance	Impact force	Static strength	KG
JS15	Nylon Steel Aluminum	15m	4.8mm	50-140kg	-35°C-45°C	<1.4m	<6kN	12kN for 3mins	/
JS20		20m							



Footprint diameter (leg spread): 1,410-2,140 mm



Operational height range: 1,367-2,151 mm

JinWu

This compact and durable rescue tripod is designed for confined-space entry, lifting, and rescue operations. It features two-stage telescopic legs with independent adjustment and bolt-lock systems for rapid, stable deployment on uneven terrain. The corrosion-resistant aluminum frame ensures high strength and long-term durability. Top pulley reduces friction and improve lifting efficiency, with compatibility for pulley systems to create mechanical advantage. The integrated winch system allows controlled raising and lowering of personnel or equipment, enhancing rescue capability. Dual-action steel terminal locks provide secure attachment, while foldable non-slip feet and leg stabilizers ensure safe and reliable operation. Supplied with a nylon carry bag for easy transport and rapid deployment. Two configurations are available: with winch or without winch.



Rescue Tripod

- The rescue tripod consists of main parts, sling, capstan, and protection chains.
- Be made of durable super light aluminum alloy, adjustable legs, safety factor more than 10.
- Automatic lock capstan for rising and falling, to protects sling work.
- The cable of sling is made of stainless steel, good tenacity and rust proof.
- Convenient combination is suitable to fix at the well and pit mouth Out of limit of the ground unevenness.

Picture	Model	Material	steel rope		Max	Height	MAX LOAD	Ø	KG	CE
			Length	Ø						
	906	Aluminum Steel Nylon	/	/	1	1.15m-2.15m	300kg	1.8m	13kg	EN 795 Type B
	90620	Aluminum Steel Nylon	20m	4.8mm	1	1.15m-2.15m	300kg	1.8m	23.6kg	EN 795 Type B
	90630		30m						25.2kg	
	902	Aluminum Steel	20m	4.8mm	1	1.15m-2.15m	500kg	1.8m	22.5kg	/
			30m						23.5kg	



LuBan I MD01

The Fixed Beam Anchor quickly and easily attaches to horizontal I-beams, providing a secure anchorage point for fall protection systems. The central alloy steel D-ring ensures proper alignment and even load distribution, making it ideal for industrial maintenance, steel erection, and construction work at height.



LuBan II MD02

The Sliding Beam Anchor designed to travel smoothly along horizontal I-beams for flexible fall protection. Its roller system allows effortless movement with the user, reducing drag and fatigue. A central alloy steel D-ring ensures proper alignment and even load distribution, making it ideal for industrial maintenance, steel erection, and construction applications requiring mobile overhead anchorage.



Door & Window Ancho MD05

The Door & Window Anchor Beam can be quickly installed on vertical door or window frames, providing a secure fall arrest point for one or two users. Its telescopic design adjusts to widths of 35-124cm to fit various openings. Built from high-strength aluminum alloy, it is lightweight, durable, and corrosion-resistant. Non-slip rubber pads at both ends protect surfaces and enhance grip.



Parapet Anchor MD06

The Parapet Clamp Anchor quickly establishes a secure connection point on rooftop parapet walls, making it an ideal choice for work at height along building edges. Its adjustable jaws fit parapet thicknesses from 6-36cm and are compatible with guardrails at least 22 cm high, ensuring broad adaptability without damaging the structure. Equipped with non-slip rubber or anti-scratch pads, it effectively protects building surfaces while enhancing safety and stability during installation.



Webbing Temporary Lifeline MD08

Webbing temporary lifeline, combining strength, ease of use, and compact storage. It features a 35 mm polyester webbing with a ratchet tensioner for quick and secure installation between two anchor points. Both ends are equipped with twist-lock steel carabiners (model: R18L), with an adjustable length ranging from 5 to 20 meters.



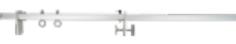
Anchoring Strap MD10

45mm high-strength polyester webbing anchor with two steel D-rings, allow quick and secure attachment to anchor points, carabiners, or lifelines. Classified for general use in basket, end-to-end, and choker (girth hitch) configurations, it provides high breaking strength to withstand heavy loads within the system.



Adjustable Anchoring Strap MD10L

Versatile anchoring strap with adjustable length for precise installation. Classified for general use in basket, end-to-end, and choker (girth hitch) configurations. The adjustment system allows quick installation and removal, improving the efficiency of rigging or fall-arrest system deployment.

Picture	Name	Model	Material	Girders width	Max	MAX LOAD	KG	CE
	LuBan I	MD01	Aluminum Steel	76-300mm	1	140kg	2.3kg	EN 795 Type B
	LuBan II	MD02		76-300mm	1	140kg	3.3kg	EN 795 Type B
	Door & Window Anchor	MD05	Aluminum Steel	35-124cm	2	140kg	2.9kg	EN 795 Type B CEN/TS 16415
	Parapet Anchor	MD06	Aluminum Steel	6-36cm	1	140kg	5.7kg	/

Picture	Name	Model	Color	Material	Width	Strength	CE	
	Webbing Temporary Lifeline	MD08	■	Polyester Aluminum Steel	5m-20m	35mm	22kN	EN 795
	Anchoring Strap	MD10	■	Polyester Steel	120cm	45mm	22kN	EN 795
	Adjustable Anchoring Strap	MD10L	■	Polyester Steel	80-150cm	45mm	22kN	/

ROPE GRAB



Rope Grab
HT-G03

Aluminum 22kN
170g 10-12mm



Rope Grab
HT-G02

Aluminum 22kN
220g 10-12mm



Rope Grab
HT-G07

SUS304 10-12mm
312g



Wire Grab
HT-G06

SUS304 8mm & 10mm
493g



Wire Grab
HT-G08

Steel 11mm & 12mm
493g



Rope Grab
HT-G04

Steel 10-12mm
312g



**Double Pulley
HT-P03**

- Aluminum 30kN
- 250g <15mm
- EN12278



**Double Pulley
HT-P04**

- Aluminum 30kN
- 412g <15mm
- EN12278



**8 Figure
HT-K02**

- Aluminum 40kN
- 252g 8-13mm
- EN15151-2:2013



**Bag
HT-B02**

- Easy to open and close drawstring bag
- Suitable for use with seat belts and small items

Size	Weight	Color
38*28cm	40g	Black



**Bag 2L
HT-B01**

- The cloth bag uses a Velcro device, which is convenient to open and close the bag
- Suitable for use with seat belts and small items

Material	Size	Weight	Color
500D Oxford cloth	15x8x21cm	95g	Black

Multifunctional Helmet



HT-18601

- This helmet is a protective helmet for high-altitude work, used for high-altitude work, underground work and rescue, the helmet's ventilation is suitable for heavy physical work. It is mainly used to protect the wearer from the direct impact of falling objects.
 - With 17 ventilation holes, you can provide excellent air permeability and comfort to the head;
 - The inner lining is made of EPP (foamed polypropylene) and EPS (foamed polystyrene) material;
 - Adjustable jaw strap, allowing self-adjustment of strength, ideal for working high and on the ground;
 - This multifunctional helmet has the following features: (1) side fixation system goggles (2) Headlights with elastic headwear (3) hearing protection;
 - The size is suitable for people with head circumference of 54-60 cm;
 - The lower jaw strap of the helmet can withstand at least 50kg of tension, which is suitable for situations where the risk of helmet falling is higher than the risk of suffocation
 - Fully adjustable headband, adjust the length of the lower jaw band through the adjustment buckle on both sides and rear
 - Four headlight fasteners can fit any headlight on the market
 - The helmet can be used at temperatures between -10 °C and 30 °C
 - The universal 30mm attachment slot is compatible with most face masks and hearing protection on the market
 - With reflective stickers
- Meet ventilation requirements in accordance with EN12492 to ensure better ventilation for staff and staff in a warm environment.



HT-18603



HT-18604



Ref.	Size	Weight	Color	CE
HT-18601			White	EN12492
HT-18603	54-60cm	435g	Orange	
HT-18604			Blue	



Visor HT-18710

- Eye mask protects eyes from splashing;
 - This eye mask is easy to install; Use with helmet;
 - Transparent color with anti-wear and anti-fog treatment;
- Tip: This eye mask has no anti-fog function.
- Strong eye mask construction is made of 2.25mm thick and 100mm high material
 - The surface of the transparent lens adopts an anti-scratch film to ensure excellent optical effect
 - There are two stable fixed positions

