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ASAT®
EXPERT IN PROTECTION

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ASAT®
EXPERT IN PROTECTION

Always Safe, Always Trusted.



ASAT Product & Service

- PPE for fall protection, rope access and rescue device.
- Battery-powered power ascender.
- Fall protection system.
- Complete solutions for working at height.
- Certification training for working at height and rope access.

Research & Development

Based on almost twenty years of field work experiences and guided by scientific concepts, the ASAT R&D team comprehensively considers the physical characteristics of personnel in different areas and work characteristics in different fields to ensure the advancement and practicality of design concepts of the products.



Raw material control

ASAT raw materials are subject to a rigorous selection process, by which the raw materials with superiority of advanced technology are selected worldwide to ensure the quality.

Production procedure control

ASAT factory implements ISO9001, ISO14001, ISO45001 quality management system, to control every detail and ensure preciseness, scientificity and reliability.

Product test

ASAT establishes a comprehensive product test system, our PPE products are complied with EU Regulation 2016/425. We cooperate with the certification authority APAVE (France) to perform related third-party certification and inspection on the ASAT factory and products.









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ACE Power Ascenders

ASAT independently designed and developed battery-powered power ascenders. Traditional rope access long pitch ascending and hauling will lead to rapid loss of physical endurance, cramps, reduced working ability and efficiency. The power ascender can help you to reduce the difficulty of work, save your body energy. ASAT power ascenders are compatible with standard EN 1891 type A rope for ascending, descending, hauling or even moving on a tensioned line.

ACE series Power Ascenders have passed third-party CE testing and can be applied for many industries:
· Renewable energy
· Energy and network
· Inspection and maintenance
· Rescue
· Cleaning and maintenance of high buildings

Note: End users must receive ASAT training or same qualified level training, and have basic rope access skills.



ACE-24



ACE-22

ACE MINI Power Ascender



Lightweight solution

ACE Mini Power Ascender
Weight: -50%, Size: -58%, Still Powerful!

ACE-22

ACE Mini Power Ascender, gross weight of 10.5kg,
Lightweight, compact and can be easily stored in a backpack.
Maximum working load of 180kg, stepless speed change.
150m remote control.
Swappable battery.
Compatible with standard EN 1891 type A rope for ascending, descending, hauling or even moving on a tensioned rope.
With remote control and wireless telecommunications.
Approved under the machinery directive 2006/42/EC.
Size: 27cm x 16cm x 24cm.



Product performance

ACE-22

Rope	Semi-static rope Φ11mm EN1891A
Rated working load	140kg
Working load limit	180kg
Operation mode	Ascending and descending vertically/traversing horizontally/traversing inclinedly
Ascending speed	0~30m/min (Stepless speed)
Descending speed	0~40m/min (Stepless speed)
Swappable battery	√
Weight	10.5kg (Incl. battery)
Size	26cm×16cm×24cm
Running distance (with standard battery)	400m (120kg) travel compacity of ascending and descending alternatively, 160m (120kg) travel compacity of ascending continuously
Remote control range	0~150m (open space)
Charging time	<60min
Ingress Protection	IP54
Operating temperature range	-20°C~+60°C
CE certification	√


HM1401


D-10503


HAL-01 & HAR-01


RD2


HRP-0105


RA2/LE-08


HA-0201


LFA-15


DS-01


DSA-01





ACE Power Ascender

ACE-24

ACE Power Ascender for heavy working load and long running distance. It can help you to reduce the difficulty of work, make the working efforts more efficient and labor-saving.
Meet the needs of most environments for ascent, descent, in any direction, safe and reliable.
Compatible with standard EN 1891 type A rope, allows easy rope installation.
Approved under the machinery directive 2006/42/EC.

Applications:

- Renewable energy
- Energy and network
- Inspection and maintenance
- Rescue
- Cleaning and maintenance of high buildings





Product performance

ACE-24

Rope	Semi-static rope Φ11mm EN1891A
Rated working load	180kg
Working load limit	260kg
Ascending speed	0~30m/min (Stepless speed)
Descending speed	0~40m/min (Stepless speed)
Manually descending speed	0~40m/min (Stepless speed)
Running distance (with standard battery)	700m (150kg) travel compacity of ascending and descending alternatively, 300m (150kg) travel compacity of ascending continuously
Charging time	<60min
Operating temperature range	-30°C ~+60°C
Overheat protection	√
Weight	18kg (Incl. battery)
Size	31cm×23cm×35cm
Fall protection	0.5m (concrete ground)
Remote control range	0~150m (open space)
Manual descending	√
Swappable battery	√
Ingress Protection	IP56
CE certification	√


D-10503


LYD-3010


PR-6010


LE-08


RD2

AR-TS


DS-01


RA2/LE-08


HA-0201


DSA-01



RD2 Descender



It is a self- braking descender with integrated high efficiency pulley. Designed for rescue, rope access work and experienced users.

For experienced workers used as a personal descender, the self-braking mechanism allows fast and precise positioning on rope. Easy and smooth ascending, thanks to one-way rotation pulley.

When used on the anchor, fast shift between lowering and hauling. The integrated high efficiency pulley provides up to 85% efficiency on 1:1 hauling.

The becket hole allows setting up different mechanical advantage system.

The safety-gate on side plate helps the user to install/remove the rope without removing the RD2 from the harness and anchor.

The ergonomic handle allows comfortable controlling and using on Twin Tension Rope Systems. The hole in the handle for distance control cord connection.

The unique frame structure allows RD2 to be used as a single one-way rotation pulley for change of direction on hauling. And a block pulley to add friction on lowering.

No anti-panic function, for a better and smooth lowering on inclined surface and light weight loading. Hardened steel wear groove improves durability.

Two colors available: red and black.

Specifications:

WLL: 200kg
Rescue Load: 250kg (≤0.5m/s)
Compatible with 10.5mm~11.0mm EN 1891 A rope
Net weight: 830g
Certifications: CE EN 12841:2024, XF 494-2023




ASAT
ASAT



Mobile Fall Arrester



RA2



RA2/LE-08

RA2

- Rope compatibility: EN1891 type A 10mm-12mm
- Maximum rated load: 150kg (with ASAT LE-08)
- Certifications: EN 12841: 2024 A, XF 494-2023
- Material: stainless steel, aluminum alloy
- Working temperature: -30℃ to +50℃
- Weight (fall arrester):485g
- Weight (with an energy absorber lanyard and a carabiner):765g

Features:

1. The fall arrester, triggered by moving speed, follow the user smoothly along the rope. The locking mechanism is sensitive and reliable.
2. The fall arrester is equipped with a reliable moving side plate, can be opened with two-action. It makes the device drop-resistant when install and remove the rope.

LE-08



Energy absorber for the mobile fall arrester to limit the impact force to the user in case of falling.
For rescue use (2 persons 250kg max).
Length: 40cm
CE EN355:2002 GB/T 24538-2009





Evacuation & Rescue Solutions

ASAT auto descent/rescue devices are ideally suited for rescue and evacuation from wind turbines, tower cranes, buildings. Highly efficient self-rescue thanks to bidirectional system. When a person landed on the ground, another person at height can connect his harness with the carabiner on the other end of the rope without waiting.

Rapid rescue intervention, the users can easily lift up， locking and lowering the victim with a controlled manner.

Descender device for rescue



AEM-010

Descender device for rescue



AEM-060

Descender device for rescue

AEM-010

ASAT descender device for rescue AEM-010 can be used in the descent from heights for one person or two persons quickly to the ground at a constant speed of 0.85m/s each time.

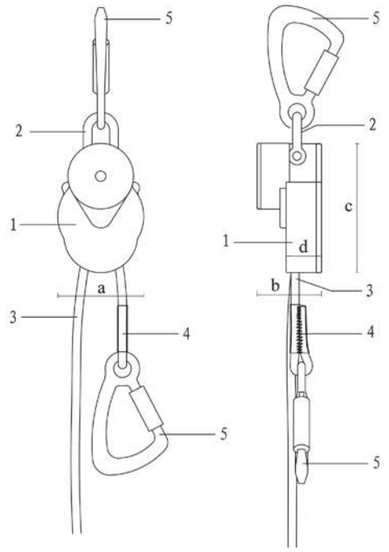
Maximum descent load: 250kg
Maximum descent distance: 500m for single person



Specifications

Casing: Aviation Aluminum
Descending speed: 1m/s
Static rope of type A
Rope diameter: 9.6mm
Rope breaking strength: 25kN
Maximum descent distance: 500m for single person
Maximum descent load: 250kg for double persons
Weight of device: 2.1kg
(Required strength of anchor point is no less than 13kN)

Note:
Type 1*: Automatic descender device
Class A**: Descent energy W more than 7.5×10^6 J



a:98mm b:73.5mm c:147mm d:40.5mm

Descender device for rescue

AEM-060

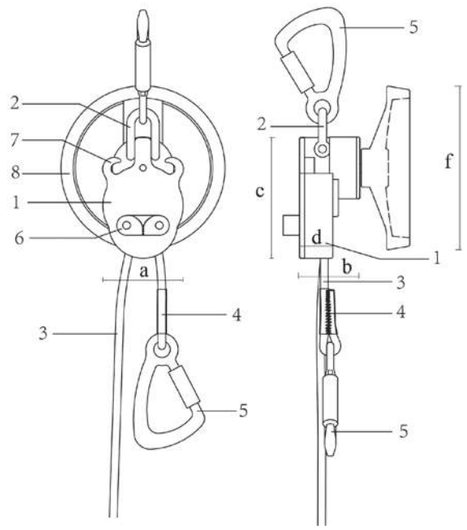


ASAT Descender device for rescue AEM-060 can beused both in quick descent at heights and rescue.
In emergency, one or two personscan quicklydescend from the working position at height by the device.
For rescue, ASAT rescue descent device AEM-060 can be used to lift up the casualty secured on a fall arrester afterfalling at the lifting speed of about 0.5m/min and then to lower the casualty down to the ground after releasing from the fall arrester.
During the process of descent and rescue, thepersonnel can control the speed of descentby controlling the rope speed on the ascending side.

Specifications

Model: AEM-060
With rescue wheel
EN341:2011, Type 1*, Class A**, 150kg
EN1496:2017, Class A***, 150kg
GB/T 38230-2019, TypeI, Class A, 150kg

Casing: Aviation Aluminum
Descending Speed: 1m/s
Static rope of type A Rope
Diameter: 9.6mm
Rope breaking strength: 25kN
Maximum descent distance: 500m for single person
Maximum descent load: 250kg for double persons
Rated load: 150kg
Max rated load: 250kg
Weight of device: 2.6kg
(Required strength of anchor point is no less than 13kN)



a:98mm b:74mm c:147mm d:41mm f:200mm







Harnesses

The harness is the only equipment allowable for supporting your body.

Rope access harnesses



D-10503

Work positioning harnesses



D-10802

Work positioning harnesses



D-10202C Pro



D-10202



D-10201

SEAT



DS-01



DSA-01

Note: For more harness models, please check following contents.

NOVO-Rope access harness

D-10503

Comfortable rope access, suspension work, work positioning and fall arrest harness





- Integrated chest ascender for fast rope ascent.
- Five attachment points, fulfills suspension work, work positioning and fall arrest.
- Fast close buckles on shoulder strap, waist belt and two leg loops for greater efficiency.
- The shoulder straps use reflective webbing to improve visibility in dark environments and improve safety.
- The shoulder straps equipped with releasable lanyard connector parking holders, allows the lanyard absorber to be deployed.
- Adjustable rear webbing, when falling on the dorsal attachment point, a shorter adjustment allows comfortable suspension and more time to wait rescue.
- Full adjustable structure, suitable for different users.
- V-Pad shoulder structure, reduce neck rub, steadier and more comfortable.
- Semi-rigid waist belt and leg loop with breathable liner, uniform weight distribution, comfortable suspension.
- 4 gear loops, WLL 20kg for each, waist belt is compatible with accessory bag.

Certifications: EN361:2002. EN358:2018. EN813:2024. GB6095-2021. XF494-2023



NOVO-Wind power harness

D-10802

Comfortable suspension work, work positioning and fall arrest harness for the wind power industry

- Five attachment points, fulfills suspension work, work positioning and fall arrest.
- Designed for wind power industry, the ventral attachment point can be used in cooperation with the electric climbing aid and climbing auto device.
- Fast close buckles on shoulder strap, waist belt and two leg loops for greater efficiency.
- The wear protector on the waist belt improve support, reduce wear and extend the service life of harness, the wear protector is replaceable.
- Full adjustable structure, suitable for different users.
- V-Pad shoulder structure, reduce neck rub, steadier and more comfortable.
- Semi-rigid waist belt and leg loop with breathable liner, uniform weight distribution, comfortable suspension.
- 2 gear loops, WLL 20kg for each.

Certifications: EN361:2002. EN358:2018. EN813:2024. GB6095-2021









MASTER-Wind power harness

D-10202C Pro

Comfortable work positioning and fall arrest harness for the wind power industry

- Five attachment points, fulfills work positioning and fall arrest.
- Ideal for work positioning on ladders and towers.
- Designed for wind power industry, the ventral attachment point can be used in cooperation with the electric climbing aid and climbing auto device.
- Fast close buckles on shoulder strap, waist belt and two leg loops for greater efficiency.
- The shoulder straps equipped with lanyard connector parking holders.
- The wear protector on the waist belt improve support, reduce wear and extend the service life of harness, the wear protector is replaceable.
- Full adjustable structure, suitable for different users.
- V-Pad shoulder structure, reduce neck rub, steadier and more comfortable.
- Semi-rigid waist belt and leg loop with breathable liner, uniform weight distribution, comfortable suspension.
- 2 gear loops, WLL 20kg for each.

Certifications: CE EN361: 2002, CE EN358: 2018, GB6095-2021







D-10202

Full-body safety harness, five-point design, meeting the requirements for use in fall arrest and work positioning.
The chest and dorsal attachment points are sed for connection to the fall arrest system. The bilateral attachment points are used for connection to the work positioning system. The ventral attachment point can be used in cooperation with the electric climbing aid and climbing-free device.
Wide and semi-rigid waist belt provides the user effective support.
Waist wear protector provides the support to the waist of the user and reduces the wear of the waist belt effectively during the user leans against the wall of wind towers. adopting the CLICK buckles, which are easy and quick for buckling and adjustment. The waist belt is fitted with gear loops used for carrying tools up to 20 kg.
CE EN361: 2002, CE EN358: 2018, GB6095-2021



D-10201

Full-body safety harness, five-point design, meeting the requirements for use in fall arrest and work positioning.
The chest and dorsal attachment points is used for connection to the fall arrest system.
The bilateral attachment points are used for connection to the work positioning system.
Wide and semi-rigid waistbelt enables the user effective support.
Steel quick-release buckles adopted can be easily adjusted.
Two gear loops, waist belt is compatible with accessory bag.
CE EN361: 2002, CE EN358: 2018, GB6095-2021



D-10801

Full-body safety harness, five-point design, meeting the requirements for use in fall arrest, work positioning and suspension.
The chest and dorsal attachment points are used for connection to the fall arrest system.
The bilateral attachment points are used for connection to the work positioning system.
Wide and semi-rigid waistbelt enables the user effective support.
The shoulder straps, waist belt and leg loops, all adopting CLICK buckles, which are easy and quick for buckling and adjustment.
EN361:2002. EN358:2018. EN813:2024. GB 6095-2021



DS-01

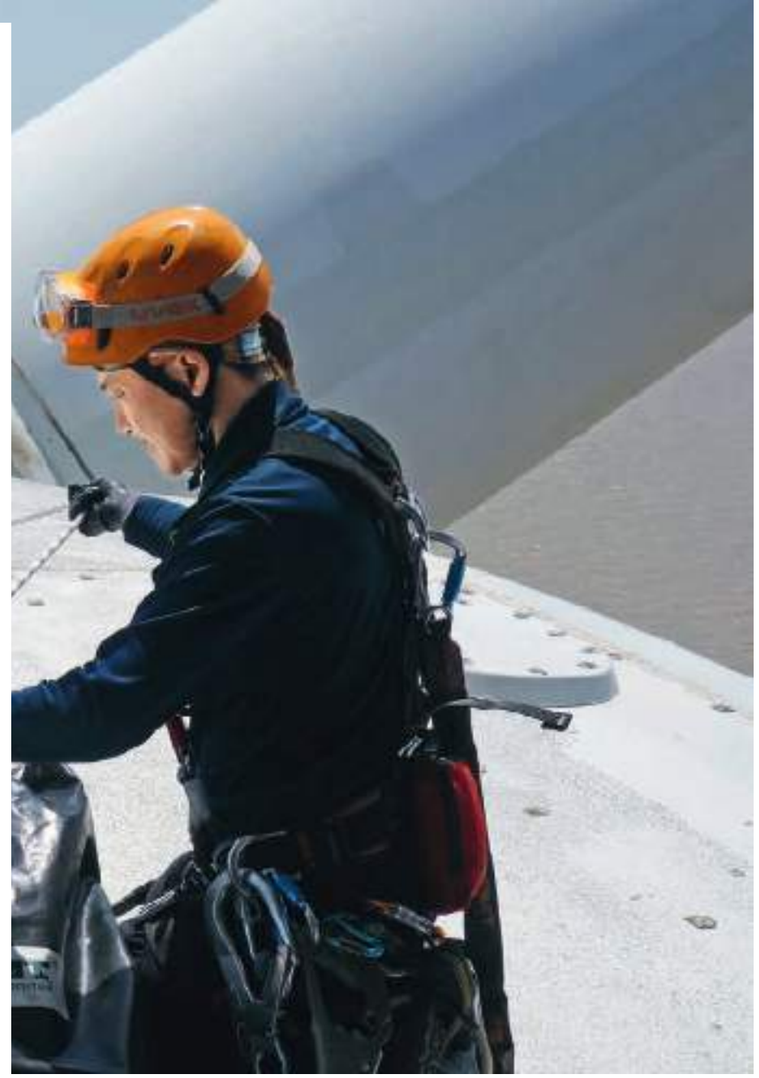
Wide and rigid seat provides the user effective support.
The bilateral semi-rigid design avoids the user's discomfort caused by the webbing stress and ensures the comfort and stability of suspension for long time.



DSA-01

With aluminum alloy material, which is light-weight and portable.
Fitted with twist-lock carabiners, which is safe and reliable.
The carabiner in the middle of the rigging plate connects to the chest attaching point of the harness.
Ergonomic design ensures the comfort and stability of suspension for long time.





Lanyards

The lanyard is a short connecting device used to connect oneself to the anchor point when working at height. There are different types of lanyards according to different usage environments.

Fall arrest lanyard with elastic arm



LTD-3010



LTS-2010

Fall arrest lanyard with rope arm



LYD-3010



LYS-2010

Work positioning lanyard



PR-6010



PR-6020

Lanyards with elasticated arms



Compact and easy to carry

The structure of elastic webbing shortens the connection length of the lanyard, convenient for use and carrying.
The lanyard with 1m of connection length can be stretched to 1.5 m.
The lanyard with 1.1m of connection length can be stretched to 1.8 m.

High strength and durability

Elastic webbing is made of ultra high molecular weight polyethylene fiber, with excellent wear resistance.
The webbing is ultraviolet-proof, suitable for harsh environments such as on mountains and at sea.
High strength, the breaking strength is no less than 25kN.
The energy absorber is enclosed in the nylon pouch of wear resistance.



LTD-3010-1.5, LTD-3010-1.8

Twin elastic arms lanyard, fitted with aluminum hooks on both anchoring ends, is lightweight, durable and applicable to the severe working conditions.
The maximum opening of aluminum hook is 60 mm.
Stretched Length: 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009



LTD-3020-1.5, LTD-3020-1.8

Twin elastic arms lanyard, fitted with steel hooks on both anchoring ends, is sturdy, durable and applicable to the severe working conditions.
The maximum opening of steel hook is 60mm.
Stretched Length: 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009



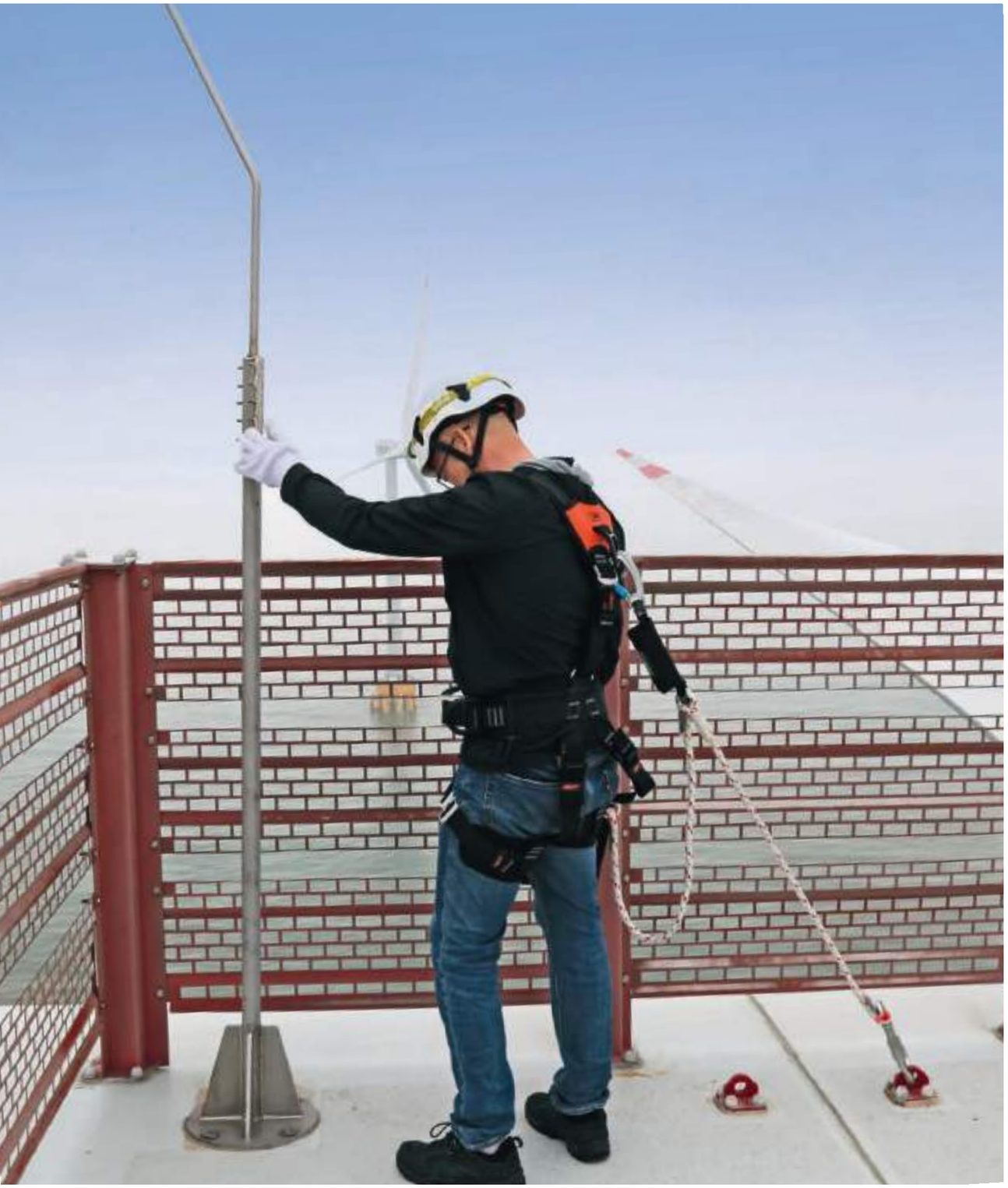
LTS-2010-1.5, LTS-2010-1.8

Single elastic arms lanyard, fitted with aluminum hooks on both ends, is lightweight, durable and applicable to the severe working conditions.
The maximum opening of aluminum hook is 60mm.
Stretched Length: 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009



LTS-2020-1.5, LTS-2020-1.8

Single elastic arms lanyard, fitted with steel hooks on both ends, is sturdy, durable and applicable to the severe working conditions.
The maximum opening of steel hook is 60mm.
Stretched length: 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009



Fall arrest lanyard with rope arm

Consists of shock absorber pack, lanyard and hooks at the ends.
To minimise the impact force acting on users less than 6kN in case of falling.
When using the lanyards with energy absorber pack pay attention to leave safety space.

LYD-3010-1.2, LYD-3010-1.5, LYD-3010-1.8



Twin rope arm lanyard, fitted with aluminum hooks on both anchoring ends, is lightweight, durable and applicable to the severe working conditions.
The maximum opening of aluminum hook is 60 mm.
Length: 1.2m 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009

LYD-3020-1.5, LYD-3020-1.8, LYD-3020-2



Twin rope arm Y-shape lanyard, fitted with steel hooks on both anchoring ends, is sturdy, durable and applicable to the severe working conditions.
The maximum opening of steel hook is 60mm.
Length: 1.5m, 1.8m, 2m
CE EN355: 2002, GB/T24538-2009

LYS-2010-1.5, LYS-2010-1.8, LYS-2010-2



Single rope arm lanyard, fitted with aluminum hooks on both ends, is lightweight, durable and applicable to the severe working conditions.
The maximum opening of aluminum hook is 60mm.
Length: 1.5m, 1.8m, 2m
CE EN355: 2002, GB/T24538-2009

LYS-2020-1.5, LYS-2020-1.8



Single rope arm lanyard, fitted with steel hooks on both ends, is sturdy, durable and applicable to the severe working conditions.
The maximum opening of steel safety hook is 60 mm.
Length: 1.5m, 1.8m
CE EN355: 2002, GB/T24538-2009

Work positioning lanyard

PR-6010-1.5, PR-6010-1.8



Work positioning rope is used in cooperation with the harness in accordance with EN358:2018, to secure the worker at the working position through the bilateral attachment points of the harness, so that the worker can leave both hands free to perform operation. Adjust the length of the work positioning rope by tensioning device.
Specialized rope, applicable to severe industrial conditions.
Length: 1.5m, 1.8m
EN358:2018

PR-6020-1.5, PR-6020-1.8, PR-6020-2



Designed for power grid by adding a wear-resistance sleeve.
Specialized rope, applicable to severe industrial conditions.
Length: 1.5m, 1.8m, 2.0m
EN358:2018



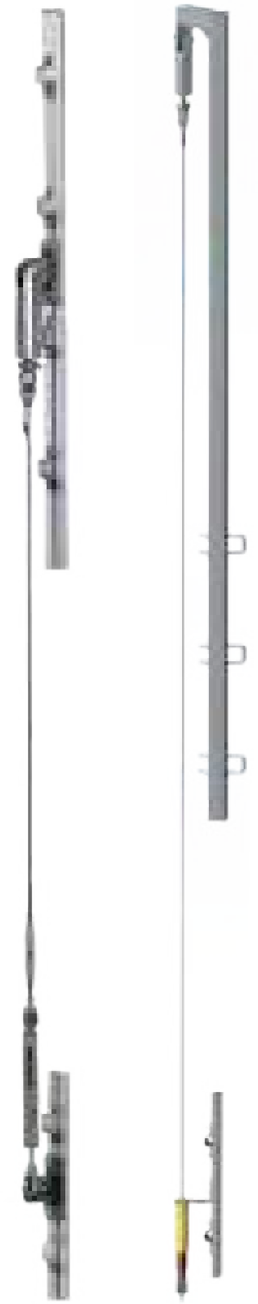
Safly V/C seriesvertical fall protection system

The Safly V/C series vertical fall protection system is atype of cable system that provides continuous protection in the vertical direction, conforms to the EN353-1 GB 24537.

The Safly V/C series vertical fall protection system is designed for climing the wind turbine towers, transmission towers, pressure vessels, piers, masts, antenna poles, and buildings. The vertical fall protection system is connected to the users with the fall arrester. Users move up and down easily and smoothly along the system. Once a fall occurs, the fall arrester will be rapidly locked onto the lifeline, the shock absorber of fall arrester will be opened, to minimise the impact force acted on the user.The system is designed for protecting the safety of persons working at heights and performing downhole operation.



Safly V/C series vertical fall protection system



Guided type fall arrester

STG-1



STG-1 is compatible with 8-9mm steel wire cable.
The body is made of stainless steel and aluminum alloy, corrosion resistance and high strength.
Opening requires two interlocking steps, which is easy to operate, safe and reliable.
Consists of shock absorber pack, which can ensure that the impact force on the human body is less than 6kN.
As long as the operation is reasonable, the device will sliding along the cable smoothly .
The locking distance is short and the locking is sensitive, which minimise the impact force acted on the use in the event of fall.
The connection structure is reasonable in length and meets the usage habits of field personnel.
Equipped with Swivel, it is more convenient to use.
Can be attached or removed conveniently at any position of the Vertical rail lifeline system.
Weight: 895g
Rated load: 45~100kg
Material: mainly aluminum alloy, stainless steel
EN353-1:2014. GB/T 24537-2009

Guided type fall arrester

STG-1A



Same function as STG-1, compatible with 8-10mm steel wire cable.
Weight: 890g
Rated load: 45~100kg
Material: mainly aluminum alloy, stainless steel
EN353-1:2014. GB/T 24537-2009



Sarail V/C series vertical fall protection system

SarailV/C series vertical fall protection system is a rail type system providing continuous protection for the users in vertical direction, in accordance with the EN353-1 and GB 24542.
Sarail V/C series fall protection system is designed to be mounted on various climbing ladders in wind towers, transmission towers, telecom towers,
watchtowers, buildings, bridges, masts, antenna poles, shafts and etc. The vertical fall protection system is fixed onto fixtures and the user sattach themselves to the rail with the fall arrester. Users can move up and down smoothly with the fall arrester. Once a fall occurs, the fall arrester will rapidly lock onto the rail and the energy absorber of fall arrester will be stretched to minimize the impact force acting on the user to less than 6kN.

Sarail V vertical rail fall protection system

Product	Model	Length
Sarail Vvertical rail fall protection system	Sarail V -15	15m
	Sarail V -25	25m
	Sarail V -40	40m
	Sarail V-100	100m



Guided type fall arrester

SRL-01

The body is made of stainless steel and aluminum alloy, corrosion resistance and high strength.
Two consecutive actions can open the structure,
which is easy to operate, safe and reliable.
Consists of shock absorber pack, which can ensure that the impact force on the human body is less than 6kN.
As long as the operation is reasonable, the device will sliding along the cable smoothly .
The locking distance is short and the locking is sensitive, which minimise the impact force acted on the use in the event of fall.
The connection structure is reasonable in length and meets the usage habits of field personnel.
Equipped with Swivel, it is more convenient to use.
Can be attached or removed conveniently at any position of the Vertical rail lifeline system.
Weight: 870g
Rated load: 45~100kg
Material: mainly aluminum alloy, stainless steel
Temperature: -40℃~+60℃
EN353-1:2014. GB 24542-2023



Guided type fall arrester

SRC-02

SRC-02 guided type fall arrester is a rail fall arrest equipment that operates in conjunction with C series guide rail.
The main body of SRC-02 guided type fall arrester is made from high-strength aerospace aluminum alloy, featuring light weight and high strength.
SRC-02 guided type fall arrester contains an energy absorber, guaranteeing that the falling impact force on human body is less than 6kN.
SRC-02 guided type fall arrester moves up and down smoothly along the rail, and no accidental sticking will occur.
Sensitive lock-up, the locking distance is less than 120mm, guaranteeing a reasonable falling distance of operators.
All materials used have good corrosion resistance.
The length of the connecting structure is reasonable, in line with the using habits of on-site personnel.
The safety hook has a universal joint, easy to use.

Weight: 720g
Rated load: 45~100kg
Material: mainly aluminum alloy, stainless steel
Temperature: -40℃~+60℃
EN 353-1:2014. GB 24542-2023

Safly H Horizontal fall protection system

The Safly H horizontal fall protection system is a double-cabletype anchoring system mountedon steel beam or concrete structures through the anchor kits.
It is an excellent and effective safety protection system, in accordance with GB 38454-2019 and EN795:2012 Type C.
The Safly H horizontal fall protection system can be mounted on the wall and roof of buildings, the strength of which should meet the requirements of anchorage to ensure safety.
Specialized slider runs smoothly with the movement of the user connected to through a lanyard with energy absorber along the cablesin normal situations. The opening slider can be attached to and removed from the cables conveniently at any position of the system. In case of a fall, the slider will engage on the cables to prevent the falling of the user and energy absorber of the lanyard can mitigate the impact force acting onthe user.
The Safly H horizontal fall protection system can be equipped with inverted sliders for the service, such as roof or ultra high side mounting system. The inverted slider is equipped with 4 rolling wheels and 2 transition shafts, which can run smoothly in the system and ensure the comfort.

Safly H horizontal fall protection system

Product	Modle	Length
Safly H horizontal fall protection system	Safly H-50	50m
	Safly H-100	100m
	Safly H-150	150m
	Safly H-200	200m





Opening slider

SHLB-01A

Applicable to Sarail H and Sarail HE horizontal lifeline system.
Can be attached and removed at any position of the system, safe and reliable;
Can move smoothly with the user along double cables of the system arranged on floors, walls and under ceilings, passing through curves and intermediate anchors freely;
Materials: stainless steel
MBS＞12kN
Weight: 646g
CE EN795: 2012
GB 38454-2019



Inverted slider

SHLB-01F

Used in conjunction with the Safly HE series horizontal lifeline, especially for working conditions with high-level side horizontal lifelines.

Smooth sliding on lifeline, thanks to integrated pulleys, and limited sliding after falling.
MBS＞12kN
Weight: 874g
CE EN 795:2012
GB 38454-2019



Inverted slider

SHLB-01D

Suitable for Safly H and Safly HE series horizontal lifelines
Permanently mounted upside down on the system

Equipped with 4 rolling wheels and 2 transition shafts to ensure the comfort.
Main stainless steel material
MBS＞12kN
Weight: 986g
CE EN 795:2012
GB 38454-2019



Horizontal slider

SR-200

Applicable to SKR-H rail horizontal fall protection system

Materials: stainless steel and copper
MBS＞12kN
Weight: 635g
CE EN795: 2012
GB 38454-2019



Sealed Self-Retracting Lifeline

ASAT sealed Self-Retracting Lifeline uses separated inner space, the centrifugal locking mechanism, energy absorption unit and other core mechanisms are sealed in an individual case to completely isolate oil, water, air, dust and other external environments from it. Even in harsh environments, the locking performance will not be affected at all.

ASAT sealed Self-Retracting Lifeline is especially suitable for high salt, humidity, dust and other offshore or storage environments. The frame is made of aluminum alloy and stainless steel, which is resistant to salt, alkali, cold and heat, and UVs, and can adapt to the harsh marine environment.

ASAT sealed Self-Retracting Lifeline uses stainless steel wire cable, which has passed the 2000h salt spray test without rust. Safer use with 5mm high strength wire cable.

The ASAT sealed Self-Retracting Lifeline is integrated with a high load energy-absorbing device with high reliability. It adopts a large friction disc design, and the impact force can be stably controlled below 6 kN with a 150 kg load falls. If another fall occurs during self-rescue or rescue after a fall, the energy-absorbing device can still control the impact force at 6 kN, with a high safety margin.

The ASAT sealed Self-Retracting Lifeline has a specially designed centrifugal locking mechanism that can automatically adapt to different loads, greatly reducing vibration during arresting fall and locking quickly.

The attachment point of ASAT sealed Self-Retracting Lifeline is specially designed for offshore wind turbine, which can be directly connected to the wind turbine tower foundation in various ways, instead of using of sling and connectors, greatly reducing the swing in the sea wind. The attachment point can also absorb the impact force.

The ASAT sealed Self-Retracting Lifeline has passed 1,000 cycles retraction tests; 2,000 times of reliability tests, with good stability.

The static test of ASAT sealed Self-Retracting Lifeline reaches 16 kN (the GB national standard and the European standard require 12kN).

The ASAT sealed Self-Retracting Lifeline is equipped with a with a fall indicator 360° swivel connecter, prevent the wire rope from twist.And equipped with a traction cord, easy to use.

The ASAT sealed SRL can be equipped with a super duplex stainless steel carabiner specifically designed for seawater and hot seawater environments, which has excellent resistance to marine environments.



Sealed Self-Retracting Lifeline

FAS-0106
Working length: 6m
Weight: 8.3kg
EN360:2023. GB 24544-2023



Sealed Self-Retracting Lifeline

FAS-0110
Working length: 10m
Weight: 9.3kg
EN360:2023. GB 24544-2023



Sealed Self-Retracting Lifeline

FAS-0115
Working length: 15m
Weight: 9.8kg
EN360:2023. GB 24544-2023



Sealed Self-Retracting Lifeline

FAS-0120
Working length: 20m
Weight: 11.5kg
EN360:2023. GB 24544-2023



Sealed Self-Retracting Lifeline

FAS-0125
Working length: 25m
Weight: 16.3kg
EN360:2023. GB 24544-2023





Chest ascender

HAC-03

Compatible with semi static rope of φ10-12mm.

Weight: 140g.

CE EN567: 2013 CE EN 12841: 2006 B



Ascent handle

HAL-01, HAR-01

Light and convenient design, provide the user comfortable handling.

Left-hand and right-hand type sare available for option.

Compatible with rope of φ8-13mm.

Weight: 210g

CE EN567: 2013



Foot Strap

LFA-15

Foot strap

HMPE 5mm cord foot loop, the adjustable length.

Extremely durable.

The semi-rigid loop is very easy to step in.

Length:800-1300 mm

Working Load Limit: 300kg

Webbing material: HMPE 22mm webbing

Helmets

Helmets for work at height, industrial, rescue, forestry. External shell: advanced thermo material (ABS). Inner shell: polystyrene (EPS). Removable headband, Slots for ear protectors (quick fixing/release system), Adjustable chinstrap, Headlamp clips.

Sizes: 51-62 cm

Weight: 420 g

CE EN12492



High-end waterproof tool backpack

BT-302060

waterproof square bottom, 500D PVC material, blue color; seamless construction, waterproof material, well-designed carrying system, comfortable to carry heavy load.

Maximum load: 50 kg

Size: square bottom, length 29cm, width 19cm; opened height 68cm.



Double shoulder waterproof tool bag

BD-30080

waterproof cylindrical backpack, 500D PVC material, orange color; seamless construction, waterproof material, simple carrying system.

Model: BT-30080, Maximum load: 50kg.

Size: Round bottom, 31cm in diameter, opened height 80cm.



Versatile tool pouch

BT-0030

Polyester fabric

3L main compartment + external zippered pocket for small items or cellphoneYKK zipper and DURAFLEX buckles

Weight: 150g

Size:12cm*10cm*21cm

Bags

Backpack for personal equipment BT-10450

Big Pro 45L

- A mixed structure of nylon and TPU, self-standing design.
- With a backpack system for comfortable carrying, the 45 liters volume for your daily personal equipment.
- Multiple openings for easy access to items inside the pack, with a main roll top closure and double-zipper wide opening on the front side.
- Independent front compartment design allows for quick placing big size items.
- Equipment loops on sides of the pack and in the main compartment.
- Two pockets in front compartment for small items.
- YKK zipper and DURAFLEX buckles.
- Velcro area and identification windows facilitate to personalize your pack.



Size: 60cm*32cm*21 cm
Weight: 1.8kg
Equipment loop WLL: 10kg





Backpack for equipment management BT-60380

- TPU structure, with a volume of 38 liters.
- With a simple carrying system. It can also be carried by a large handle.
- The Velcro closure can be fully opened and placed flat on the ground, making it convenient to manage equipment on work station.
- The upper and bottom covers can be fully opened by zipper. There are mesh pockets in the inside of the two covers.
- A helmet carrying system on the top.
- There are three adjustable straps and openable loops inside the pack, which can manage and secure the items.
- The mesh pockets inside facilitate the management of equipment, and the pockets can be separated by buttons.
- Using YKK zippers.
- The identification window for labeling backpack.



Size: 70cm*26cm*19cm
Weight: 2.5kg
Equipment loop WLL: 10kg





Ropes



Semi-static rope

ASAT semi static ropes are perfect for use with the devices in accordance with EN341, suitable for long-distance descending or traversing operation.
High breaking strength and wear resistance.
Comfortable for handling.

AR-TS03-11

Diameter: 11mm
Elongtation: 3%
Weight: 75g/m
Breaking strength: 32kN

AR-TS01-9.6

Diameter: 9.6mm
Elongtation: 4%
Weight: 61g/m
Breaking strength: 25kN

Insulating rope

AR-YC2-12

ASAT insulation rope conforms to GB/T13035-2008, diameter 12mm; AC withstand voltage test 580kV, without flashover, breakdown and overheating; impact withstand voltage test 1050kV, without flashover and breakdown; ASAT insulated rope is specially used for power grid live operation, cooperate with powered ascending device ACE-32, overhaul transmission lines, transportation equipment and personnel;



Rope roller protector and flexible rope protector

Rope roller protector

SPR-11

Rope diameter≤13mm WLL:350 kg
Material: aluminum alloy, stainless steel
Size:110×395×50 mm Weight:1325g
Four rollers in four modules for four moving ropes.
Joint construction suitable for different terrains, eg rock, roof, edge.
Two attachment holes on each side, easy for fixing.



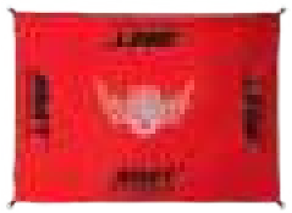
Edge protector
SPR-01

Rope protector for fixed and moving rope on edge. Two rope paths, easy for rope management, reduce the risk of rope twisting.

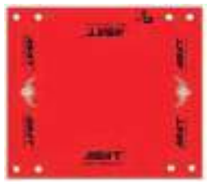


ASAT equipment tarp
MAT-01

Protect your equipment from ground dust
• Lightweight polyester tarp, large area: 200×140 cm
• Protect your equipment from the dust and moisture on the ground
• Four corners with D ring for connecting rope ends
• A pocket on the back of tarp for storage
• You could also store it in a small bag(included)









RPM-01, RPM-02

For rope edge protection, double layer canvas, lightweight design.
Bright red color for a better checking in a long-distance.
One open side design, can be used as a temporary bag for rope, sling, etc.
Can DIY reinforce your mat by adding material inside the mat.
8 connecting holes in four corners, for easily fixing the mat.

RPM-01: Size: 80 cm×70 cm
RPM-02: Size: 150 cm×70 cm









ASAT rope protector
RP-0140, RP-0180

ASAT rope protector
For rope edge protection
• Robust double layer canvas, lightweight design
• Bright red color for a better checking in a long-distance
• Connection loops on both sides
• Accessory cord for a prusik knot on the rope
• Suitable for two strands of rope
• Two length optional, RP-0140(40cm) and RP-0180 (80cm)



17mm lightweight high strength loop sling

LS-17

Lightweight sewn loop sling with high breaking load. MBS 40 kN! Simple design, compact size, high performance-price ratio. Flat construction. Thanks to its grey/orange mixed color pure HMPE material, it's very supple, slippery and wear-resistance. Color-coded label for identification of length. Available in 4 lengths, suitable for setting anchor or belay station in industrial use, rescue. Special length can be customized.

CE EN566，EN795-B、TS 16415、GB30862-2014/B, XF494-2023

Model	Length	weight	Width	MBS
LS-17-60	60 cm	40 g	17 mm	40 kN
LS-17-80	80 cm	50 g	17 mm	40 kN
LS-17-120	120 cm	74 g	17 mm	40 kN
LS-17-160	160 cm	96 g	17 mm	40 kN

16mm Polyester loop sling

LS-16

Standard sewn loop sling, made of durable flat polyester webbing, featuring low water absorption and high-cost performance. Color-coded webbing for identification of length. Available in 4 lengths, suitable for setting anchor in industrial use and rescue. Special length and color can be customized.

CE EN 566, CE EN795B , GB 30862/B, XF494

Model	Length	weight	Width	MBS
LS-16-60	60 cm	60 g	16 mm	25 kN
LS-16-80	80 cm	77 g	16 mm	25 kN
LS-16-120	120 cm	110 g	16 mm	25 kN
LS-16-160	160 cm	145 g	16 mm	25 kN



10mm Ultra-lightweight loop sling

LS-10

Ultra-lightweight sewn loop sling. Flat construction. Thanks to its pure HMPE material, it's very supple, slippery and wear-resistance. Color-coded label for identification of length. Available in 4 lengths, suitable for setting anchor or belay station in industrial use, rescue and climbing. Special length can be customized.

CE EN 566, CE EN795B , GB 30862/B, XF494

Model	Length	Weight	Width	MBS
LS-10-60	60 cm	21 g	10 mm	22 kN
LS-10-80	80 cm	26 g	10 mm	22 kN
LS-10-120	120 cm	35 g	10 mm	22 kN
LS-10-160	160 cm	45 g	10 mm	22 kN

Carabiners & rigging plates



Category	Picture	Name	Model	Material	Rope diameter(mm)	Weight (g)	Minimum breaking load(kN)	Standard
Rigging plate		Rigging plate	HRP-0101	aluminum	-	70	36	UIAA 130
		Rigging plate	HRP-0103	aluminum	-	210	40	UIAA 130
		Rigging plate	HRP-0105	aluminum	-	467	46	UIAA 130
Pulleys		Single pulley	HPA-0102	aluminum alloy, stainless	⩽13mm	235	40	CE EN 12278:2007
		Single pulley with swivel	HPA-0302	aluminum alloy, stainless	⩽13mm	305	36	CE EN 12278:2007
		Double pulley with swivel	HPA-0402	aluminum alloy, stainless	⩽13mm	495	36	CE EN 12278:2007
		Knot passing pulley	HPA-0501	aluminum alloy, stainless	8-19mm	1050	36	CE EN 12278:2007



Category	Picture	Name	Model	Certification	Size(mm)	Max gate opening (mm)	Min breaking load	Weight(g)
Aluminum carabiners		Triact-lock carabiner	HA-0201	EN362:2004 EN12775:2013	110x61	22	25	84
		Twist-lock-carabiner	HA–0206	EN362:2004 EN12775:2013	137x79	22	25	83
		Screw-lock carabiner	HA–0211	EN362:2004 EN12775:2013	111x76	22	25	80
Steel carabiners		Screw-lock carabiner	HS-0101	EN362:2004	108x58	18	23	176
		Twist-lock carabiner	HS-0104	EN362:2004	109x60	19	23	165

ASAT Power Ascender - Rope compatibility test method

1. The purpose

ASAT power ascender is for personnel ascent and descent. To be on the safe side, all the rope used with ASAT power ascender must be passed the rope compatibility test.

2. Precautions for choosing the rope:

2.1 Not all EN 1891 type A ropes are compatible with ASAT power ascender.

2.2 After many tests, ASAT suggests: the rope which is densely braided used with ASAT power ascender, the radial deformation of the rope is relatively smaller and there'll be more friction between the rope and the sheave under the same load compared with soft rope. The soft rope may cause slippage in the sheave, and even squeeze between the sheave and pulley, then lead to damage of the rope and the device.

2.3 The results obtained by this testing method are also influenced by the following factors: rope condition, wear degree of the sheave and cover, and environmental conditions - air humidity.

3. Test preparation:

3.1. Rope:

3.1.1 Considering the practicality of rope access and the objectivity of testing, ASAT does not recommend pre-treatment of ropes, such as soaking and drying, to maintain their original state.

3.1.2 Rope diameter: 11 ± 0.2mm.

3.1.3 Rope length: 7 ± 0.5m. (the height of anchor 6m, rope length should be longer than the height of anchor 1m)

3.1.4 The upper end of the rope should be a figure-8 knot or a sewn termination.

3.1.5 For one rope model, you should have 2 samples to do the test.

3.2 Test equipment

3.2.1 It is necessary to use an ASAT power ascender which is in good condition to do the test (especially for the rope sheave and cover are in good condition).

3.2.2 The height of the anchor should be at least 6m.

3.2.3 The breaking load of anchor shall be at least 12kN.

3.2.4 The components used for testing should comply with the requirements of PPE standards.

3.3 Testers

3.3.1 They're proficient in operating the power ascender.

3.3.2 Maintain a safe distance of 5m from the vertical line of the load or have a protective shelter.

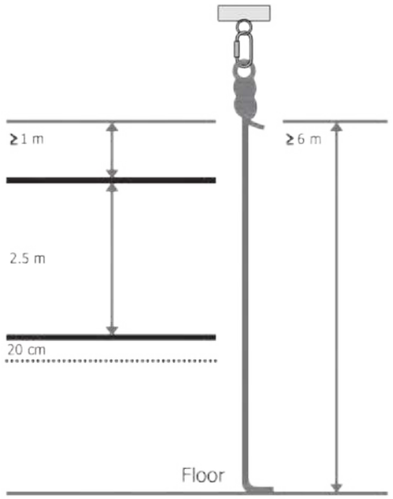
3.4 Test environment requirements: Environmental conditions, especially for air humidity, have a direct impact on the test results.

3.4.1 Temperature: 15-25 ℃.

3.4.2 Relative humidity: 45% -55%.

4. Test:

4.1 Rope installation and marking: as shown in the following figure



4.1.1 The rope should be installed on the anchor that comply with EN 795 at a height of 6m or on an anchor with similar static strength. If the anchor position is higher than 6m, a steel wire rope can be used to extend the anchor to ensure a height of 6m. Tie a figure-8 knot or use the sewn termination of rope to connect the anchor.

4.1.2 Connect the 7m rope to the anchor as a test rope.

4.1.3 Use a marker to mark the upper and lower ends of the 2.5m zone, with the lower end indicates the start point of ascent and stop point of descent, and the upper end indicates the stop point of ascent and start point of descent.

4.1.4 Use a marker to make a tolerance mark 20cm below the lower end to measure the slippage distance during descent.

4.1.5 Make sure the rope is installed correctly, and the rope should have a margin of about 1m for the rope installation in the power ascender.

4.2 Test: Each rope sample should undergo the following five tests in order. If any one of them does not meet the requirements, it cannot pass the test. The tested rope samples should not be serious damaged on rope sheath (i.e. you can directly see the core of rope), and the tested rope should also meet the manufacturer's inspection requirements.

4.2.1 Test 1: Rope installation and uninstallation test

4.2.1.1 Procedure: Select three different sections of the unloaded rope. Install them in the power ascender and then remove the rope according to the instruction of device.

4.2.1.2 Result: If the installation and uninstallation of rope are functioning well, the rope sample will pass this test.

4.2.2 Test 2: Moving test:

4.2.2.1 Procedure:

- Using a load that is 1.25 times heavier than the rated load of the power ascender.
- Install the rope in the power ascender.
- Operate the device with the remote control to slowly lift the load to the upper mark of rope (you can pull the free end of rope to avoid slippage between the rope and the sheave).
- Use the remote control to quickly descend the load and stop at the lower mark of rope.

4.2.2.2 Result:

The ascent is functioning well, and after the emergency stop of descent, if the slippage length is no more than 20cm, the rope sample will pass this test.

4.2.3 Test 3: Static load test.

4.2.3.1 Procedure:

- Make a mark on the free side of rope near the pulley of the power ascender that completed Test 2.
- Slowly increase the load on the device to 1.5 times the rated load and maintaining for 3 minutes;

4.2.3.2 Result:

Check the position of rope mark, if there is no significant rope slippage, the rope sample will pass this test.

4.2.4 Test 4: Performance test

4.2.4.1 Procedure:

- Use a specified load (150kg for ACE-24 and 120kg for ACE-22) on the power ascender.
- Use the remote control to control the device to the lower mark of rope.
- Use the remote control to control the device with the specified load to ascend and descend between the upper and lower mark of the rope for a total of 50 circles.

4.2.4.2 Result:

If the power ascender is functioning well during the test, and there is no damage on the rope after the test, the rope sample will pass this test.

4.2.5 Test 5: Rope installation and uninstallation test

4.2.5.1 Procedure:

- Select the severely worn parts of the ropes that have completed test 4, and take three different sections of rope for installation and uninstallation test in the power ascender.

4.2.5.2 Result:

- If the installation and uninstallation of rope are functioning well, the rope sample will pass this test.

Recommendations of rope for ASAT power ascender:

After many tests, ASAT suggests: the rope which is densely braided used with ASAT power ascender, the radial deformation of the rope is relatively smaller and there'll be more friction between the rope and the sheave under the same load compared with soft rope. The soft rope may cause slippage in the sheave, and even squeeze between the sheave and pulley, then lead to damage of the rope and the device.

According to the test above, ASAT suggests the rope in the list can be used with our power ascender.

For ACE-22

Items	Brand	Reference	Diameter	Color	Place of production
1	ASAT	AR-TS03-11	11mm	White	China
2	EDELRID	PROSTATIC SYNCTEC	11mm	Blue	Germany
3	EDELRID	STATIC LOW STRETCH	11mm	Green	Germany
4	Petzl	AXIS	11mm	White	France
5	STERLING	WorkPro	11mm	White	USA
6	TEUFELBERGER	Ultrastatic	11mm	Black	Austria
7	TEUFELBERGER	KMIII	11mm	White	Austria

For ACE-24

Items	Brand	Reference	Diameter	Color	Place of production
1	ASAT	AR-TS03-11	11mm	White	China
2	Petzl	AXIS	11mm	White	France
3	STERLING	WorkPro	11mm	White	USA
4	TEUFELBERGER	Ultrastatic	11mm	Black	Austria
5	TEUFELBERGER	KMIII	11mm	White	Austria