



Translated versions



ACX

**POWER
ASCENDER**

User manual



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best of the best 2018

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**HAND-BUILT
IN SWEDEN**

DISCLAIMER

WARNING

Training and experience are required to lower the risk of serious bodily injury or death.

This user's manual provides general information about safe operation and risks associated with the use of the SKYLOTEC ActSafe ACX Power Ascender. It also gives details of maintenance procedures.

Never use the equipment unless you have read and understood this manual and completed a SKYLOTEC approved training in the use of the power Ascender system. SKYLOTEC Nordic AB, our partners and subsidiaries, disclaim any liability for damages, injuries or death resulting from the use of the equipment which is not in compliance with this manual.

This manual may be updated without notice.

For more information about updates and safety warnings, visit **www.skylotec.com**



Failure to read and follow the instructions within this manual may result in fire, damage to property, personal injury or death.

FOREWORD

Thank you for choosing the SKYLOTEC ActSafe ACX Ascender from SKYLOTEC.

This Ascender has been designed as an ultra-portable and versatile lifting tool for lifting people or equipment in a safe and effective way. It revolutionises working in a vertical environment.

BE AWARE:
**A Power Ascender is a hi-tech tool
and should be treated with care.**

A

INTRODUCTION

About SKYLOTEC	A.01
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A

We are completely committed to our customers and do our utmost to deliver top quality products and service.



A.01 ABOUT SKYLOTEC

SKYLOTEC is a pioneer in developing powered Rope Ascenders and has been delivering high-performance powered equipment since 1997.

SKYLOTEC has a worldwide distribution network of dedicated experts selling our innovative products to a wide variety of users. Our Power Ascenders have been successfully used for installing fireworks at the top of the Eiffel Tower, hostage rescue from pirates at sea and providing essential logistical support in offshore wind turbines.

SKYLOTEC products are redefining the possibilities for work in vertical environments.

A.02 ABOUT THIS MANUAL

This manual gives detailed information on features and safety. However, this manual cannot replace the need for training and experience. The Ascender must only be used by operators who have undergone the SKYLOTEC-approved training.

Safety messages of extra importance are highlighted throughout this manual using the signals 'danger', 'caution', 'note' and 'recommendation'.



DANGER

Not following instructions or training methods may result in **SERIOUS BODILY INJURY** or **DEATH**.



CAUTION

Not following instructions or training methods may result in **BODILY INJURY**, or **DAMAGE TO PROPERTY**.



Note

Important information on the use of the equipment used with the Ascender.



RECOMMENDATION

Instructions and tips on how best to use the Ascender.

A.03 DEFINITIONS

Active/loaded rope

Loaded end of the work-positioning rope system.

Anchor

Attachment point for rope or Ascender.

Ascending

Moving up the rope.

Backup system

A system which captures the load in case of primary rope failure. Approved according to backup system requirements.

Competent Person

Operator with adequate training, experience and certification.

Descending

Moving down the rope.

Passive/dead rope

Unloaded end of the work-positioning rope system.

Primary rope

Work rope system used with Ascender. Rope must be 11 mm (7/16") and approved according to *EN 1891 A* or be an Equipment Lifting Rope depending on the application.

User/operator

Operator of the Ascender, either by the Throttle or by the Remote Control.

Secondary rope

See 'Backup system'.

SWL

Safe Working Load. The maximum load (as certified by a competent person) that an item of lifting equipment may raise, lower or suspend under particular service conditions.

WLL

Working Load Limit. The maximum load that an item of lifting equipment is designed to raise, lower or suspend.

B

PRODUCT SAFETY & SYSTEM DESCRIPTION

Product safety	B.01
Usage exclusions	B.02
System description	B.03
Rope mechanism	B.04

B

B.01 PRODUCT SAFETY



SKYLOTEC Ascender operators must, before first use, have undergone training in the safe use of the Ascender by either SKYLOTEC or by a SKYLOTEC-approved training partner.

The SKYLOTEC Ascender must be checked before every use by a Competent Person and must undergo a minimum of one inspection per year by SKYLOTEC or a SKYLOTEC-authorized person.
More frequent inspections may be required by your national regulations.

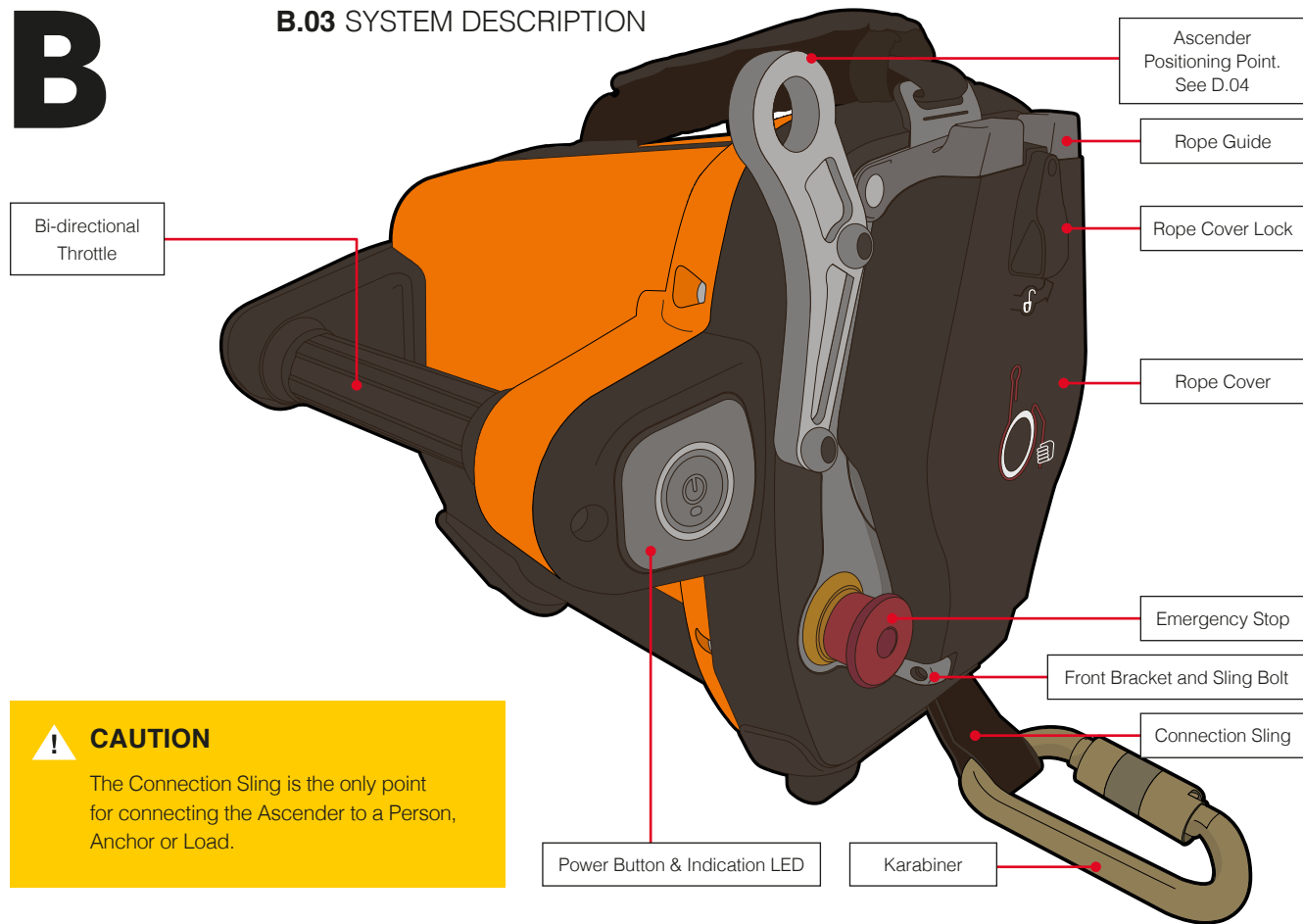
B.02 THE ASCENDER **MUST NOT BE USED:**



- » For any purpose other than that for which it has been designed
- » In an explosive environment
- » If modified in any way by anyone other than SKYLOTEC
- » After a free fall from a height of more than 0.5 m (2 ft) or any other severe impact onto a hard surface
- » If subjected to misuse in any way so that parts or components might have been damaged
- » If exposed to high impact forces caused by people or loads falling into the system
- » In windspeeds higher than 12 m/s. (43.2 km/hr)
- » In underground mines or quarries.
- » In weather conditions with risk for lightning
- » With any Battery other than original SKYLOTEC ACX Batteries
- » With any other battery charger than the appropriate SKYLOTEC ACX / HCB Battery Charger
- » With a damaged or modified SKYLOTEC ACX Battery and/or ACX Charger
- » If the operator is unsure of how to use the Ascender safely
- » If you are tired, ill, using prescription medication that prevents you from using machinery, or under the influence of alcohol and/or drugs
- » Without having performed a pre-use check

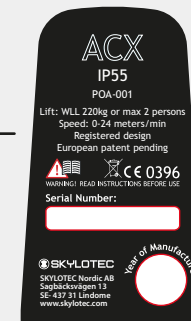
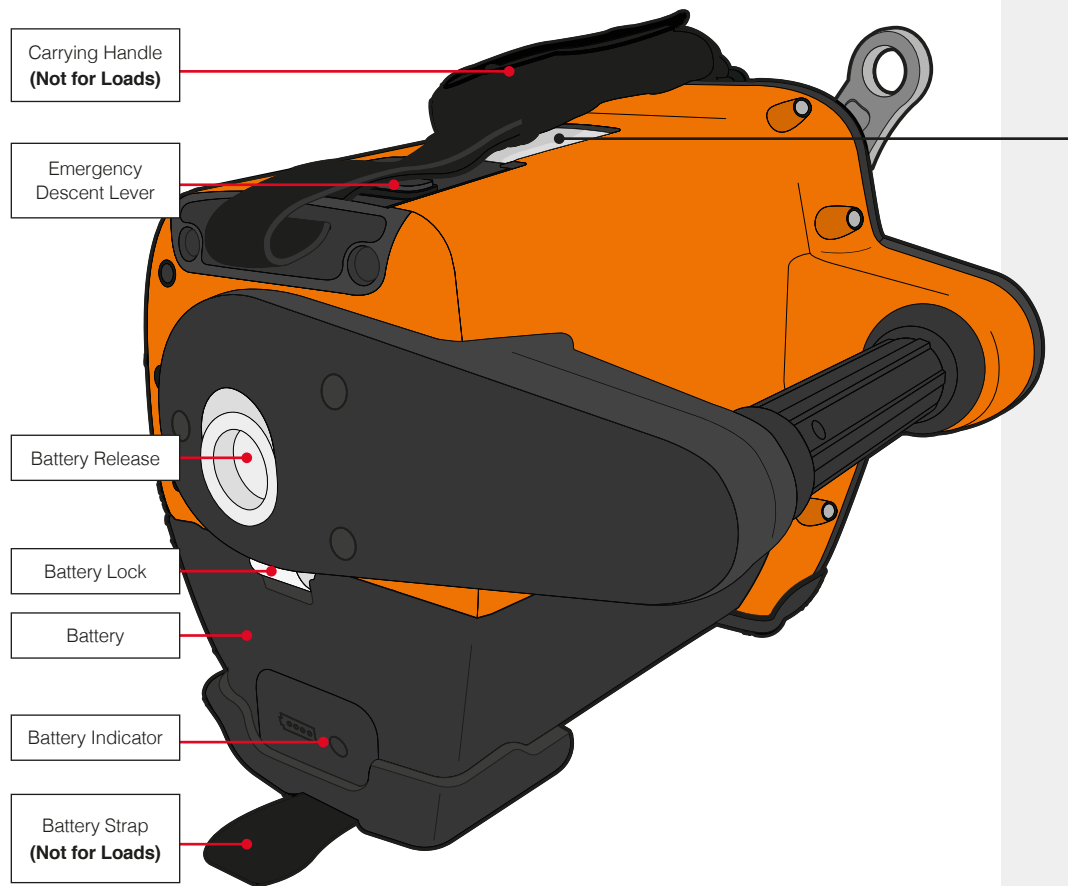
B

B.03 SYSTEM DESCRIPTION



CAUTION

The Connection Sling is the only point for connecting the Ascender to a Person, Anchor or Load.

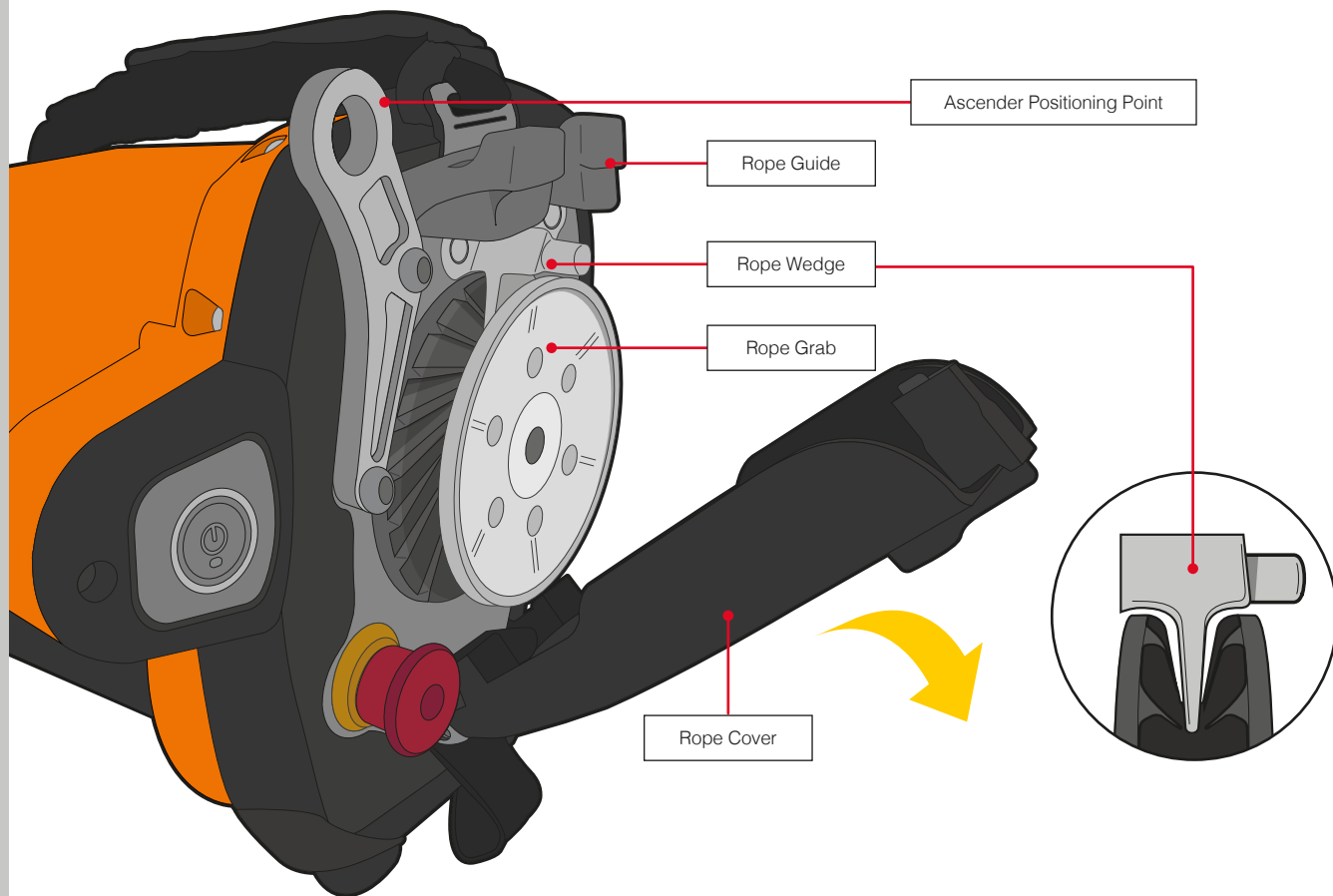


Machine Rating label

The Ascender is supplied with a machine label attached to the housing. This label must not be removed!

The ACX Ascender is approved under the machinery directive 2006/42/EC for lifting both people and equipment with a Working Load (WLL/ SWL) of 220kg (485 lb).

B.04 ROPE MECHANISM



C

ROPE

Rope type
and preparation

C.01

C

C.01 ROPE TYPE AND PREPARATION

The correct choice of rope type depends on whether the Ascender is being used to lift or lower equipment or personnel.

Check with your SKYLOTEC supplier for suitable ropes.

11mm (7/16") Approved ropes only

SKYLOTEC Power Ascenders may only be used with ropes that have been approved by SKYLOTEC. Approved ropes have gone through a thorough internal test procedure where the combination of rope and Power Ascender are tested under several circumstances. Additional restrictions on use may apply.

Equipment lifting

The ActSafe Equipment Lifting Rope (ELR) is the only approved rope to be used in the equipment lifting system and can be ordered at SKYLOTEC or your SKYLOTEC distributor.

Personnel lifting

The ropes that have been certified for use must be 11 mm (7/16"), EN 1891-A ropes.

For an updated list of recommended ropes, please visit the SKYLOTEC website at www.skylotec.com. Softer ropes are unsuitable for the use in SKYLOTEC Ascenders. Softer ropes should be avoided because they deform under load, grip is poor and can potentially jam the Rope Grab system.

Pre-Soaking (applies only to Polyamid ropes)

It is recommended that only pre-soaked ropes are used with SKYLOTEC Ascenders. New ropes should be put in cold water < 40 °C (104 °F) for 24 hours and dried slowly afterwards.

This will make ropes more suitable for use in SKYLOTEC Ascenders for two reasons:

1. Rope density

Pre-soaking makes ropes denser. The fibres will absorb the water and will shrink when drying.

The result is that all fibres become more densely aligned and the sheath sits tighter around the core of the rope. This will make the rope more solid and will consequently result in less mantle slippage and deformation and thereby lead to better grip in the Ascender.

2. Oil dissolution

During the production process some oil is added to the rope fibres in order to reduce the friction between the individual fibres. When soaking the rope in cold water some surface oil in the sheath of the rope will dissolve. This will contribute further to a better grip. Do not soak ropes in warm water, this will lead to greater dissolution of

oil, which will have a negative impact on the rope properties.



CAUTION

Always make sure that the rope is in good condition.



RECOMMENDATION

A new rope will get an increased service life if it is soaked in cold water before the first use.

Avoid getting sand or dirt onto/ into the ropes since it will wear the Rope Grab and Rope Guide. Use a rope mat, rope bag or similar.





D

GENERAL SAFETY GUIDELINES AND LIFTING SYSTEMS

General safety guidelines	D.01
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D

D.01 GENERAL SAFETY GUIDELINES

The ACX Ascender is designed for both personnel and equipment lifting. These applications have different system requirements that are described in the following pages.



DANGER

DO NOT USE the Ascender if you are tired, ill, using prescription medication that prevents you from using machinery, or under the influence of alcohol and/or drugs.



CAUTION

DO NOT hold the loaded rope when ascending as there is a risk of pinching.

- » Operate the Ascender according to the advice contained within this user manual and pre-planned work instructions (lift plan, access plan)
- » Only trained and competent operators should operate the ACX Ascender and its ancillary equipment
- » Plan and evaluate your work carefully. A rescue plan should be in place
- » Plan for appropriate supervision of work
- » Perform a toolbox talk before starting the work
- » Use only approved and inspected equipment. This goes for the Ascender, PPE and/or lifting equipment
- » Inspection of equipment must be carried out in accordance with local regulations. The Ascender should undergo a documented inspection at least once every year
- » Pre-use check of the Ascender should be carried out in accordance with the inspection guidance provided (see F.11)
- » Use PPE (Personal Protective Equipment) such as helmet, gloves and protective eye wear when required
- » Keep your hands, hair and clothing away from moving parts
- » Keep a constant eye on the Rope Guide to ensure that the rope is running smoothly through the rope mechanism

D.02 DYNAMIC FORCES

The Ascender system should not be exposed to high impact forces caused by people or loads falling into the system.

When offshore lifting off the deck of a crew transfer vessel, the vertical movement of the deck can cause dynamic forces on the ACX that need to be considered. Given the dynamic loading, the rigging should:

Prevent the ACX from being banged against surroundings while being loaded and offloaded.

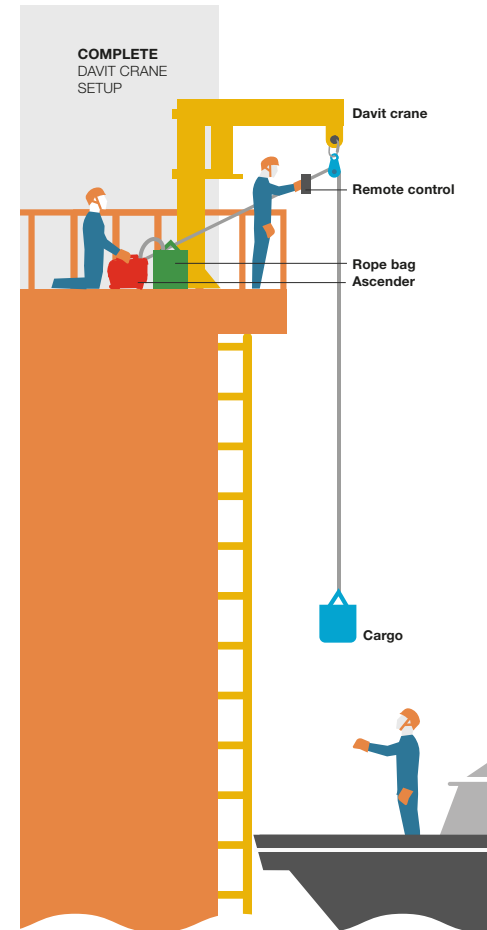
Ensure that nothing can accidentally actuate the rope cover lock or battery lock.

Operational Guidelines Based on Swell Height (Hs):

- » Swell height of up to 0,75 m
No restriction on WLL.
- » Swell height of up to 1 m
Reduce WLL by 25%.
- » Swell height of up to 1,5 m
Reduce WLL by 50%.
- » Swell height of up to 2 m
Reduce WLL by 75%.
- » Swell height 2 m or higher:
No lifting with ACX.

Assumptions:

- » 1,5 m swell height generates a maximum vertical speed of the vessel deck of 3 m/s.
- » Using ELR rope with a maximum age of 5 years.
- » A transfer height from deck to ACX of at least 20 m.



D.03 PERSONNEL LIFTING

The ACX Ascender, when used to lift people, must be used with personal protective equipment approved for work at height, rope access and/or rope rescue.

Basic requirements:

The rope system must consist of a primary work rope system and a secondary backup system.

For personnel lifting the primary rope used in the Ascender must be approved to *EN1891 A* and have a diameter of 11 mm (7/16") and the backup system must fulfill the respective requirements.

Each system must be connected to an anchor that meets the appropriate personal lifting requirements. A competent person shall judge if the anchor points are sufficient and safe to use.



DANGER

DO NOT USE the Ascender without a backup system. Take particular care of the suitability of the system when lifting more than one person.

D.04 PERSONNEL SAFETY CHECKLIST

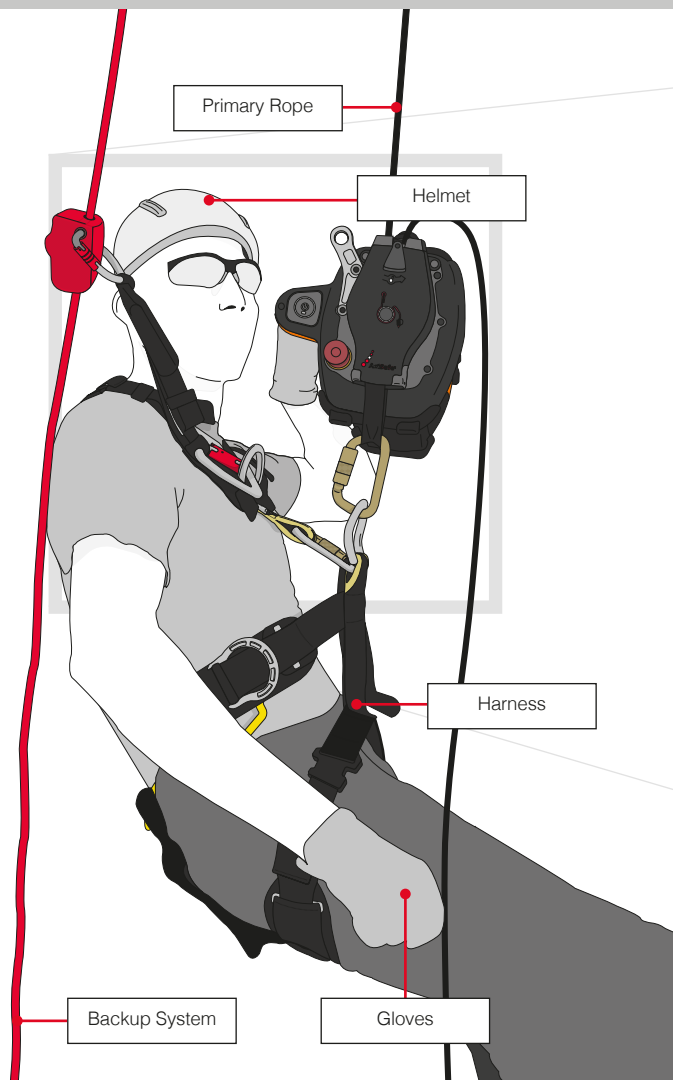
Before use make sure that you:

- ✓ Check all equipment and components
- ✓ Wear appropriate clothing and tie back any loose clothing or hair
- ✓ Do not swing excessively while descending/ascending
- ✓ Only use the Ascender if you have successfully completed SKYLOTEC training
- ✓ Have an emergency plan in place

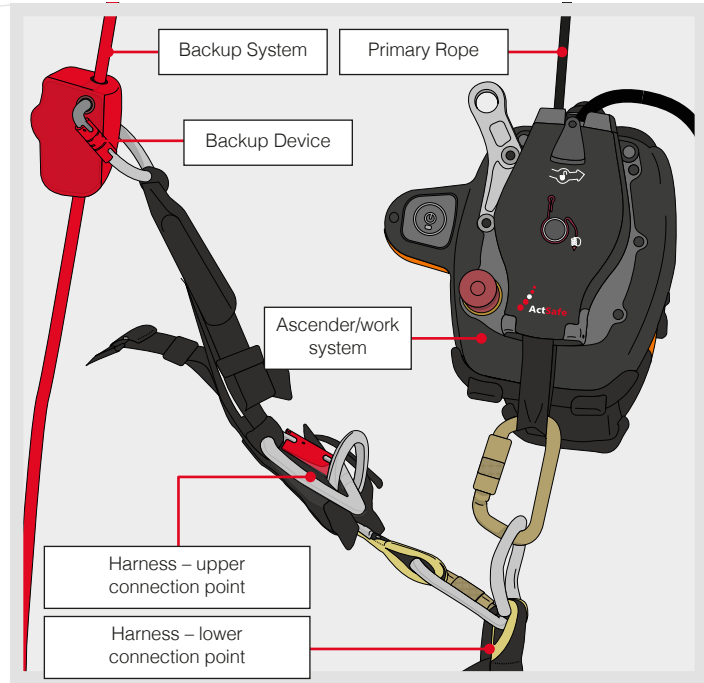


Note

For personal lifting the supplied SKYLOTEC Karabiner may be replaced with any other *EN362* connector (or any other approved lockable connector, Non EU countries). All other parts of the Ascender shall only be replaced with original SKYLOTEC parts by an SKYLOTEC-approved service engineer.



2-Rope system



RECOMMENDATION

A work seat is recommended for comfort and safety.



Note

When driving the Ascender the operator must wear a fall arrest harness that is also suitable for work-positioning/rope access.

D.05 PERSONNEL LIFTING SETUP

Displayed here are the four standard personnel lifting setups that are suitable for use with the ACX Ascender. They are shown for illustration purposes only. For further guidance, please contact your local SKYLOTEC supplier or SKYLOTEC directly.

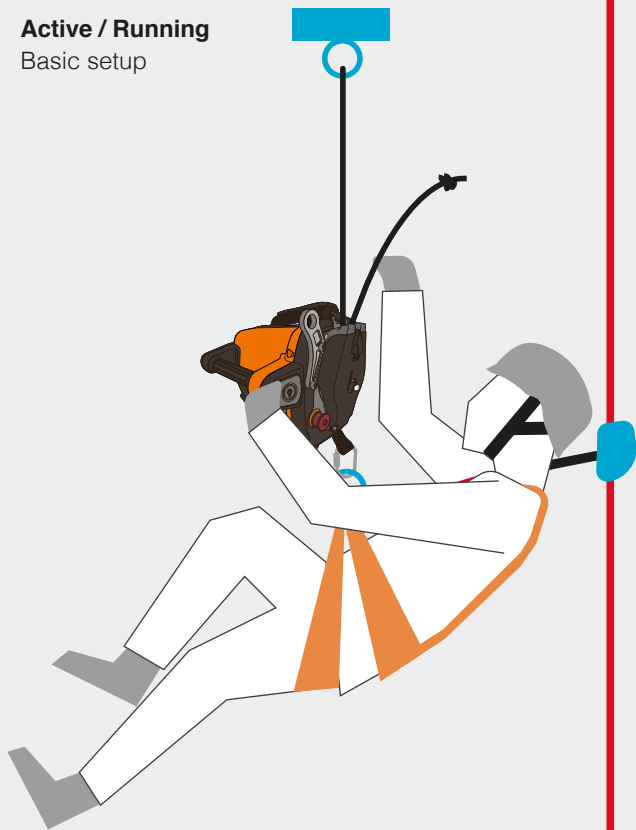
i RECOMMENDATION

Use different color ropes for different rope systems to improve safety.

! CAUTION

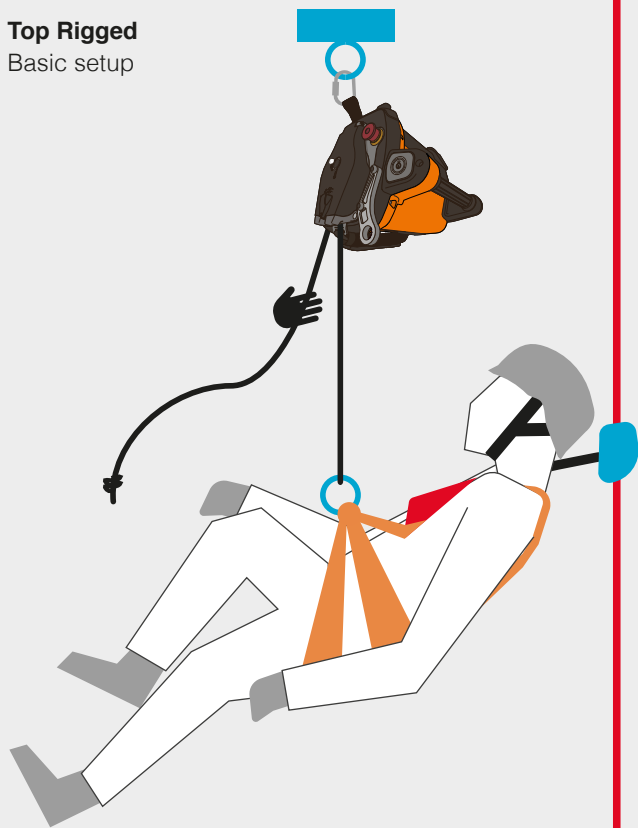
Always hold the unloaded rope when the Ascender is rigged to an anchor.

Active / Running Basic setup



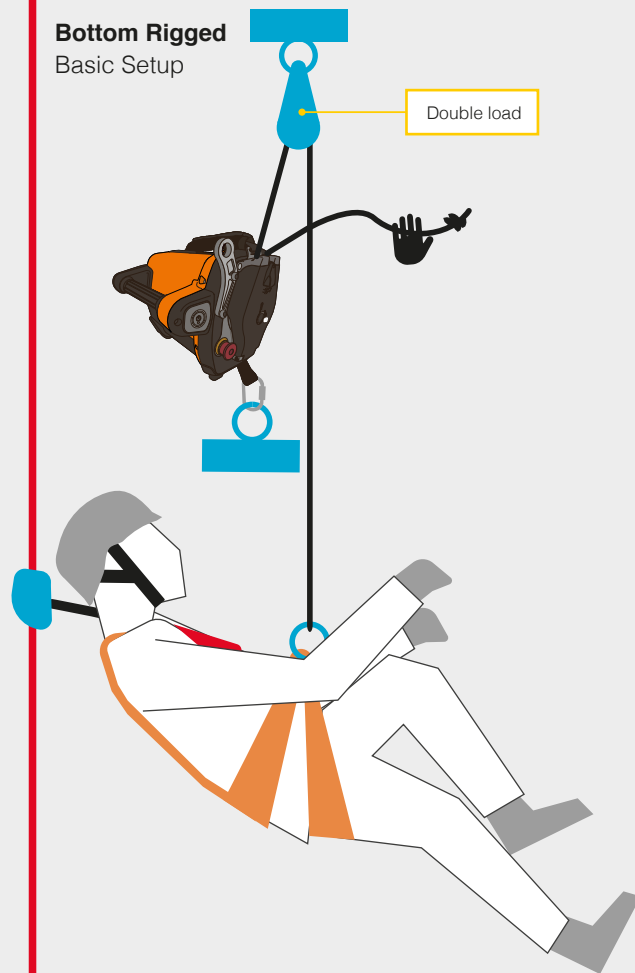
Top Rigged

Basic setup



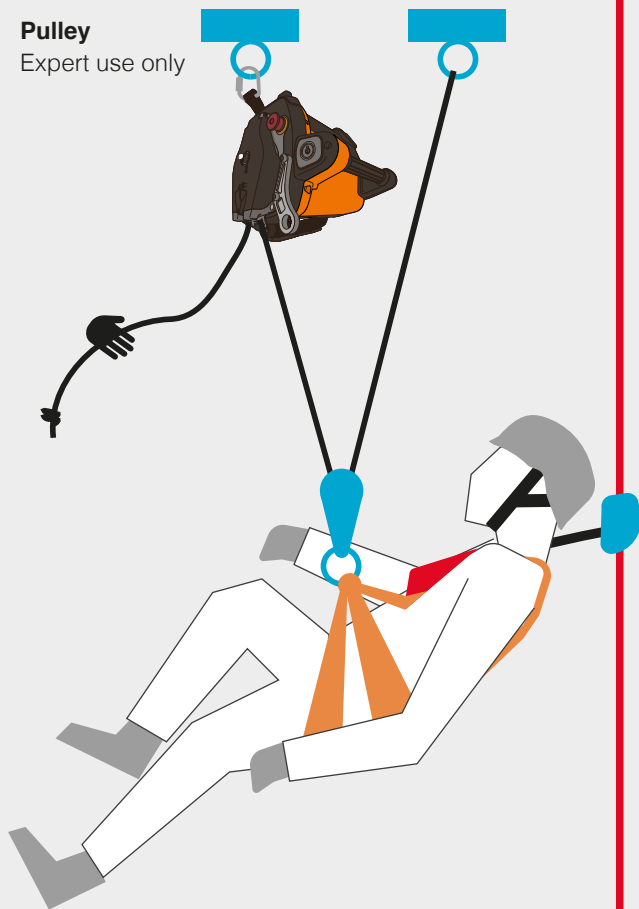
Bottom Rigged

Basic Setup



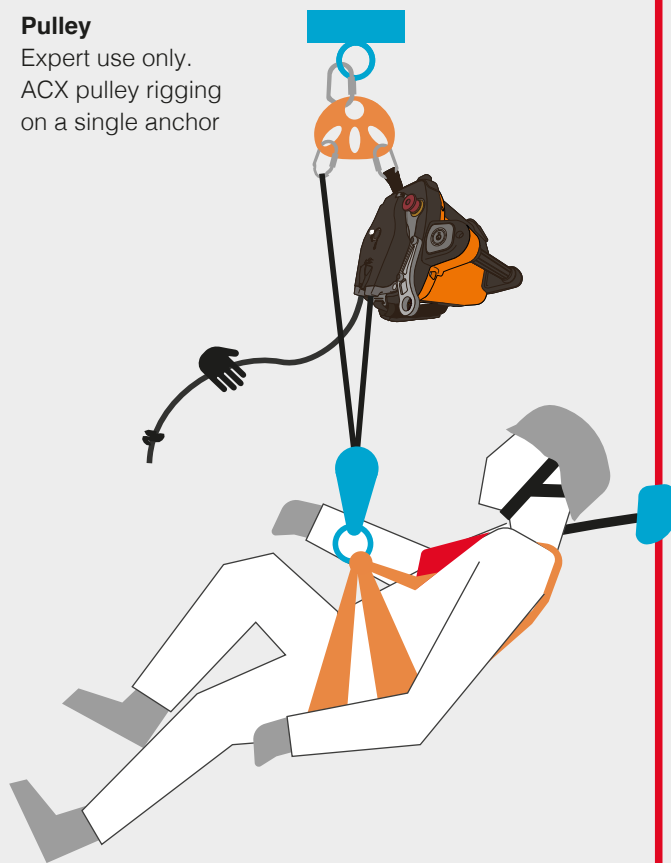
Pulley

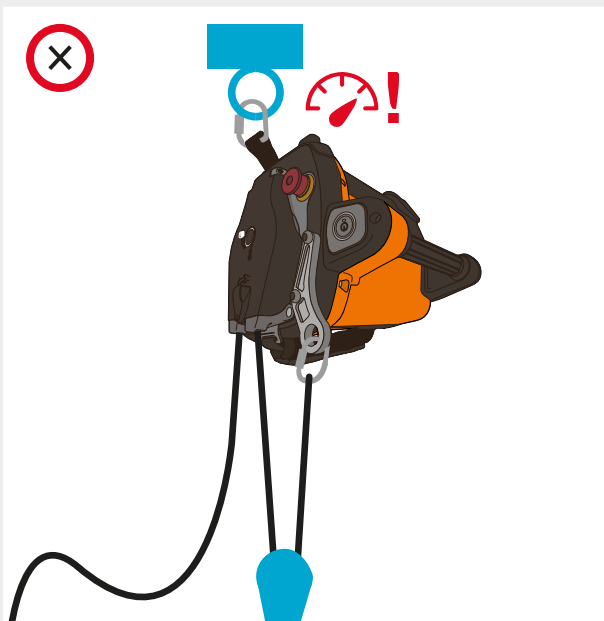
Expert use only



Pulley

Expert use only.
ACX pulley rigging
on a single anchor



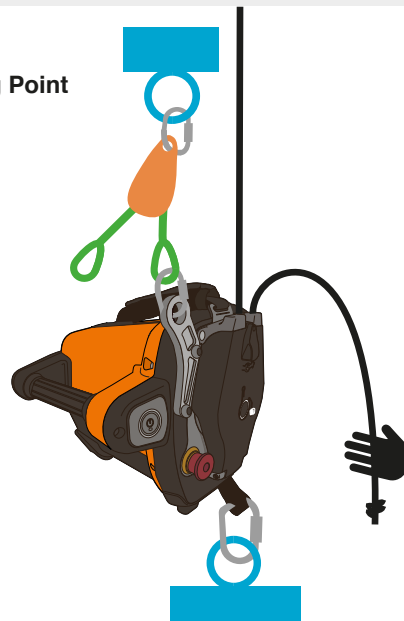


DANGER

Do not use the Ascender Positioning Point as an anchor extension for making pulley systems as this would risk double-loading the frame plate, Sling Bolt and Connection Sling with the risk of having an insufficient factor of safety on the Connection Sling.

Ascender Positioning Point

Correct use



Note

This setup can be used in cases where the Ascender is rigged to an anchor and the operator wishes to avoid the Ascender dropping when the rope becomes unloaded. However, the Ascender must be allowed to rotate freely while suspended.

D.06 EQUIPMENT, MATERIAL AND TOOL LIFTING

The ACX Ascender is, in combination with the Equipment Lifting Rope (ELR), approved under the Machinery Directive as an equipment lifting system provided that all other equipment used also meets lifting requirements.

The lifting system must be connected to an appropriate anchor that meets requirements for load lifting anchors (a competent person shall judge if the anchor is sufficient and safe to use).

i RECOMMENDATION

Lifting operations are ideally performed with a 3 person team. A lifting supervisor, a slinger for attaching loads and an Ascender operator.

✓ Note

For equipment lifting the supplied SKYLOTEC Karabiner may be replaced with any approved shackle with a minimum WLL of 0.5 t. All other parts of the Ascender shall only be replaced with original SKYLOTEC parts by an SKYLOTEC-approved service engineer.



D.07 BASIC LIFTING SAFETY RULES



Always keep an eye on the load while lifting



**Avoid excessive inching
(i.e. short pulses of the motor)**



**Do not exceed the Safe Working Load (SWL)
of the entire lifting system**



Stay clear of the load whilst lifting



Do not try to lift fixed or obstructed loads



Do not stand under the suspended load



Do not side-pull loads



**Use hand signal or radio communications
during lifting operation**

D.08 LIFTING SETUP

Displayed here are the four standard lifting setups that are suitable for use with the ACX Ascender. They are shown for illustration purposes only. For specific guidance, please contact SKYLOTEC or an SKYLOTEC distributor.



CAUTION

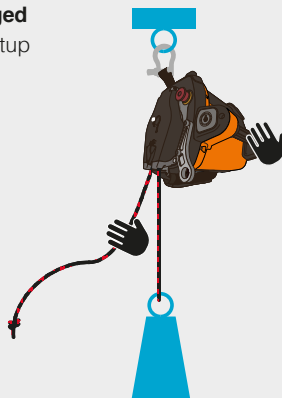
DO NOT let the rope become obstructed or blocked when going into the Ascender.



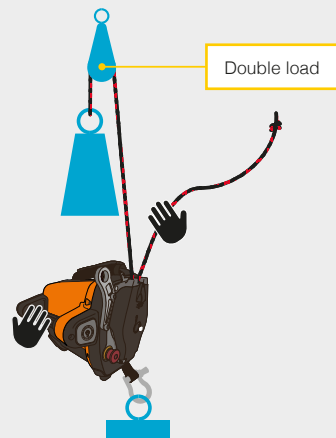
Note

The Ascender operator should, at all times, control the unloaded rope during lifting operations to avoid the rope from twisting when running into the Ascender.

Top-rigged
Basic setup



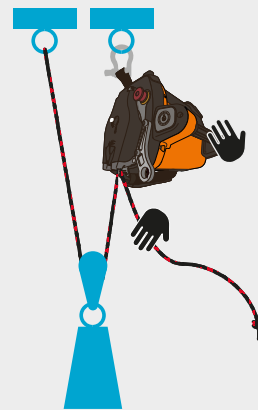
Bottom-rigged
Basic setup



Running Ascender
Expert use only



Pulley
Expert use only





D.09 SKYLOTEC TRAINING NETWORK

The SKYLOTEC ActSafe Power Ascenders are extremely versatile high-tech lifting tools that are designed for use in demanding environments.

Working with these Ascenders requires experience, competence and a thorough understanding of its possibilities and limitations. Therefore, training is essential.

We offer the SKYLOTEC training programme through our network of highly competent instructors, who are specialists in their respective field of operation and will help you get the most out of your SKYLOTEC Ascender.

SKYLOTEC training is available for different skill levels and fields of application and can be provided on site or in training centres all around the world. Get in touch with your local distributor or with SKYLOTEC to learn more about training possibilities.

Operator lifting

SKYLOTEC training is developed to offer a modular system with the aim to meet the level and needs of the customer. At the end of each training course the operator will be able to use the Ascender System in a safe and appropriate manner. For bespoke training solutions contact SKYLOTEC or the SKYLOTEC Vertical Rescue College.

SKYLOTEC PERSONAL LIFTING

Experience: Hold a valid work at height certificate.

Duration: Minimum 2 days

This is a modular training for future Ascender operators to give them the knowledge and skills for using Ascenders for designated tasks. The training outline and duration will vary upon the skill level of the participants.

Equipment lifting

SKYLOTEC EQUIPMENT LIFTING

Experience: Delegate should have completed training for working at height and must meet statutory training requirements for the lifting of loads.

Duration: 5 hours

This training is intended for specialist workers who will use the Ascender as their everyday equipment-lifting tool.



BATTERY CARE

The Ascender Battery	E.01
Performance	E.02
Portable Power Supply	E.03
Battery charging	E.04
Battery Status Indicator	E.05
Descending on a full Battery	E.06
Connecting and disconnecting the Battery from the Ascender	E.07
Storage and transportation	E.08
Battery lifetime and disposal	E.09

E

SKYLOTEC Ascenders use specially designed lithium-based batteries with a very high energy density and are therefore very compact, light-weight and extremely powerful. Due to the high energy the batteries contain, it is of utmost importance that they are treated with care and that the user has read the following section with attention. This is for your own safety, but also for optimal Battery life and performance.

E.01 THE ASCENDER BATTERY

SKYLOTEC recommends users to follow the Battery care guidelines below for optimal lifetime and performance:

- ✓ Battery can stay connected to ACX during transport or short term storage (1 week). For longer storage, disconnect the Battery and do a maintenance charge every 3 months
- ✓ Always charge batteries as soon as possible after use
- ✓ Disconnect batteries from the charger after charging
- ✓ Always store batteries fully charged
- ✓ Store batteries between 5 °C (41 °F) and 25 °C (77 °F)



DANGER

Not following instructions may result in **DAMAGE TO PROPERTY, SERIOUS BODILY INJURY OR DEATH.**



Note – Battery lifetime

Under normal service conditions it is expected that the Battery will last up to 5 years. The lifetime is dependent on the intensity of use, how much load is lifted and the operational temperatures.

See also section E.09.



RECOMMENDATION

During operations, secure the battery with a tool lanyard between the Battery Strap and the Carry ing Handle, or use the Protective Cordura Cover to help prevent accidental battery releases.

General guidelines and warnings

- » Battery charging must be conducted in a safe area away from combustible or other flammable materials
- » Do not charge the Battery unattended
- » When hot, allow the Battery to cool down to room temperature before charging
- » Immediately remove the Battery or charger from service:
 - If there is visible damage to the housing, cables or connectors, including the Battery Connectors on the Ascender
 - If the Battery has been dropped as there may be internal damage that isn't visible
 - If the Battery emits an unusual smell, feels hot, produces smoke, changes shape, or appears abnormal in any other way. Since a delayed reaction can occur, observe the

Battery for a minimum of 15 minutes in a safe area and away from any combustible material

- » Only use the correct SKYLOTEC ACX Battery Charger. If using the High Capacity Battery (HCB) then the HCB Charger must be used.
- » Do not disassemble or modify the Battery in any way. The Battery contains safety and protection electronics, which, if damaged, may cause the Battery to generate heat, explode or ignite
- » Do not expose the Battery to water

Battery Management System (BMS)

The ACX Batteries have built-in safety electronics which constantly monitor and manage the charging levels, temperature and energy output of all the cells in these batteries. The BMS is designed to shut down the Battery temporarily in case of overheating or

overcharging to avoid battery damage and prevent the Battery from becoming unstable or catching fire. In case of a too low charge (deep discharge) or worn out battery cells, the BMS may shut the Battery down permanently. This is to prevent the Battery becoming unstable and dangerous to the user.

When used and charged correctly, the BMS will increase the safety and service life of the Battery substantially. The BMS cannot protect the Battery from severe misuse as mentioned earlier. Follow the SKYLOTEC Battery care instructions to enable a long battery life.



DANGER

Do not use any other battery chargers as they can damage the Battery and may create toxic gases which cause a fire.

E.02 PERFORMANCE

Ascender Performance

When using the High Capacity Battery (HCB) the Ascender has a lifting capacity of up to 220 kg (485 lb). The distance is dependent on the lifted load and temperature of the environment. The optimal operating temperature range is between 5 °C (41 °F) and 35 °C (95 °F). The maximum temperature range is from -10 °C (14 °F) to 40 °C (104 °F); the Battery performance will be greatly affected in these extreme conditions. See chart opposite for detailed information on continuous ascending. While descending the battery accepts charge from the ascender which then increases the ability to ascend further.

Battery Capacity

Low temperatures:

The capacity of the Battery is affected at temperatures below 5 °C (41 °F) which will result in an initial loss of lifting performance (speed) and will affect the lifting distance. The Battery will behave as if it wasn't fully charged but will warm itself during the first minutes of operation. Lifting performance is regained but there will be a loss in distance depending on the temperature of the environment.

High temperatures:

Battery performance will be affected by temperatures over 40 °C (104 °F) which will result in high internal battery temperatures and therefore in a reduced lifting distance. In case of the Battery overheating the BMS is designed to shut the Battery off until the Battery has cooled to operating temperature.



RECOMMENDATION

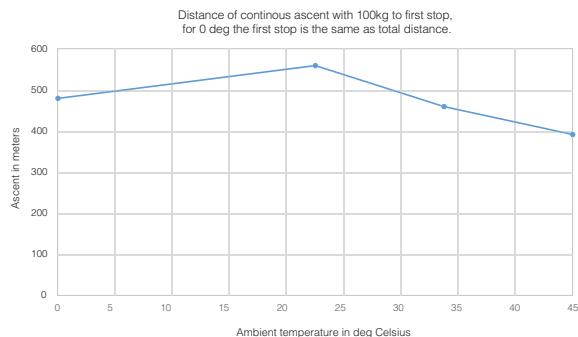
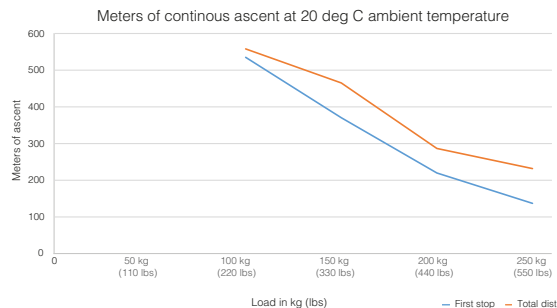
In cold environments, maintain optimal Battery temperature and performance by keeping the Battery in the transportation box as long as possible.



Note

Initial lift speed capacity will be limited with a cold Battery. It is only possible to ascend at lower speeds until the Battery warms up and normal performance can be expected.

There is a difference in performance between old and new Batteries, all figures are based on new Batteries.



Note

All values on this page apply to operating temperatures. Ascenders and especially batteries should be stored between 5 °C (1 °F) and 25°C (77°F) for optimal performance and service life.

For more info see section E.08.

E.03 PORTABLE POWER SUPPLY

SKYLOTEC Portable Power Supply

The SKYLOTEC Portable Power Supply is a good alternative to batteries, especially for Ascender operations with a lot of lifting and lower distance or in extreme temperatures. The following lifting distances can be achieved at 20 °C (68 °F):

100 kg (220 lb) → 500 m (1640 ft)

200 kg (440 lb) → 150 m (492 ft)

The limiting factor is the Ascender temperature. The Ascender motor runs hot when lifting heavy loads over longer distances, especially in hot environments where the heat can not be dissipated easily. In case of overheating the Ascender may be shut off temporarily to protect the motor from any damage.

E.04 BATTERY CHARGING

The ACX Battery can be charged at any charging level, no 'memory effect' will occur. It is important that the batteries are charged with the correct SKYLOTEC ACX Charger.

The charging time is dependent on the charge level of the Battery, and the maximum charging time is 90 minutes from empty to full.

During charging the current charging level is displayed by the blinking 4 LEDs on the Battery, and also the LCD display on the HCB charger shows the percentage charged.

The Battery is fully charged when the LCD on the charger displays "FULL." All 4 LEDs on the battery will turn off.

1. Connect the Charger to mains supply.
2. Connect Battery to charger.
3. Constant charging controlled by the BMS. (Maximum 90 minutes charge).
4. Disconnect Battery from charger when LEDs are extinguished and LCD on charger shows FULL.
5. Disconnect Charger from main supply.



CAUTION

Inspect before charging the Battery, the Charger Cables and the insulation on the socket to avoid risk of electric shock.



Note

Charging must be carried out in a dry area.

Disconnect the charger from the power source when not in use.

Ensure the correct charger is used. The High Capacity Battery (HCB) must only be charged with the HCB charger.



DANGER

Do not touch the Battery Charger during charging with wet hands or disconnect the plug by pulling the cord.

CHARGER FOR HCB

The HCB charging time is 90 mins for an empty battery. The Battery Care and Handling Guidelines remain unchanged.

- 1. Only the original battery and original charger (pictured TOP) will work together.
- 2. Only the HCB battery and HCB charger (pictured BOTTOM) will work together.
- 3. The original ActSafe Battery will not work with the HCB Charger.



Note

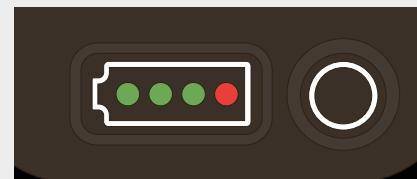
Ensure the correct charger is used.



E.05 BATTERY STATUS INDICATOR

The Battery Status Indicator is positioned at the back of the Battery and can be activated by pushing the button next to the LEDs. The Battery Indicator has 4 LEDs each representing 25% charge.

LEDs	Capacity
1 red, 3 green	75-100%
1 red, 2 green	50-75%
1 red, 1 green	25-50%
1 red	0-25%



E.06 DESCENDING ON A FULL BATTERY

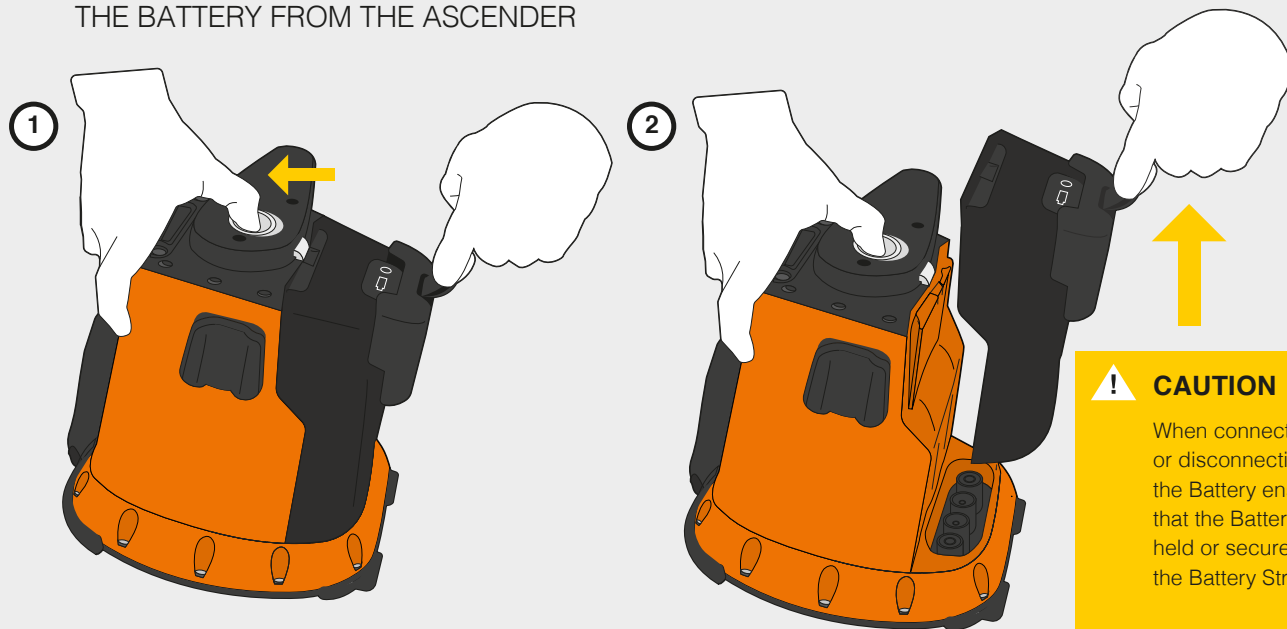
The Ascender lifting system regenerates energy while descending which recharges the battery. When descending with a fully charged HCB battery, it is possible to descend at the maximum load up to 100 m as a standard procedure. If a greater lowering distance is required, then the battery should be reduced to 75% charge or less. This can be achieved by running full speed without load for 15 minutes to safely discharge the battery sufficiently.

In the unlikely event of overcharging the battery, the speed of descent will be limited and it will become very slow to protect the system from the energy being generated.

- » Any distance that has been ascended can always safely be descended on the same battery.
- » Only use Emergency descent as an emergency measure, using emergency descent wears the brake disc and will lead to higher maintenance costs.

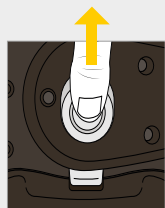
- » The battery doesn't have to be fully charged if you know that the next day will start with top down work, the charging process can be aborted at any given point at a charging level suitable for next job.

E.07 CONNECTING AND DISCONNECTING THE BATTERY FROM THE ASCENDER



! CAUTION

When connecting or disconnecting the Battery ensure that the Battery is held or secured by the Battery Strap.



Disconnecting the Battery

- 1** Hold the Battery and slide the release catch upwards.
- 2** Release the Battery by pulling the Battery Strap with your finger or a karabiner.

Connecting the Battery:

Slide the Battery onto the Ascender and ensure that the Battery is locked.
The Battery Lock must snap into its position (click).

E.08 STORAGE AND TRANSPORTATION

- » All lithium-ion batteries degenerate over time, even if they are properly stored. Disconnect the Battery when stored for longer periods with 100% charge
- » If storing a Battery for a long time, re-charge the Battery every third month
- » Ideally store the Battery at room temperature of 5 °C (41 °F) to 25 °C (77 °F). Storing at higher temperatures will result in a loss of performance and a shortened service life
- » Do not store the Batteries at temperatures higher than 60 °C (140 °F) , as this will cause permanent damage to the Battery and possibly result in fire
- » The user assumes total responsibility for all risks associated with lithium-based battery technology
- » Batteries stored in temperatures below 5 °C (41 °F) will show severe

loss in performance during use, but will not sustain any permanent damage because of the storage in low temperatures

- » Product warranty is limited to original defects in material and workmanship. The Warranty does not cover collateral damage



CAUTION

Storing an empty Battery or a Battery with low charge level can damage the Battery irreversibly (deep discharging).



Note

Batteries are fully regulated as Dangerous Goods (Class 9 UN3480 Lithium Ion Batteries) and must be handled and shipped accordingly. A defective Battery must not be shipped.

E.09 BATTERY LIFETIME AND DISPOSAL

The Battery lifetime is dependent on a lot of different factors such as: intensity of use, charging cycles, storage temperature etc. For this reason it is very difficult to give a specific indication on the service life of a Battery, see also E.01. The Battery Management System or BMS constantly monitors the condition of all the cells in the Battery. For user safety, the Battery is designed to shut down automatically if the cells become too worn out. In this situation the Battery can no longer be used. Do not incinerate or dispose of the Battery in your normal waste system. Dispose of the Battery at a recycling centre as per the appropriate regulations.





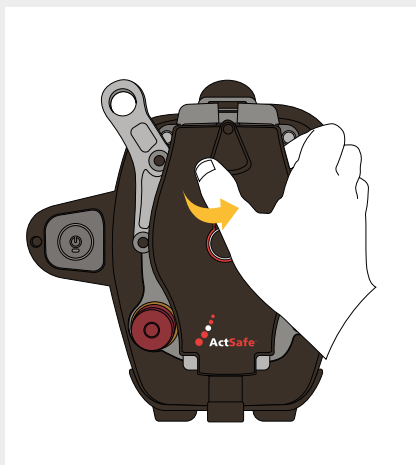
HOW TO USE THE ASCENDER

Connecting the rope	F.01
Ascender activation	F.02
Ascent and descent	F.03
Emergency descent	F.04
Emergency Stop	F.05
Twisted rope and rotation	F.06
Remote Control	F.07
Remote Control operation	F.08
Transportation	F.09
Storage	F.10
Checklist before use	F.11

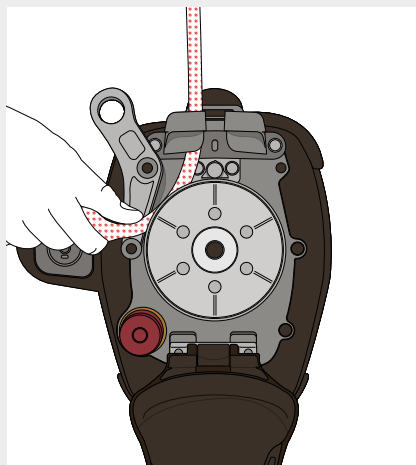
F.01 CONNECTING THE ROPE

The Ascender must be switched off while loading the rope.

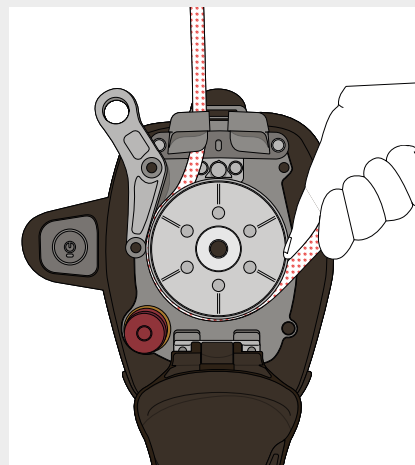
Push the Emergency Stop to ensure that the Ascender is switched off.



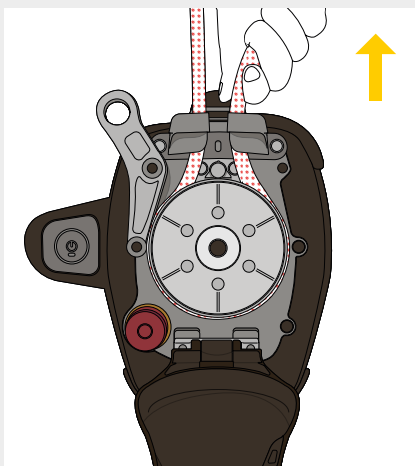
1. Open the Rope Cover by pulling on the Rope Cover and pushing the Rope Cover Lock to the right.



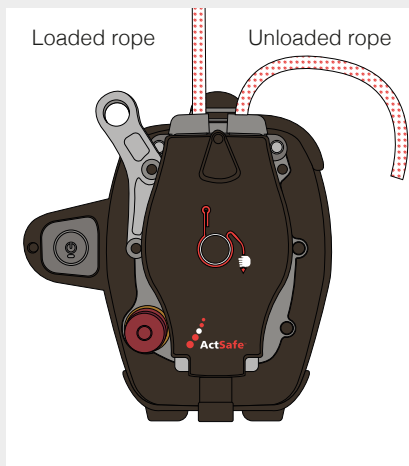
2. Feed the rope counter-clockwise through the slot in the Rope Guide and around the Rope Grab.



3. Continue feeding the rope in a counter-clockwise direction.



4. Feed the rope through the slot in the Rope Guide. Tighten the rope a little. The rope will be pulled into the Rope Grab and the Rope Cover can be closed more easily.



5. Close the Rope Cover and ensure it is locked. The Rope Cover lock should snap into its position. A distinct 'click' should be heard. Never attempt to close the Rope Cover with force.

! CAUTION

Always check that the rope is attached correctly and has a stop-knot on the other end of the rope. Failure to attach the rope correctly could result in damage to the rope and loss of grip on the rope.

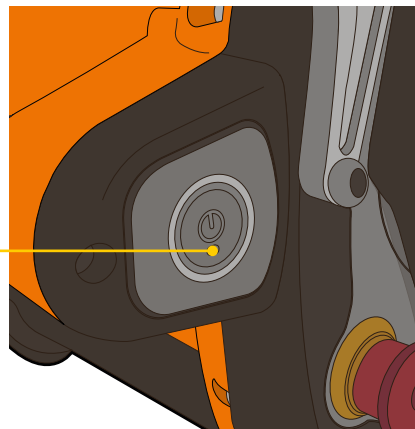
Load the rope when the Emergency Stop of the Ascender is activated to avoid accidental activation by the Remote Control.






Ensure that the Rope Cover is locked into position.

F.02 ASCENDER ACTIVATION

To activate the Ascender check that the Emergency Stop button is pulled out. Switch the Ascender on by pushing the Power Button for 2 seconds. The green indicator LED starts blinking and the Ascender performs a self-test, which can take a few seconds.

The Ascender is ready to use after you hear a distinct clicking within the Ascender (brake test) and the green LED indicator is lit continuously. The Ascender will remain on for 4 hours after its last operation.



-  **BLINKING GREEN** The Ascender is starting up and performing self-test
-  **GREEN** The Ascender is on and ready to use
-  **BLUE** The Ascender is being operated by the Remote Control
-  **ORANGE** Overheat indication shown when Power Button is pushed in case of Ascender overheating
-  **RED** A fault has been detected and the Ascender will not operate. Restart the Ascender. If the red light remains lit on restart, check the troubleshooting guide



Note

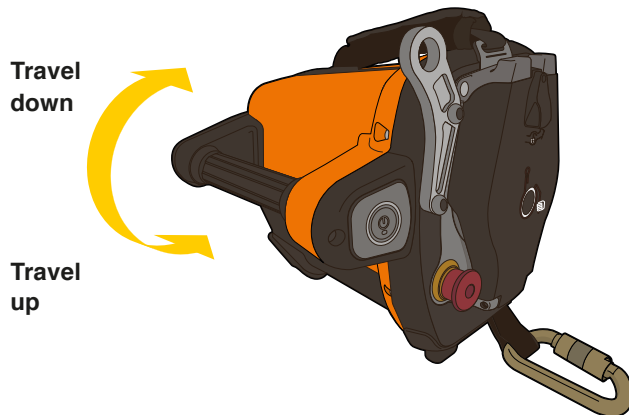
The Ascender has no standby function, the Ascender can only be switched on by pushing the Power Button.

F.03 ASCENT & DESCENT

To move the Ascender up the rope, pull back on the Throttle. When released the Throttle will return to the neutral position and the Ascender will stop moving.

To move down the rope, push the Throttle in the opposite direction.

Adjust the speed according to the circumstances, be aware and use common sense.



CAUTION

Do not hold on to the loaded rope just above the Ascender, as there is a risk of injury.



RECOMMENDATION

Stand straight beneath the Anchor Point in order to avoid a pendulum movement when starting off the ground.



Note

Make sure that the unloaded rope runs in a controlled manner out of the Ascender. Take special care feeding the loose rope into the Ascender when descending.

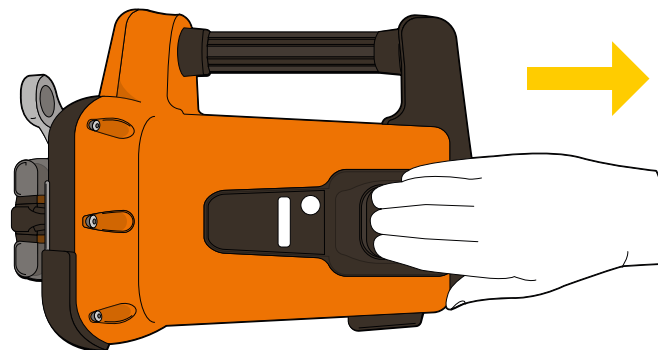
The in-built ACX electronic monitoring system will prevent lifting loads over 250 kg (550 lb).

F.04 EMERGENCY DESCENT

The emergency descent is **ONLY** to be used to get down in a safe and controlled manner in case of an Ascender failure.

The Emergency Descent Lever enables a mechanical release of the Ascender brake, and it should **NEVER** be used during normal operation because emergency descent can, in rare cases, damage the Ascender.

- » Only use Emergency descent as an emergency measure, using emergency descent wears the brake disc and will lead to higher maintenance costs.
- » The emergency descent speed is user regulated but should be kept to slower than the maximum ascent speed. Using the Emergency descent bypasses many of the electronic safety systems and you risk damaging the Ascender or battery if higher descent speeds are used. Such damage will not be covered by warranty.
- » Emergency descent shall not be practiced over long distances for training purposes, one or two meters at low speed is enough to understand how it works.



Emergency descent procedure:

1. Hold the dead rope in one hand.
2. Descend by gently pulling the lever backwards as shown.
3. Stop the descent by letting go of the descent handle.



CAUTION

An emergency descent can result in serious damage to the Ascender. Only use the emergency descent in case of an emergency.

If you do need to descend manually, control your speed and hold the dead rope in one hand while descending.



RECOMMENDATION

Always try to restart the Ascender first before using the emergency descent method.



NOTE

In case the Ascender is stopping during ascent because of an empty Battery, it is still possible to descend whilst using the Throttle.

Take care not to engage the Battery Release when using the emergency descent since this could result in disconnecting and dropping the Battery.

F.05 EMERGENCY STOP

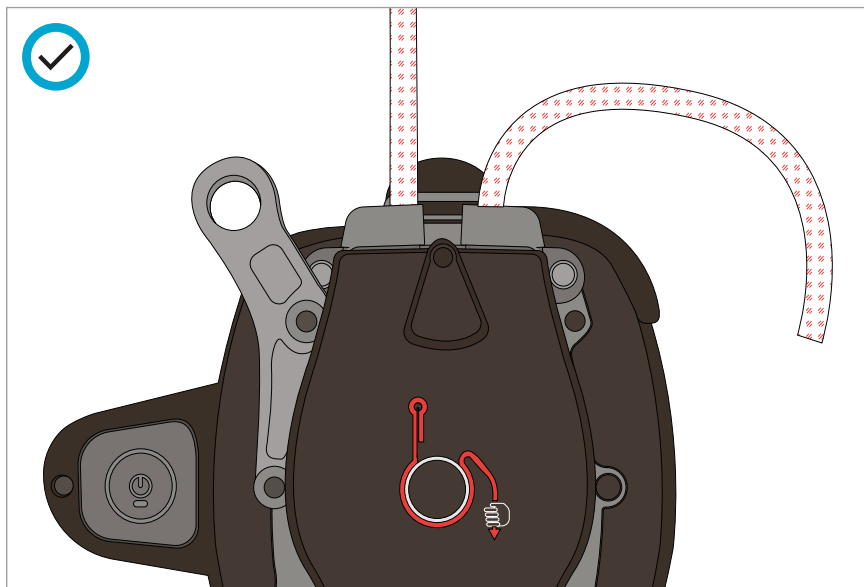
1. Press the Emergency Stop to immediately turn the Ascender off.
2. Reset the Emergency Stop by pulling out the button.



✓ Note

The Indication LED will turn red for a short moment and then switch off when the Power Button is pushed while the Emergency Stop is activated. The Ascender cannot be activated as long as the Emergency Stop is pushed in.

F.06 TWISTED ROPE AND ROTATION



Ensure, especially when descending, that the rope runs untwisted into the Ascender. Twisted ropes caught into the Rope Guide can cause a rope jam and can, in rare cases, result in rope damage.



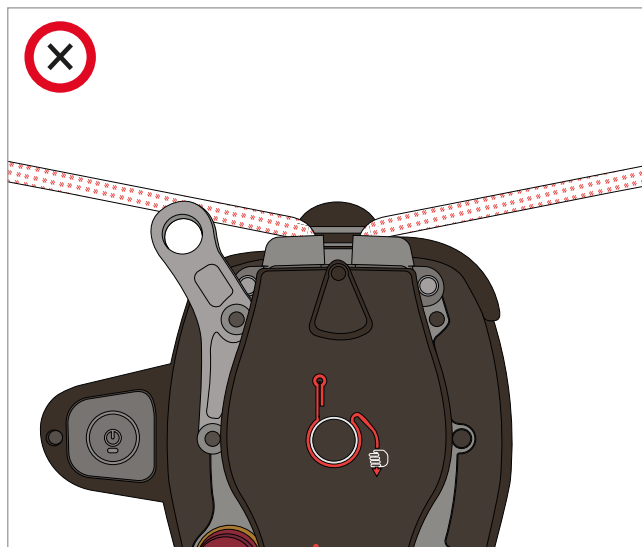
RECOMMENDATION

When descending, hold the rope entering the Ascender to prevent it from running twisted into the Ascender.

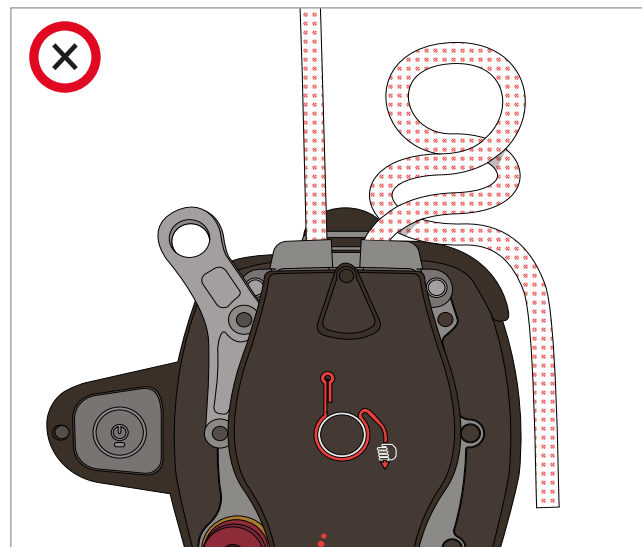


CAUTION

When descending, make sure the rope is fed neatly into the Rope Grab so that there are no kinks or twists in the rope. Take special care when using long ropes to prevent twists or kinks. Good rope management is ESSENTIAL.



The dead rope must never be loaded (in order to avoid side loading on the Rope Guide). Do not build tramways using the primary rope as shown in the picture.



Stop immediately when a rope twist is observed, untwist and organise the rope before continuing.

F.07 REMOTE CONTROL

The Remote Control can be used for a multitude of applications for both personnel and equipment lifting.

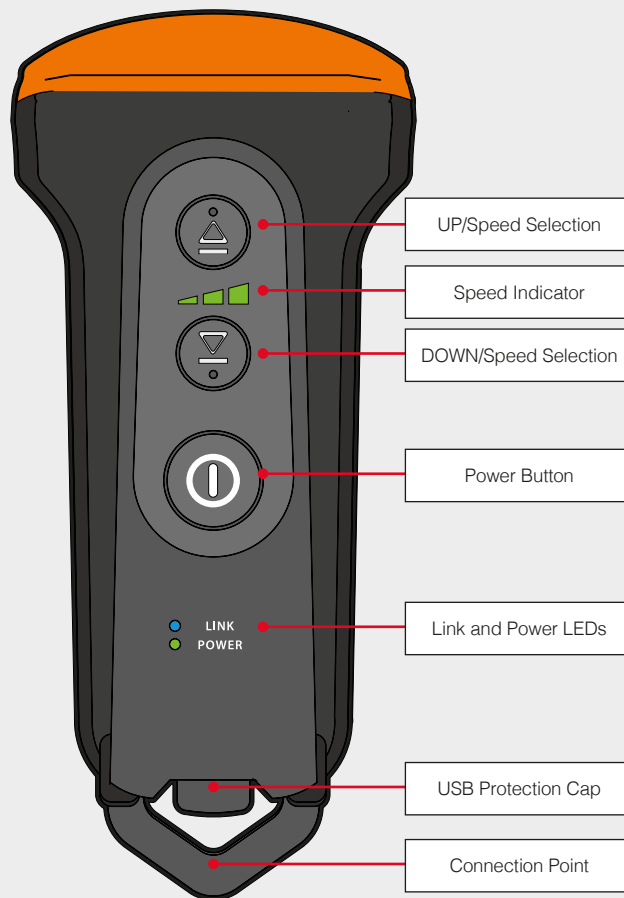


The ACX Ascender can be operated by a Remote Control to a distance of up to 150 metres (492 ft) in direct line of sight.



The Remote Control will interrupt the throttle control on the Ascender when used. The operator of the Ascender can take back control by using the throttle.

If the Remote Control is not used for 10 seconds, control is automatically returned to the Ascender. Control is instantly returned to the Ascender when the remote is turned off with the Power button.



F.08 REMOTE CONTROL OPERATION

1. Activation and connection



Activate the Remote Control by pushing the Power Button.



The green 'POWER' LED will show and the blue 'LINK' LED will start to blink for a few seconds whilst a connection is established with the Ascender.



Once connected, the blue 'LINK' LED on the Remote Control will be lit continuously.

2. Take control of the Ascender



By pushing either the 'UP' or 'DOWN' button the Remote Control will take over the control of the Ascender and the Ascender will stop immediately.



—
Short
press



The green LED on the Ascender will turn blue to indicate control has been taken over by the Remote Control.



3. Set the Ascender speed



Select between 3 speeds in both ascent and descent: 20%, 50% and 100%.



The speeds can be set by a short push of the 'UP' or 'DOWN' button and the LED bar will indicate the selected speed.



—
Short
press

4. Operate the Ascender



Once the speed is selected, holding down either the 'UP'



or 'DOWN' button will then activate the Ascender at that speed.

Hold
down

5. De-activation



Switch off the remote control. The Remote control will switch itself off after 30 min of its last use.



CAUTION

The Remote Control will only work with the Ascender it has been delivered with. The serial number of the assigned Ascender is indicated on the Remote Control. In case of using multiple Ascenders, mark your Remote Controls to avoid any confusion.

When using the remote control, make sure a distance of at least 20 cm (8") is kept between the remote control and your torso and/or head. Contains FCC ID: SQGBT700.



Note

Remote Control does not work if Emergency Stop is pressed or if the Ascender is switched off. Once the Ascender is switched back on again the Ascender can be used manually. The remote connection needs to be re-established by turning the Remote Control off and on again.

Remote Control Battery



The Remote Control unit is equipped with an internal battery which is charged via the supplied USB cable. Complete charging will take up to 150 minutes via a computer, or 75 minutes with the supplied adaptor. The USB Connection Point can be found on the bottom of the Remote Control under the protection cap that can be unscrewed.



The power LED on the Remote Control will turn red at 20% charge. The power LED will flash during charging and will be steady lit (green) once charging is completed.



CAUTION

Make sure that the Remote Control has visual contact with the Ascender to ensure safe operation and maximum range.

When using the Remote Control, should the unloaded rope be held by an operator to ensure that the rope can run unhindered into the Ascender while lowering. Uncontrolled rope running into the Ascender can cause a rope jam and eventually rope damage.



RECOMMENDATION

Always use the Remote Control in combination with a stop knot at the end of the rope.

F.09 TRANSPORTATION

Carry the Ascender by the lifting handle for short walking distances.

When carrying the Ascender any further stow it in the transportation box as this will protect the Ascender from any damage. Make sure the Ascender is secured when travelling in any vehicle.

F.10 STORAGE

Always clean and dry the Ascender and the transportation box before storage. See section G for cleaning instructions.

Always store the Ascender, Batteries and the Remote Control dry at a temperature between 5 °C (41 °F) and 25 °C (77 °F). For more detailed Battery storage information, see section E.09.



Note

The Ascender Batteries hold over 100 Wh of power and are therefore fully regulated as Dangerous Goods (*Class 9 UN3480* Lithium Ion Batteries) and must be handled and shipped accordingly. Contact your SKYLOTEC distributor or SKYLOTEC directly for further details.



CAUTION

Always store the Battery fully charged.

The Battery can stay connected to ACX during transport or short term storage (1 week). For longer storage, store the Battery disconnected and perform a maintenance charge every 3 months.

F.11 CHECKLIST BEFORE USE

Always check the Ascender before every use. Check the Ascender thoroughly and in accordance with your training and this manual.

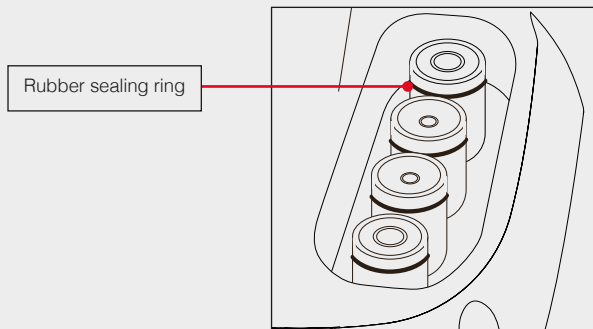
If you are in any doubt about the condition of the Ascender, do not use it and contact your SKYLOTEC supplier or SKYLOTEC directly.

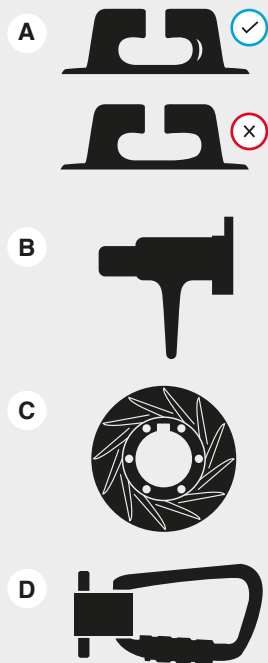
✓ Inspection of ACX Battery Pack

- » No damage to Battery Housing
- » Connector pins clean and not damaged
- » Battery charged
- » Battery Strap present

✓ Inspection of ACX Ascender

- » Check the Ascender housing for cracks or severe damage
- » Check the Battery Connector pins on the Ascender:
 - Clean and no damage
 - Rubber sealing rings should be present (see below)
- » Slide the Battery on to the Ascender and check that the Battery is locked in its position





✓ Visual inspection of load-bearing parts

» Rope Guide (A)

Check Rope Guide for obvious damage, deformation or sharp edges. Rope Guide should not be bent and must fit neatly with the Rope Cover. Check wear indicator, this should be completely intact

» Rope Cover

Check the Rope Cover function by opening and closing it. During closing the Rope Cover must lock unhindered into its position. Check the Rope Cover further for deformation, excessive wear or any sharp edges

» Rope Wedge (B)

Check Rope Wedge for deformation or any visible damage. The Rope Wedge should be straight, sit just above the bottom of the Rope Grab and should not touch the ribs on the inside of the Rope Grab

» Rope Grab (C)

Check that Rope Grab is clean and not filled with dirt, sand, paint or any other foreign material. Check the inside for obvious damage, signs of wear or sharp edges

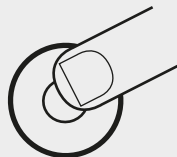
» Connection Sling and Carabiner (D)

Check Connection Sling for wear, discoloration or damage such as cuts, abrasion and contaminants (paint, glues, chemicals). Take particular note of the condition of the Titanium Sling Bolt and Carabiner Loop. Inspect the carabiner for wear, damage and deformation. Check that the Carabiner opens and locks correctly

✓ Controls check

- » Check that the Emergency Stop is pulled out and switch Ascender on. Wait for full activation of the Ascender (LED turns green)
- » Move the Throttle in both directions and ensure that Rope Grab turns smoothly in both directions
- » Check that the emergency descent is working correctly. The lever should return to neutral position when released
- » Push the Emergency Stop and check that the Ascender is switched off and cannot be activated by Power Button

For a full inspection checklist contact
info@skylotec.se



G

SERVICE & MAINTENANCE

Maintenance and cleaning
of the Ascender

G.01

Troubleshooting guide

G.02

G

Only use original spare parts and materials recommended and supplied by SKYLOTEC.

Basic Inspection Guidance for users and third party inspection:

To be used safely, each Ascender should meet following requirements at all times:

- » No obvious damage or excessive wear on Ascender and its components
- » Basic function test of Ascender including Emergency Stop and emergency descent (see section F.10)
- » 1,25 x SWL dynamic load test; descending full speed and then stop with max 10 cm (3,9") slippage
- » 1,5 x SWL static load test; no slippage allowed



RECOMMENDATION

Go through 'Checklist before use' (F.11) during every maintenance.

G.01 MAINTENANCE & CLEANING OF THE ASCENDER

Repairs, annual service and inspection shall be carried out by an SKYLOTEC-authorized service partner. More frequent inspection intervals may be required because of local regulations.

Cleaning the Ascender

- ✓ Wipe the Ascender with a wet cloth and let it dry. Do not clean the Ascender with a high-pressure cleaner
- ✓ Clean the Carabiner thoroughly, lubricate with thin oil and wipe dry
- ✓ Spray the pins with an electronic connector cleaner/lubricator when needed



RECOMMENDATION

Use the Protective Cordura Cover supplied to protect the Ascender from dirt or contamination. It also provides a secondary level of safety as it reduces the risk of accidental battery ejection.



Note

DO NOT use a high-pressure cleaner.

Corrosion and Inspection

The load-bearing parts on the front and rope grab system are surface treated for increased corrosion resistance. However, after extensive use and prolonged exposure to saltwater, corrosion can occur. Therefore, it is crucial to visually inspect these parts before each use. Special attention should be given to these parts where no corrosion at all can be accepted:

- » The lower part of the rope cover where the sling bolt is attached.
- » The front bracket.

The rope grab main shaft is sealed with a rotary seal of the same kind used for submersible IP68 machines, ensuring the gearbox is well protected. Additionally, the interior of the ACX is protected by its IP55 rating therefore exterior inspection is sufficient.

The ACX is designed for day-to-day operations with daily pre-use inspections, not for stationary offshore use. To prolong the expected lifetime of the ACX in an offshore environment, clean off any salt residue and allow it to dry before storage.

G.02 TROUBLESHOOTING GUIDE

**If you need further assistance or are in any doubt
please contact SKYLOTEC or your approved
SKYLOTEC distributor.**

PROBLEM	PROBABLE CAUSE	REMEDY
Battery does not work	Battery is flat BMS shut Battery off because of battery damage or worn out Battery Battery is too cold — below -10 °C (14 °F) Battery is too hot — above 55 °C (131 °F)	Charge the Battery Exchange Battery Let the Battery warm up Let the Battery cool down
Battery does not charge	Charger not connected Charger broken Battery is too warm red LED blinks on Battery Battery is too cold — below 0 °C (32 °F) Battery is worn out	Connect Charger to socket Change Charger Let the Battery cool down Let the Battery warm up Replace the Battery
Emergency Descent does not work	Descent Lever disconnected	Pull the descend lever gently up and lower in slowly in a neutral position. Fit the lever into the brake slot. The Lever is correctly connected when during opening a resistance is felt and the lever gets back into neutral position once released.

PROBLEM	PROBABLE CAUSE	REMEDY
No power	<p>Battery is too warm — red LED blinks on Battery</p> <p>Battery is too cold — below -10 °C (14 °F)</p> <p>Battery not charged</p> <p>Power Supply not switched on</p> <p>Too short a press on Power Button</p> <p>Emergency Stop engaged</p>	<p>Let the Battery cool down</p> <p>Let the Battery warm up</p> <p>Check Battery, charge when empty</p> <p>Activate Power Supply</p> <p>Press for 2 seconds</p> <p>Disengage Emergency Stop</p>
Power LED turns red	<p>Emergency Stop engaged</p> <p>Problem with Battery or Power Supply</p> <p>Error detected in Ascender</p>	<p>Disengage Emergency Stop</p> <p>Try another Battery or Power Supply</p> <p>Restart: LED Green — OK LED Red — Contact SKYLOTEC distributor or SKYLOTEC</p>
Remote control does not connect	<p>Ascender is not switched on</p> <p>Distance too far</p> <p>Signal interference</p> <p>Remote Control from another Ascender</p>	<p>Switch Ascender on</p> <p>Get closer to Ascender</p> <p>Get closer to Ascender</p> <p>Find correct Remote Control</p>

PROBLEM	PROBABLE CAUSE	REMEDY
Remote control does not work	Remote Control Battery is empty	Charge Remote Control
Rope Cover does not lock	Dirt in Rope Cover Dirt in locking mechanism Mechanical damage	Clean Rope Cover Clean and oil locking mechanism Contact SKYLOTEC distributor or SKYLOTEC
Rope slippage in Rope Grab	Rope is too soft Wrong rope diameter Rope is not pre-soaked (only polyamide ropes) Worn out rope grab	Use recommended rope Use recommended rope Soak rope Contact SKYLOTEC distributor or SKYLOTEC
No Response to Throttle	No power on Ascender Remote control is operating Ascender — blue power LED Too much load on the Ascender Battery not working	See 'no power' section of trouble-shooting guide Restart Ascender or wait for Remote to turn off Reduce the load to SWL or less See Battery section of troubleshooting guide



POWER ASCENDERS WARRANTY TERMS

Warranty terms

H.01

H.01 WARRANTY TERMS

SKYLOTEC Nordic AB ("SKYLOTEC") guarantees that the ACX Power Ascender ("Product") purchased has no defects in material and workmanship. This is subject to the terms of the limited warranty ("Warranty") given below.

Any claim must be made within the warranty period which is one year from delivery unless otherwise agreed.

SKYLOTEC will, through repair or replacement as appropriate in SKYLOTEC's reasonable discretion, remedy any defect that is covered by the limited warranty and notified in writing within the warranty period. SKYLOTEC reserves the right to use reconditioned parts with performance parameters equal to those of new parts in any repair performed under the Warranty.

Claim under SKYLOTEC's warranty

Claims under SKYLOTEC's Warranty may be made only by direct customers of SKYLOTEC who, upon SKYLOTEC's request, can present the original sales invoice from SKYLOTEC.

The Warranty is not transferable from one user or customer to another.

If you have purchased your product from an authorized distributor of SKYLOTEC products, please contact the distributor for warranty claims.

Warranty Limitations

The warranty does not extend to:

- (i) Products which have been modified, repaired or reconditioned by a party not authorised by the Seller;
- (ii) defects or damage resulting from failure to maintain or operate the Products in accordance with the Seller's recommendations;
- (iii) normal wear and tear;
- (iv) damages which are the result of abuse or negligence including but not limited to water intrusion, physical damage; electrical faults external to the Products, rust or corrosion;
- (v) Products for which the serial number has been removed or tampered with; and

(vi) Products to which a component or product not authorised by the Seller has been added. Repair and replacement in accordance with the warranty terms are the sole and exclusive remedies for defects. The Warranty is exclusive and no other warranties, whether statutory or implied shall apply to the Products, including but not limited to warranties of merchantability or fitness for a particular purpose. Any implied warranty that may be imposed by applicable law is limited to the warranty period.

Except as otherwise required by governing law, under no circumstances (including negligence) shall SKYLOTEC, its affiliates, and their respective directors, officers,

employees or agents be liable for any consequential, incidental, indirect, punitive, special or other similar damages, whether in action of contract, negligence or other tortious action, arising out of, in connection with or resulting from the sale or provision of any Products.





TECHNICAL DATA

Technical data

1.01

PERFORMANCE/PART	VALUE	COMMENT
Rope	Personnel Lifting – <i>EN 1891 A</i> 11 mm (7/16"), Equipment Lifting — SKYLOTEC ELR	See our website for tested ropes. Polyamid ropes should be soaked before first use. See section C.01
Safe Working Load (SWL /WLL)	220 kg (485 lb)	Maximum 2 persons
Ascent speed	0-24 m/min (0-78 ft/min)	
Descent speed	0-25 m/min (0-82 ft/min)	
Emergency descent speed	0-25 m/min (0-82 ft/min)	
Battery range	Approximately 550 m continuous ascent at 100 kg (1965 ft at 220 lb)	At 20 °C (68 °F), continuous ascending. See section E.02
Charging time	90 min	Charging time for an empty Battery
Temperature range	-10 °C (14 °F) to 40 °C (104 °F)	Values apply to ambient temperature. See E.02 for more info
Over heating protection	Yes	
Ascender weight	10.5 kg (23.2 lb)	Ascender weight with Battery is 13.7 kg (30.2 lb)
Battery weight	3.19 kg (7.03 lb)	
Dimensions	33 x 29 x 27 cm (13 x 11 x 11")	
Remote Control	Range – up to 150 m (492 ft) Radio frequency – 2.4 GHz	The remote must have visual contact with the Ascender to ensure maximum safety and range
Water/dust resistance	IP 55	
Noise level	76 dB	
Max windspeed	12 m/s (39 ft/s)	Weather conditions should be stable and favourable to not affect the safety of personnel and/or lifting operation

LOGBOOK

Initial delivery	A
Inspection	B
Replaced consumables	C
Usage log	D

A. INITIAL DELIVERY

SKYLOTEC Nordic AB

Phone: +46 31 655 660

Email: info@skylotec.se

Serial number of Ascender

Year of manufacture

Delivery date

☐

Approval for use

Stamp and Sign

Signature

B. INSPECTION

Date	Stamp and sign
Approved for use Yes <input type="checkbox"/> No <input type="checkbox"/>	
Name of Inspector	

Date	Stamp and sign
Approved for use Yes <input type="checkbox"/> No <input type="checkbox"/>	
Name of Inspector	

Date	Stamp and sign
Approved for use Yes <input type="checkbox"/> No <input type="checkbox"/>	
Name of Inspector	

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Name of Inspector	

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Name of Inspector	

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Name of Inspector	

Date	Stamp and sign
Approved for use Yes <input type="checkbox"/> No <input type="checkbox"/>	
Name of Inspector	

C. REPLACED CONSUMABLES

By SKYLOTEC or User Technician

Date	<input type="checkbox"/> Rope Grab	<input type="checkbox"/> Connection Sling	Stamp and Sign
	<input type="checkbox"/> Rope Guide	<input type="checkbox"/> Lifting Handle	
	<input type="checkbox"/> Rope Wedge	<input type="checkbox"/> Carabiners	
	<input type="checkbox"/> Rope Cover	<input type="checkbox"/> Other(see protocol)	

Date	<input type="checkbox"/> Rope Grab	<input type="checkbox"/> Connection Sling	Stamp and Sign
	<input type="checkbox"/> Rope Guide	<input type="checkbox"/> Lifting Handle	
	<input type="checkbox"/> Rope Wedge	<input type="checkbox"/> Carabiners	
	<input type="checkbox"/> Rope Cover	<input type="checkbox"/> Other(see protocol)	

Date	<input type="checkbox"/> Rope Grab	<input type="checkbox"/> Connection Sling	Stamp and Sign
	<input type="checkbox"/> Rope Guide	<input type="checkbox"/> Lifting Handle	
	<input type="checkbox"/> Rope Wedge	<input type="checkbox"/> Carabiners	
	<input type="checkbox"/> Rope Cover	<input type="checkbox"/> Other(see protocol)	

C. REPLACED CONSUMABLES
By SKYLOTEC or User Technician

Date	<input type="checkbox"/> Rope Grab <input type="checkbox"/> Rope Guide <input type="checkbox"/> Rope Wedge <input type="checkbox"/> Rope Cover <input type="checkbox"/> Connection Sling <input type="checkbox"/> Lifting Handle <input type="checkbox"/> Carabiners <input type="checkbox"/> Other(see protocol)	Stamp and Sign
Date	<input type="checkbox"/> Rope Grab <input type="checkbox"/> Rope Guide <input type="checkbox"/> Rope Wedge <input type="checkbox"/> Rope Cover <input type="checkbox"/> Connection Sling <input type="checkbox"/> Lifting Handle <input type="checkbox"/> Carabiners <input type="checkbox"/> Other(see protocol)	Stamp and Sign
Date	<input type="checkbox"/> Rope Grab <input type="checkbox"/> Rope Guide <input type="checkbox"/> Rope Wedge <input type="checkbox"/> Rope Cover <input type="checkbox"/> Connection Sling <input type="checkbox"/> Lifting Handle <input type="checkbox"/> Carabiners <input type="checkbox"/> Other(see protocol)	Stamp and Sign

D. USAGE LOG

Date	Signature	Comment

D. USAGE LOG

Date	Signature	Comment

SKYLOTEC Nordic AB
Sagbäcksvägen 13
SE-43731 Lindome, Sweden

T: +46 31 65 56 60
E: info@skylotec.se
W: www.skylotec.com

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