



Apollo CARELINE 185 Patient Lift



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1. Purpose and application

1.1 Purpose

The Careline 185 is a mobile lifting device for the safe lifting and transfer of a person who is unable to walk.

The Careline 185 is designed for transfers from a horizontal or sitting position. This could be from the floor or bed, or from one seated surface to another, such as bed to wheelchair, or chair to the toilet.

This lifting device is suitable for use in private homes and institutions such as nursing homes, hospitals and rehabilitation facilities.

1.2 Safety instructions

The device must only be operated or used by persons who have the necessary training or knowledge and experience.

This instruction manual must be read carefully before the device is used.

Use the device only for the purposes described in this manual.

The manufacturer assumes no liability for damage of any kind caused by improper use and / or disregard of this user manual.

In addition to these instructions for use, you must adhere to current legal guidelines for patient transfer. If in doubt, contact the medical device representative(s).

There must be no signs of wear on the device or the sling.

Never start a transfer if there is a suspicion of a defect (e.g. due to unusual noises, loose components, etc.).

In such cases, the device must be taken out of service immediately.

Inform your dealer immediately.

The first time using the device on any patient, a full risk analysis by a physician, nurse or therapist must be carried out, documented and a record kept.
The caretaker is responsible for assessing the safety of other staff and patients before undertaking any use of this device. If no safe transfer can be achieved, then alternative transfer options must be sought.



During the lifting process, the castors **MUST NOT** be locked in the braked position. This will allow the device to stabilize itself during the lifting action. Locking the wheels during raising could cause the lifting device to become unstable, tip over, or cause injury. The lift is not intended for transport over longer distance.

The device can be loaded up to a maximum of 185 kg (SWL). This load must never be exceeded. If the maximum load is exceeded, a warning signal will sound. If the device is used with other components, it is always the total weight of all components used, that contribute to the (SWL) maximum load.

The device should only be used on surfaces with less than 5° slope.

Never lift the patient higher than it is necessary in the required transfer situation.

The unit must be kept at a normal indoor temp. of 2°C to 40°C and at normal humidity of 40-90%.

1.3 Unpacking

The Careline 185 Patient lifter is delivered completely assembled.

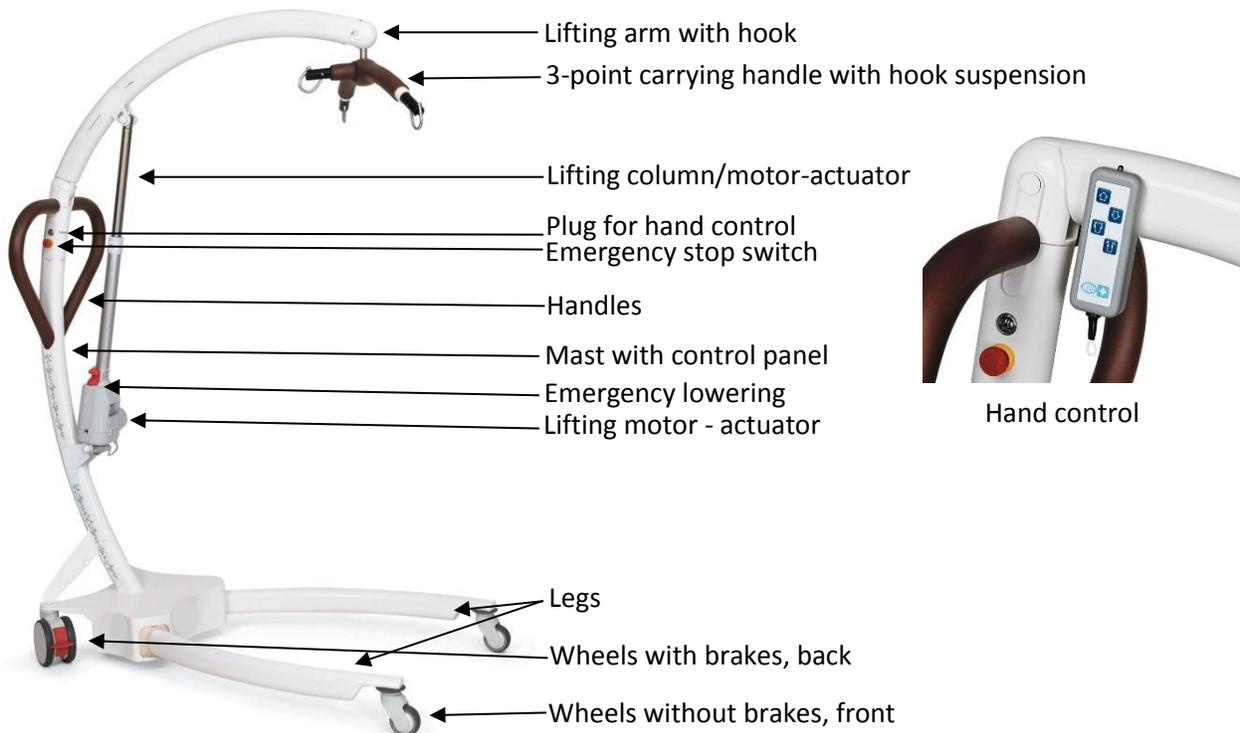
Once the battery has been inserted, there should be an audible bleep and the battery light on the lifter should illuminate green, this means that the lifter is ready for use.

Contents of the box:

1. Careline 185 Patient lifter
2. One Li-Ion battery
3. Charger
4. Instructions for Use

Check if all components are present and if the device has any damage. In case of missing parts or suspicion of damage, please contact your dealer immediately.

1.4 Components of lift



1.5 Visual inspection before each use.



The Caregiver is required to perform a full visual inspection before each use of the device and be sure the lifter and slings are in a usable and safe condition

During the visual inspection make sure to:

- Check that all the components shown in Fig 1.4 are present and firmly fixed or locked
- Check the Careline 185 device for any visible defects.
- Check the sling, and the belt loops for any visible damage, such as damage or tears.

If any defect is noticed or suspected, then the device must not be used. Please contact your dealer.

2. Features

2.1 Using the Control panel on the mast.

To control the device either the control panel on the mast or the hand control can be used.

Start function: Briefly press the start button to activate the device from the park position. The legs will then automatically open to the initial working width. Whilst this is happening it is still safe to move the device to be ready for use. The lifting arm will move into the intended sling position.

Hints:

If the device has not been used recently the 'Start' button should be pressed twice to activate the unit from the sleep mode

If you accidentally press 'Start', the function will be interrupted by pressing any other button.



Figure 2

1. Spreading the legs (operated by using the 'Start' button): If you wish to make the legs wider, press the 'Start' button until the desired width is achieved.

2. Reduce the width of the legs: If you wish to narrow the legs, press the green button with the legs symbol on, until the legs are at the required width.

3. Lifting / lowering the lift arm: Press the button with the arrow up or down until the lift arm has reached the desired height position.

4. Parking function: After the transfer, briefly press the 'P' button to place the unit in park position. The lift arm will automatically move to the lowest position and the legs will close to the narrowest position. In the meantime, you can move the device to its storage location.

Notice! Do not press 'P' while the patient is in the sling/lift, as this will cause the lift to set the patient on the floor!

Safety note



The 'P' button is only located on the control panel of the master to prevent inadvertent tripping of the park function. Nevertheless, if you have accidentally pressed on 'P', the function will be immediately interrupted by pressing any other button.



WARNING! Only use the parking function when the device is completely clear of the patient

2.2 Using the Handset



Figure 3

1. Briefly press the start button to activate the device from the Park position. The legs will then automatically open to the correct working width and the arm will raise. Whilst this is happening it is still safe to move the device, so it is ready for use.

Hints:

If the device has not been used recently the 'Start' button should be pressed twice to activate the unit from the sleep mode
If you accidentally press 'Start', the function will be interrupted by pressing any other button.

2. Spreading the legs (operated by using the 'Start' button): If you wish to make the legs wider, press the 'Start' button until the desired width is achieved.

3. Reduce the width of the legs: If you wish to narrow the legs, press the green button with the legs symbol on, until the legs are at the required width.

4. Lifting / lowering the lift arm: Press the button with the arrow up or down until the lift arm has reached the desired position.

2.3 Safety functions

Safety stop of the parking function

The parking activation has a safety detection stop function.

If the parking function is activated whilst the patient, caretaker, or other obstruction is inside the legs, the device will detect the resistance and make a safety stop.

Emergency Stop Switch:

The red emergency stop switch is located on the side of the device mast, and is activated by pressing it in. This will immediately stop all functions. To restore the device functions, twist the emergency stop button clockwise and release

EMERGENCY LOWERING:



Figure 4

This procedure is only necessary if the electrical lowering does not work and the patient needs to be safely lowered.

Emergency lowering is achieved by using the red handle at the lower end of the actuator, as shown in FIGURE 4.

This should be firmly lifted upwards and held there until the patient has been safely lowered. Make sure to activate the red handle smoothly.

SAFETY NOTE:



If it has been necessary to use the emergency stop button or the emergency lowering procedure has been required, the device should not be used again until you are sure that the fault has been rectified. If in any doubt, then please call your dealer.

2.4 Charging

The device is powered by a high-quality Lithium-ion battery, which should not be affected by capacity loss (memory effect). It is recommended that the Li-ion battery is charged daily, when not in use, or charged overnight. This procedure will prevent a deep discharge, which can significantly reduce the life of the battery. This Li-ion battery cannot be overcharged. An extra battery can be purchased if needed.

CHARGING:

Remove the battery from the device. Plug the battery into the table/wall charger's open end. Plug the charger plug into the main power outlet.

When charging the device, the indicator light on the power adapter will be red. When fully charged the light will be green

If very heavy use of the device is envisaged, then it is recommended a spare battery is purchased. This will avoid the situation in which the device cannot be used due to battery discharge.

When the charged battery is fully inserted into the device, there will be an audible bleep and the battery light will be green

Safety instructions:



Charge the Li-Ion battery using only the supplied AC charger, or a replacement AC charger purchased from your dealer.

1. Green LED light is on	The battery is charged, and the device is ready for use
2. Red LED light flashes, slow acoustic signal sounds	This audible and visible alarm indicates that the battery is at a very low capacity. Complete the transfer and immediately recharge the battery.
3. Red LED lamp lights up, rapid acoustic signal sounds	This audible and visible alarm indicates that the battery charge is completely empty. Recharge the battery immediately. Charging to full capacity should take around 8 hours

In the battery area of the lifter you will find the following lights

A fully charged battery should have enough power to achieve between 50 to 70 lifts (depending upon the weight of the patient).

3. Using the lifter

3.1 Spreader bar and Sling

The three-point spreader bar of the Careline 185 is equipped with a hook suspension, which can be used for slings with loops. There are other options of spreader bar available, please contact your dealer for more information on the availability and use of these spreader bars.

Your dealer will gladly assist you in choosing the slings that are right and safe for your requirements.

Safety instructions:



The caregiver must ensure that they select the correct sling which meets the needs of the patient and the required move. They are responsible for the correct use of the selected sling.

Follow the instructions for use for the selected sling.

Do not use sling intended for a ceiling hoist on this lift.

Fitting the sling around a seated person

1. Slide the sling down over the back of the patient down to the base of the backside.
2. Fit the leg straps of the sling on the side of the thighs.
3. Pass the leg straps under the thighs, and pull them out between the patient's legs, making sure the strap is not twisted



Figure 5

Fitting the sling around a person lying down

1. Turn the patient to the side.
2. Place the sling over the head and back so that the center of the sling is down the spine area of the patient.
3. Push the sling as far as possible under the patient
4. Turn the patient onto their back.
5. Pull out the straps.
6. The sling should now be under the patient.

Fitting the sling to the hooks

- **If you select a sling with different length options for the straps, you must ensure the most appropriate and safe length are used for the patient**

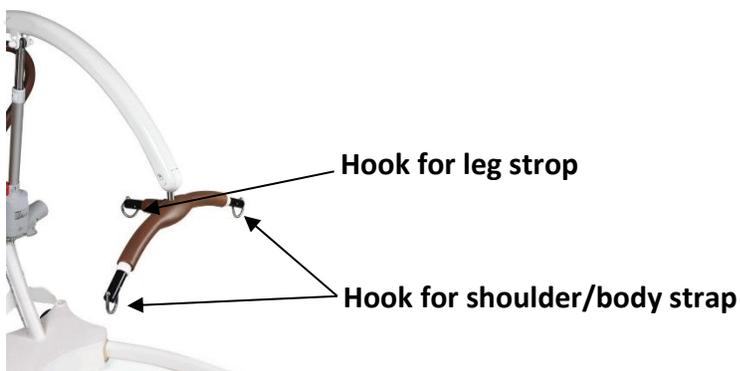


Figure 6

Note:

If you decide not to use the longest loops, the manufacturer of Careline 185 recommends, for additional safety, hooking the loops around the spreader bar.

For example, if you decide to use the shorter loops, then for added safety, place the medium and long loops around the spreader bar hooks.



1. Turn the spreader bar so that the two hooks for the shoulder straps are closer to the patient than the hook for the leg loops (Figure 6).

2. Place the shoulder and leg loops of the sling around the corresponding hooks. **It is very important that you make sure to use loops of the same length on both sides.**

3. Pull the strap loops down and make sure the straps are securely located over the hooks

For detailed fitting instructions of the slings, please refer to the user guide supplied with each sling

3.2 Transfer procedures

Before the transfer

- Plan all steps in advance, so that the lift with the patient is as short as possible.
- Always move the wheelchair or toilet chair as near as possible to the lifter.
- The manufacturer recommends carrying out the transfer operations with the legs opened in the widest position.
- Before commencing the lift, make sure that the patient is comfortably seated in the sling, and that the sling loops are still securely located over the spreader bar hooks.
- Inform the patient before transfer that the lift raising will start.

Safety instructions:



- **During the lifting process, the brakes of the lifter must be released. Otherwise the lift will not be able to stabilize itself and may lose stability. This could lead to injury.**
- **However, you must apply the brakes if the patient needs any care during the transfer.**
- **Never lift the patient higher than is necessary.**
- **Never leave the patient unattended in the lift even for a short time.**

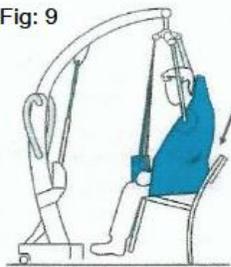
During the transfer:

1. Raise the lifting arm until the patient is about 5-15 cm above the seat. Check that you do not have to readjust the position of the belt for the convenience of the patient. If so, leave the patient on the chair / bed and make the necessary adjustments before proceeding with the transfer. This should ensure that the weight of the patient is safely and comfortably distributed on the sling.
2. Carry out the transfer,
3. Lower the patient onto the desired location.

Hints:

1. The lift moves more gently when it is pulled rather than pushed. This is usually more comfortable for the patient and is often much easier for the caregiver.
2. When maneuvering the patient lift, the legs should be spread as wide as possible.
3. To rotate the lift, pull on the handle with one hand and with the other hand press lightly on the sling or spreader bar

Fig: 9



Never turn the lift just by the handles, as this can cause the person in need of care to start rocking uncomfortably

If you want to place the patient onto a chair, wheelchair or shower chair, make sure that the patient's backside touches the backrest of the chair when setting down. This ensures that the patient sits deep on the seat after lowering and prevents the need to move the patient again once seated.



Please note that the chair may tilt backwards during the lowering process (Fig. 9)

Lifting from the floor.

1. Make sure that the health of the patient permits lifting from the floor with the patient lift.
2. Place a pillow under the patient's head.
3. Make sure there is enough space around the patient for a safe and comfortable lift. If this is not the case, place a blanket under the patient and, if possible, move them to a more suitable position.
4. Assist the patient with bending their legs and place the soles of their feet, flat on the floor
5. Widen the lift legs to their widest position.
6. Move the lift to the side to the patient. One sling belt should be under the bent knees of the patient, the other over his head. If the maximum leg spread is not enough for the position described above, carefully lift the patient's head on the cushion and slide the lifter leg under the pillow.

7. Adjust the height of the lift arm if necessary.
8. Apply both brakes on the lift. (Remember to release brakes before lifting)



Safety instructions:

Applying both lift brakes before lifting a patient from the floor which prevents the patient from being injured by the movement of the lift.

9. Follow the steps outlined in the section "Fitting a sling around a person lying down"
10. Follow the steps in "Hooking the sling onto the hooks." First place the shoulder straps and then the leg loops around the corresponding hooks. For detailed fitting instructions of the slings, please refer to the user guide supplied with each sling.
11. Inform the patient before raising the lift.
12. Lift the patient from the floor.
13. As soon as the harness receives the full weight of the patient, you may need to readjust the position of the belt for the safety and comfort of the patient. Lower the patient to the floor and make the necessary adjustments before proceeding with the transfer. This ensures the weight of the patient can be safely and evenly distributed on the sling.
14. Once the patient is over the legs, then you must release the brakes on the lift.
15. Adjust the height of the lift arm to the required height for the transfer.
16. Carry out the transfer.
17. Lower the patient onto the desired location.

4. Cleaning and storage

4.1 Cleaning

DO NOT use harsh chemical cleaners or abrasive materials.

The stand-aid should be cleaned before use with a damp cloth using plain soap and water.

If a more intensive cleaning is required to prevent cross-infection, then a hard surface disinfectant may be used.

Safety instructions:



- **In situations critical to infection, disinfect the device after each use to avoid cross-infection.**
- **The device must never be cleaned with high-pressure steam.**

4.2 Storage:

The device must be kept at an interior temperature of +2°C to + 40°C and normal humidity (40-90%), when storing, apply the brakes of the device.

If it is expected that the lift will not be used for an extended period, then it should be stored with the battery fully charged and the emergency stop button depressed. This should prevent battery discharge

5. Safety check and troubleshooting

5.1 Safety check

In accordance with the provisions of EN ISO 10535: 2007 and the manufacturer, the device must be inspected regularly by a properly qualified person (at least every 12 months). Maintenance may only be performed by service contractors authorized by the manufacturer

5.2 Troubleshooting

Problem	Possible cause	Solution
The device is NOT responding	The device is in sleep mode	Press the "Start" button twice
The device does not respond to commands	The device is in park position	Press the "Start" button once or twice
	The battery is not fully inserted	Remove the battery and re-insert it. There should be an audible bleep and the battery indicator should light green.
	The battery does not have any power left	Follow the description describing the charging procedure
	The handset has no power	
The legs cannot be made wider than the start position	After a long time without use the power consumption fluctuations of the leg spread motor has activated the safety stop	Execute the start and park functions 5 times in succession. If the error persists, recalibrate the device the pressing the emergency stop button and then releasing it by ¼ turn. If the error persists remove the battery and reinsert it.
The lift arm can only lower or raise/ The legs can spread or narrow	Defective manual operation/defective control panel	If the error occurs while using the hand control, try operating the lift arm/legs through the control panel on the mast. If this does not work, then please order a new hand control from your dealer. If the error occurs while using the control panel on the mast, try operating the lift arm / legs with the manual control. If this does not work, please order a new control panel for the mast from your dealer.

The lift gives a warning signal	Defect battery	Replace the battery
	The battery is low or out of power	Charge the battery (see 2.4 Charging)
	Two buttons are actuated immediately one after the other	Press one button and the give the device a moment to react
	The device is overloaded	Reduce the load
The lift motor vibrates or makes unusual noises	Defect lift motor	Order a new lift motor from your dealer/manufacture

6. Technical data and dimensions

6.1 Technical data

Lifting characteristics	
SWL/Max. load	185 kg
Number of lifting operations under load	50 - 70 with 80 kg
Usage interval	15%, Max, 2 minutes / 18 minutes
Manual emergency lowering	Yes
Electrical Details	
Charger	100-240 VAC 50/60Hz, Max 0.35A
Output voltage	24V
Battery capacity	3.2 Ah
Protection class	IPx4
Noise	
LWA during lifting / lowering without load	49 dB (A)
LWA during lifting / lowering at maximum load	52 dB (A)
Protection class	IPx4
Material	
	Powder coated aluminum, steel

6.2 Dimensions

Max. Height of the ZAp*	1970 mm
Minimum height of the aP	500 mm
Lifting range	1470 mm
Max. inner width	870 mm
Min. inside width	550 mm
Central suspension point	
Turning diameter	1300 mm
Total weight	40 kg
Weight of the battery	3.2 kg



Leg height (13 cm clearing min.)

Make sure the legs can fit under the bed frame. Incorrectly use can lead to injuries on the links inside the base and cause them to be damaged.

7. Warranty

The manufacturer grants a two-year warranty on the device and a one-year warranty on batteries, wheels and other wearing parts. In case of warranty contact your dealer.

The device has a life expectancy of at least 8-10 years, assuming all mandatory maintenance is performed, and maintenance requirements are met.

8. Disposal

The product contains aluminum, Li-ion batteries, electronics, ABS plastic and steel that can harm the environment without appropriate disposal. Please dispose of the product and the old batteries separately in a special collection and return point.

9. Symbols and abbreviations



WARNING! - Be Aware!



direct current



The product is to be recycled



Read the instructions carefully

SWL (Safe working load) Max. Load {people in need of care + sling}

10. Spare parts and accessories