



# Apollo CARELINE 200 Stand-Aid



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## 1. Purpose and application

### 1.1 Purpose

The Careline 200 is a mobile lifting device for the safe lifting and transfer of a person in need of support or assistance to stand, or to support them whilst walking. To avoid possible injury the patient must be able to support most of their own weight.

The Careline 200 is designed for transfers from the sitting position 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. Using the Stand-aid

### 1.2 Safety instructions

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

The stand-aid is not suitable for the transfer a patient who are not able to stand.

The stand-aid is suitable for transfers from the ground by using the correct sling.

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

Use this 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) at your facility, dealer or manufacturer.

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 this 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 found.**



During the lifting process, the castors are not intended to be locked in the braked position. This will allow the device to stabilize itself. To lock the wheels during raising could cause the lifting device to become unstable, tip over, or cause injury. The lift is not intended for transportation over longer distances. In some cases, the wheels can be locked for better lifting performance.

The device can be loaded up to a maximum of 200 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° drops.

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

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

### 1.3 Unpacking

The Careline 200 Stand-aid lift 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 stand-aid is ready for use.

Contents of the box:

1. Careline 200 Stand-aid
2. One Li-Ion battery
3. Charger
4. Instructions for Use

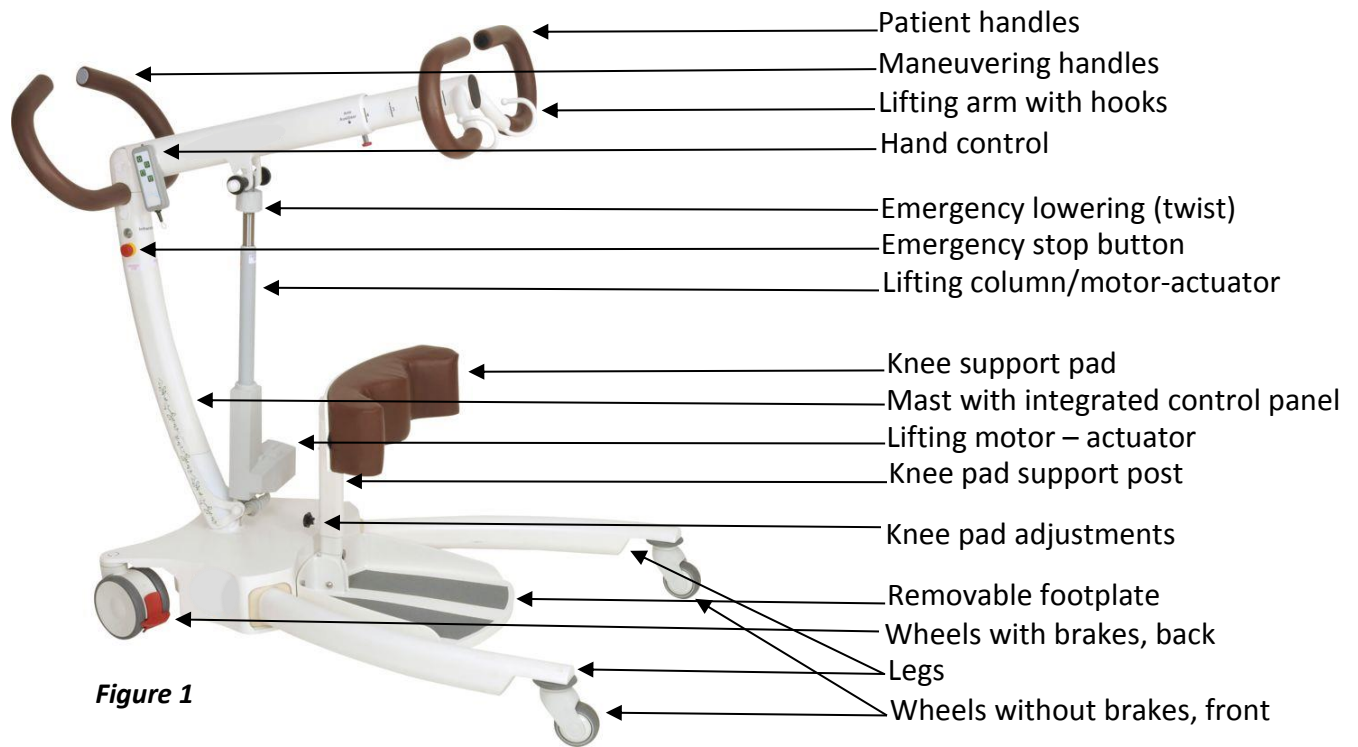
Check if all components are present and if the device has any damage. In case of missing parts or suspicion of damage, please contact your dealer immediately.

Turn up the grip



The maneuvering handles are shipped folded down in the lowered position. They need to be adjusted to the correct operating position by loosening the bolts with the supplied allen key, raising the handles and re-tightening the bolts. Add the protector knobs on key bolts x4.

#### 1.4 Components of the Careline 200 Stand Aid



#### 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**

This visual inspection should include:

- Check that all the components shown in Fig 1.4 are present and firmly fixed or locked
- Check the Stand-aid 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 it is ready for use. The lifting arm will move to 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.

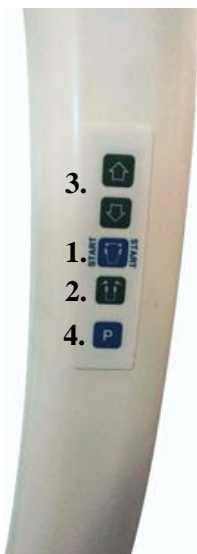


Figure 2

**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 make the legs narrower, 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 the park position. The lift arm will automatically move 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 parking 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



**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 up. Whilst this is happening it is still safe to move the device to be 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 make the legs narrower, 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:



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 grey hand knob at the top end of the actuator, as shown in Fig. 1. This should be turned in the direction of the arrows until the patient is safely lowered.

**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 second 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 Careline 200 Stand-aid



Figure 5



Figure 6

Carefully position the stand-aid so that the patient's feet fit comfortably into the foot plate.

#### 3.1 Adjustment of the knee pad

##### Height adjustment:

1. Loosen the small knob on the knee pad upright. After positioning tighten the knob again (Fig. 5, point 1)
2. Press in the locating button (Fig. 5, point 2), and adjust the knee pad height. The upper edge of the knee pad should be located below the kneecaps, and should not press on the kneecaps
3. The locating button must be in one of the 5 positions holes available.
4. Tighten the small knob (Fig. 5, point 1) to keep the kneepad at the desired height. The knee brace must not press on the kneecaps. The upper edge of the knee brace should be below the kneecaps

##### TILT ADJUSTMENT.

1. To adjust the kneepad to an upright angle, pull out the knob (Fig. 5, point 3)
2. Adjust the upright angle forwards or backwards, to one of the two possible locations.
3. Release the knob, ensure it locks securely into one of the two holes.

##### THE CALF STRAP

Fixing the calf strap (Fig. 6, point 1) around the patients' legs will ensure the correct leg position of the patient, and prevent the device being pushed away by the patient

### 3.2 Adjustment of the lifting arm

The completely stepless adjustment of the lifting arm allows for the easier and more comfortable attachment of the sling, and then the correct arm position to safely raise the patient.



Figure 7

#### Safety instructions:



**The caregiver must ensure that they select the correct sling for the needs of the patient and the required move and are responsible for the correct use of the selected sling. Follow the instructions for use for the selected sling.**

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

Firstly, you should fit the sling around the patient. Once you have correctly fitted the sling to the patient, then the arm length can be adjusted by the following steps

1. Maneuver the Stand-aid lift in front of the patient
2. Apply the brakes to the back wheels of the lift, only for arm adjustment
3. Push the button on the end of the raising arm (Fig. 7, point 1) with your thumb and at the same time pull the handles towards the patient (Fig. 7, point 2)

**NOTE:** If you have not operated the arm length adjustment for a few days, then the lubricating oil may have dropped in temperature, and then initially more force than normal may be required to adjust the length. After several length adjustments, the arm should be able to be pulled or pushed with little effort.

4. Place the sling loops around the arm hooks.
5. Push the button on the end of the raising arm (Fig. 7, point 1) with your thumb and at the same time push the handles towards the patient until the sling loops are slightly strained and the patient can easily lean forward.
6. Release the brakes of the lift before raising the patient.



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

### 3.3 Detachable Footplate



Figure 8

To remove the detachable foot plate, simply pull upwards

### 3.4 Hook attaching and sling

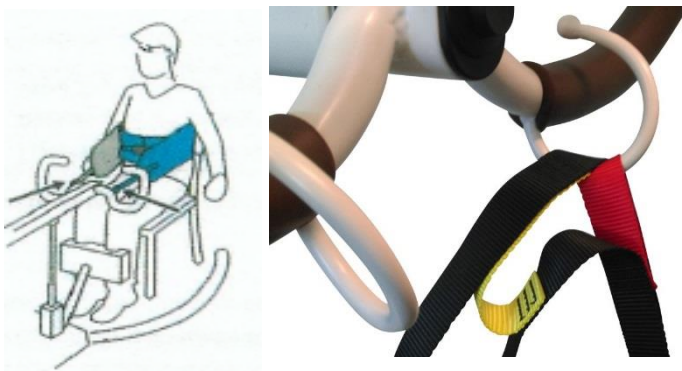


Figure 9

The lifting arm of Careline 200 stand-aid is equipped with a hook attachment, which are to be used for slings with loops. Your dealer will gladly assist you in selecting the straps that are suitable for your patients.

#### **Safety instructions:**

The caregiver is responsible for the correct use of the sling, which must be suitable for the respective patient. It should be ensured that the belt is correctly attached to the hook hangers. Ensure that you pay attention to the instruction manual for the item of the equipment that you are using.

#### **Attaching the sling to the hooks**

If you would like to use a strap with loops of different lengths, decide before the transfer which loops best meet the needs of the patient

Lay these loops around the hooks of the lift (Figure 9). Make sure that loops of the same length are used on both sides. Check that the loops are securely fastened to the hooks.

**Note:**

If you decide not to use the longest loops, the manufacturer of Careline 200 recommends, for additional safety, hooking the loops around the hook hanger.

Example see Figure 9: If the short red loop was selected; the medium yellow loop and the long black loop should also be attached around the hook.

**3.5 Carrying out the transfer procedures****Before the transfer**

- Plan all steps in advance, so that the transfer with the patient is as short as possible.
- Always move the wheelchair or toilet chair as near as possible to the lift.
- 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 hooks.
- Inform the patient before raising lift, that the lift will start raising. They need to be prepared to take some of their weight off by standing.

**Safety instructions:**

- **During the lifting process, the brakes of the Stand-aid must be released. Otherwise the device will not be able to stabilize itself and may lose stability. This could possibly 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.**

## Transfer from the sitting position to the standing position

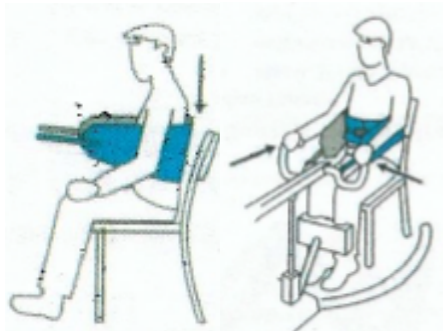


Figure 10

Figure 13

1. Locate the sling behind the back of the patient so that the belt is over the back and waist (Fig. 10).
2. Guide the strap under the patient's arms.  
If necessary, perform the length adjustment of the lifting arm again. This ensures the correct position of the patient during the raising. (See point 3.2 Adjustment of the lifting arm).
3. Release the brakes of the stand-up aid.
4. Ask the patient to hold on to the grab handles (Fig 13).
5. Inform the patient that the lifting process will start and encourage them to be ready to take some of their own weight off during the raising process
6. Slowly lift the lift arm of the stand-aid.  
If necessary, tighten the strap more firmly.

## Transfer from the standing position to the sitting position:

1. Move the patient in the stand-up aid to the seat, on which you want to place them.
2. Inform the patient that the lowering process will begin and ask them to be ready to actively help.
3. Lower the lift arm of the stand-up aid until the patient is seated securely onto the seat.

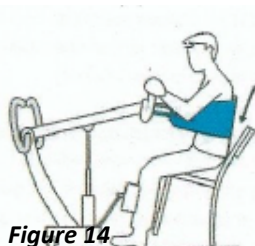


Figure 14

**NOTE:** If you want to place the patient on a chair, please make sure that the buttocks of the patient touch the backrest of the chair when setting down. This ensures that the patient sits deep on the seat after lowering, and can prevent the need to move the patient again once seated



Please note that the chair may tilt backwards during the lowering process (Fig. 14)

If necessary, adjust the length of the lifting arm. This facilitates the loosening of the belt from the Stand-aid and more comfortable removal of the belt from the patient (see point "3.2 Adjustment of the lifting arm"). Loosen the loops from the hook hanger.

## 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 stand-aid 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

<b>Problem</b>	<b>Possible cause</b>	<b>Solution</b>
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.
When operating the parking function, the lift arm does not lower	The lubricant in the lift arm is not evenly distributed	Move the lift arm several times with a weight. If the error persists, press the down arrow while pressing down on the lift arm manually
The lift arm can only lower or lift. 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

SWL/Max. load	200 kg
Lifting height	75 – 155 cm
Number of lifting operations under load	50 - 70 with 80 kg
Usage interval	15%, Max, 2 minutes / 18 minutes
Manual emergency lowering	Yes
Charger	100-240 VAC 50/60Hz, Max 0.35A
Output voltage	24V
Battery capacity	3.2 Ah
Protection class	1Px4
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*	1550 mm
Minimum height of the aP	750 mm
Lifting range	800 mm
Max. inner width	870 mm
Min. inside width	500 mm
Turning diameter	1060 mm
Total weight	40 kg
Weight of the battery	3.2 kg
Footplate weight	4 kg



#### **Leg height, 13 cm min. height**

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