

## Product Description

Liko SupportVest is a comfortable sit-to-stand vest that is easy to use and requires relatively little individual adjustment. It is suitable for patients who require a lot of assistance in standing, but are capable of standing steadily on their own once they are up.

The SupportVest lifts around the back and under the arms. The inside is lined with corduroy, which prevents the vest from sliding up on the body.

The Liko SupportVest is mainly intended for use in combination with the Sabina sit-to-stand lift with the 350 Slingbar (narrow).

In combination with Sabina, the SupportVest form a functional unit. For complete information and best results, read the instruction guides for both products.

### Sizes

The Liko SupportVest is available in different sizes. It is important to choose the correct size in order to achieve the highest level of comfort and safety.

### Waist Belt


The SupportVest is equipped with a waist belt that keeps the vest in place around the upper body during application.

### Padding

For a softer surface that distributes pressure more evenly the SupportVest is equipped with a padding liner of synthetic sheepskin. The vest can be used with or without the padding, since the padding is secured with a zipper and can be removed. Extra paddings are available for replacement.

 is a warning triangle used for situations which require extra care and attention.

*In this document, the person being lifted is referred to as the patient and the person helping is referred to as the caregiver.*

 **Read the instruction guide for both the sling and the lift being used. Instruction guides can be downloaded, free of charge, at [www.liko.com](http://www.liko.com).**

# Safety Instructions

## Before lifting, keep the following points in mind:

- A responsible person within your organization should decide on a case-by-case basis whether one or more caregivers are needed.
- Ensure that the sling selected meets the patient's needs with reference to model, size, fabric and design.
- For safety and hygiene reasons, use individual slings.
- Before lifting, plan the lifting operation so that it can be done as safely and smoothly as possible.
- Although Liko's sling bars are equipped with latches, special caution must be exercised: Before the patient is lifted from the underlying surface, but after the straps have been fully extended, make sure the straps are properly connected to the sling bar hooks.
- The height to which the lift should proceed varies from person to person.
- Never leave a patient unattended during a lifting situation.
- Make sure that the wheels on the wheelchair, bed, gurney, etc., are locked during the lifting/transfer operation.
- Always work ergonomically. Use the patient's ability to actively participate in the operations.
- When the sling is not being used, do not place in direct sun light.

## Medical Device Class I

Liko SupportVest has been tested by an accredited testing institute and complies with all the requirements for MDD Class I products and the harmonized EN ISO 10535:2006 standard.

Hill-Rom's Management system are certified in accordance with ISO 9001 and its equivalent for the medical device industry, ISO 13485. Hill-Rom's Management system is also certified in accordance with environmental standard ISO 14001.

## Design and Quality by Liko in Sweden

Liko's products undergo continuous development, which is why we reserve the right to make product changes without prior notice. Contact your Liko/Hill-Rom representative for advice and information about product upgrades.

## IMPORTANT!

Lifting and transferring a patient always involves a certain risk. Read the instruction guide for both the lift and lifting accessories before use. It is important to completely understand the contents of the instruction guide. The equipment should be used only by trained personnel. Ensure that the lifting accessories are suitable for the lift being used. Exercise care and caution during use. As a caregiver, you are always responsible for the patient's safety. You must be aware of the patient's ability to handle the lifting situation.

## Care and Maintenance

Check the sling before each use. Check the following points with regard to wear and damage:

- Fabric
- Straps
- Seams
- Suspension loops
- Buckle

Do not use damaged lifting accessories. If anything is unclear, please contact the manufacturer or supplier.

**Washing instructions:** See the sling's product label.

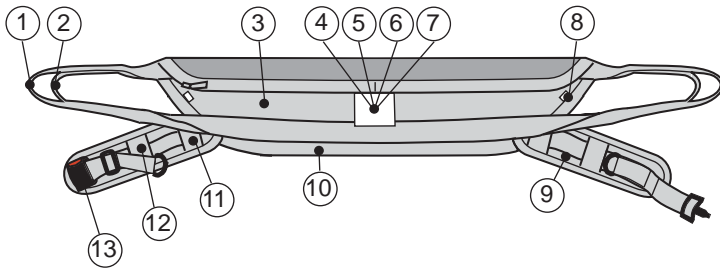
## Expected Life Time

The product has an expected life time of 1-5 years with normal use. Expected life time varies depending on the fabric, use frequency, washing procedure, and weight carried.

## Periodic Inspection

The product must be inspected at least once every 6 months. More frequent inspections might be required if the product is used or washed more often than normal. See Liko's protocol for Periodic Inspection for the respective product.

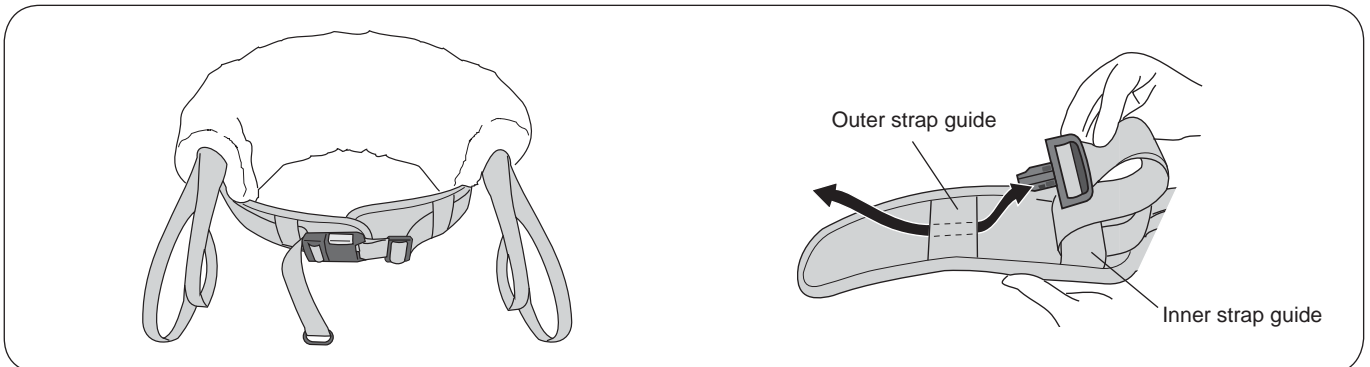
## Definitions



1. Outer strap loop
2. Inner strap loop
3. Outer vest
4. Product label
5. Serial number
6. Label: Periodic Inspection
7. Label: Individual marking (Belongs to)
8. Size marking
9. Waist belt with pads
10. Lower edge
11. Inner strap guide
12. Outer strap guide
13. Buckle

## Description of Waist Belt Function

The waist belt on the SupportVest is intended to hold the vest in place around the patient, but it is not intended to be used lifting the patient or securing the patient in the vest. If the patient requires a waist belt for safety reasons, we recommend changing to Liko SafetyVest or Liko ComfortVest.



The waist belt on the SupportVest is intended to hold the vest in place around the patient, initially during raising to an upright position.

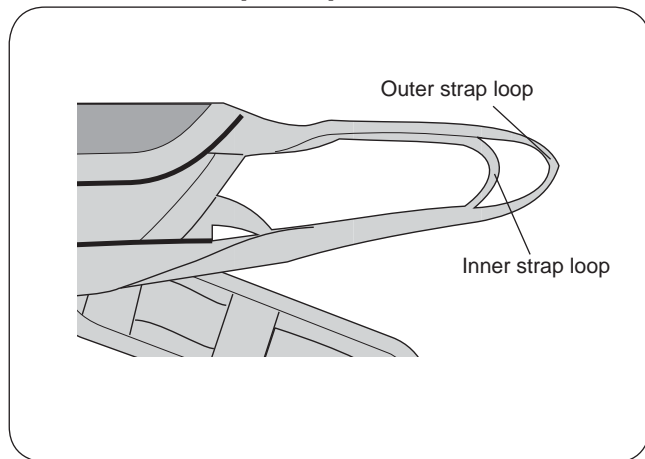
During raising, the upper body always tends to become somewhat narrower, causing the waist belt to slacken and hang loose around the upper body. This is a natural tendency and does not affect raising in any way.

△ If the waist belt is once again tightened after the patient is raised to an upright position, remember to slacken the tension before lowering the patient to prevent excessive pressure on the waist belt when the upper body expands.

If it is difficult to regulate the waist belt because it is wider than the patient's waist, pass the buckle through one or both of the strap guides, see illustration.

## Description of Strap Loops Function

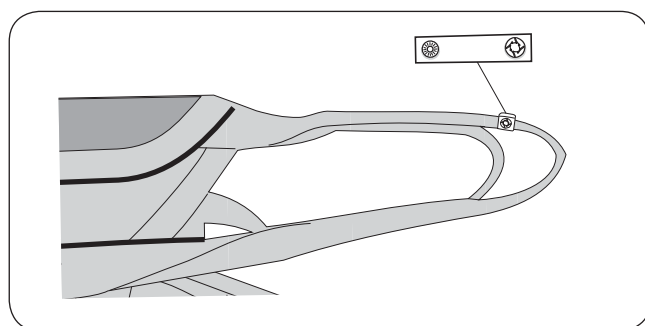
### Outer Vest Strap Loops



The outer vest is equipped with two strap loops: outer and inner strap loop, for maximum flexibility during use. Generally, it is recommended that you use the inner strap loop, so as to achieve a maximum upright position, and also to make it possible for the patient to reach the sling bar, in order to be able to participate in the raising. The outer strap loop is used when the patient's girth so requires it, or if the patient is short in relation to the height of the sling bar hooks on a Sabina.

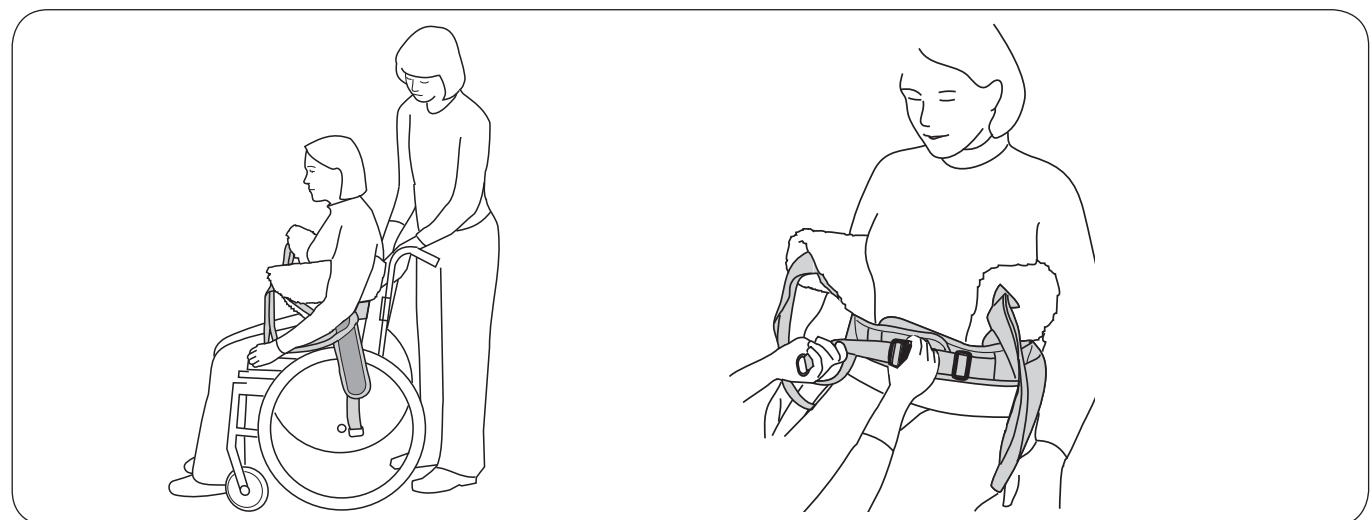
In cases where the inner strap loop is used, we recommend that you also connect the outer strap loop to the sling bar hook in order to have better visual control of the straps.

### Loop Clips



This practical accessory is used to mark the loops that have been tried out for a certain person. It makes it easier for the caregivers to choose the right loop to attach to the sling bar.

## Raising a Person with Active Lifting using Sabina and Liko SupportVest

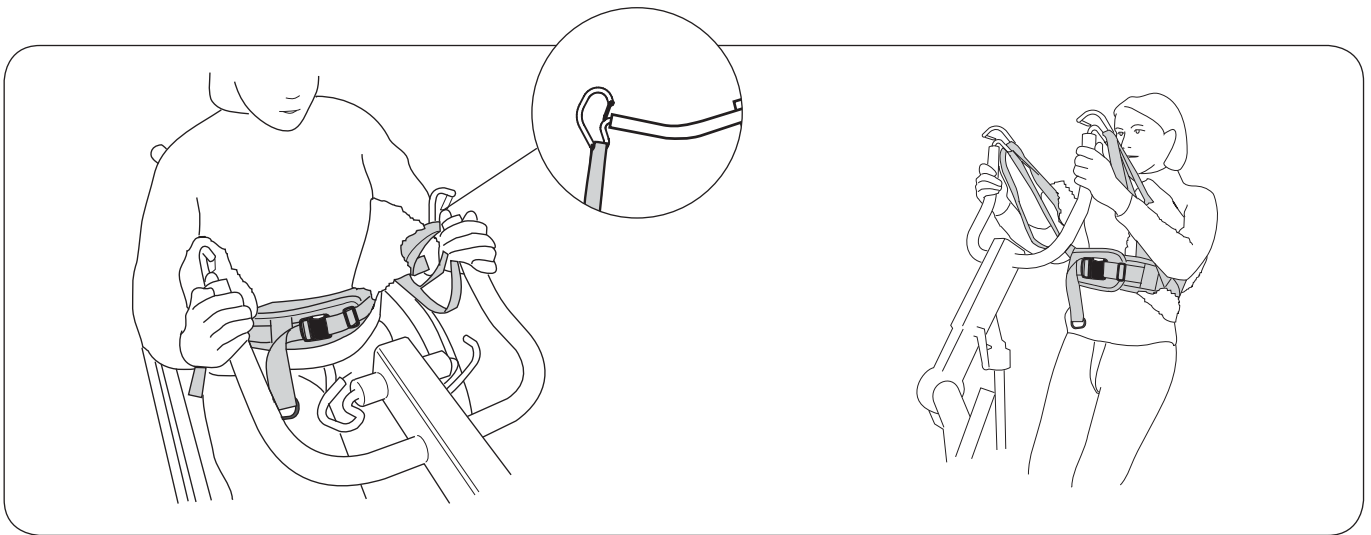


Place the vest behind the patient's back with the product label outwards. The lower edge of the vest should be in level with the patient's waist.

△ The patient's arms must **always** be held outside the vest to prevent the vest from sliding up.

Adjust the waist belt gently to the girth of the patient's upper body. Fasten the waist belt's buckle.





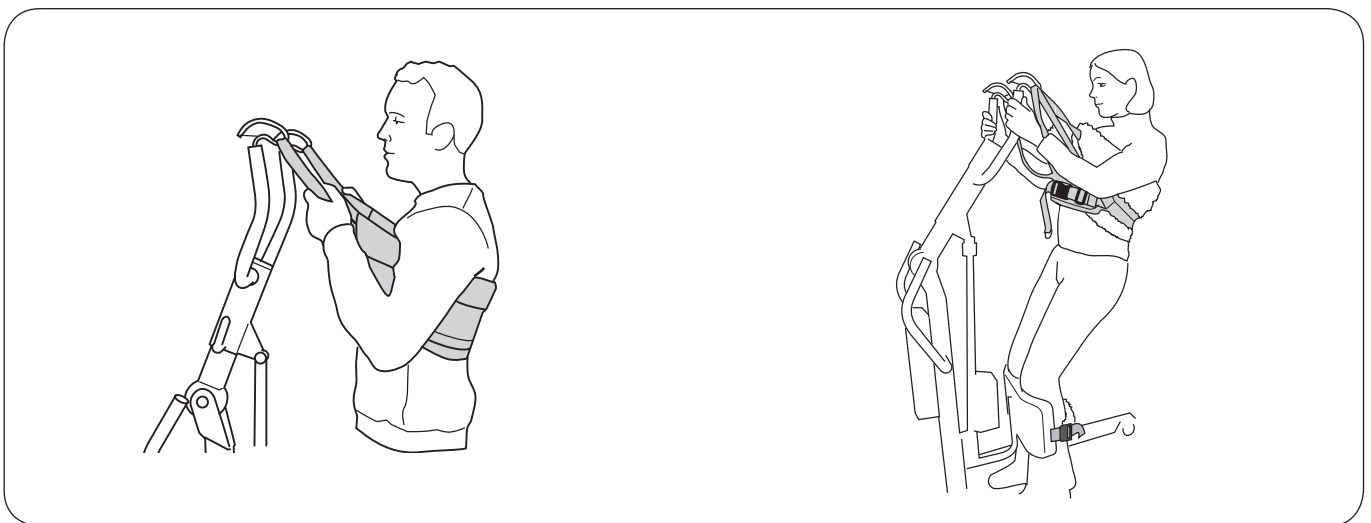
Determine which of the strap loops should be connected to the sling bar's hooks. Use the provided Loop Clips to mark the loops. See page 4, "Description of Strap Loops Function".

Position Sabina and adjust the width of the base, so that the patient's feet can be centred on the foot rest. The lower legs should be parallel to the lower leg support on the lift. Adjust the height and depth of the support as needed for comfortable support below the kneecaps. Fasten and tighten the calf strap around the lower legs.

Now you are ready to connect the strap loops (which you have tried out) to the sling bar's hooks.

**Raising:** Operate the lift by pressing the up and down buttons (two possible speeds). If possible, the patient should be encouraged to participate actively by grasping the sling bar and pull themselves up.

**Tip:** Note that it is easier for the patient to rise from a seated to a standing position if he or she is sitting relatively upright; i.e., the hip joints are at the same level as, or preferably higher than, the knee joints.



**Tip:** In the event that the vest slides up during raising, the patient can grasp the strap loops instead of grasping the sling bar. This will help to keep the vest in place and provide good back support during raising.

We recommend that the patient lean the upper body back somewhat, to compensate for weak muscles in the lower body. This facilitates standing, enhances comfort and prevents the vest from sliding upward.

## Fitting Advice

### Adjustment to Achieve Highest Possible Raising

The maximum raising height can be adjusted as follows:

- Make an individual setting of the lifting height. See the instruction guide for Sabina.
- Select either the inner or the outer strap loop on the outer vest. See page 4, "Description of Strap Loops Function".
- Size of the vest. A smaller sized vest makes a higher raising possible.

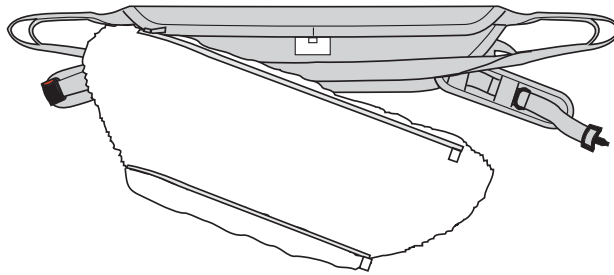
### Advice for Choosing Size

For maximum comfort, the soft/padding part of the vest should reach properly around the back and under the arms. If the vest is too large, the patient may not be able to grasp the sling bar.

### Alternative Sit-to-stand Vests

If the patient requires a waist belt for safety reasons, we recommend changing to Liko SafetyVest or Liko Comfort-Vest.

## Replacing the Padding



The soft padding is secured with a zipper. The padding can be removed and washed if necessary. Replacement paddings are available for purchase, see page 7.

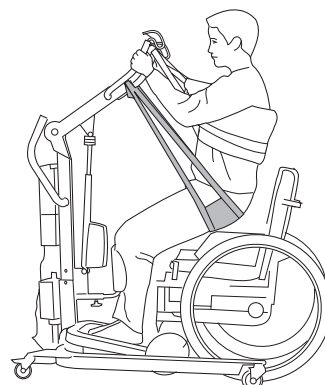
# Accessories for Liko SupportVest

## Sabina SeatStrap

Prod. No. 3591115

The SeatStrap is an accessory that facilitates the first part of the raising motion. The SeatStrap is connected to a SeatStrap SlingBar, which helps the patient move the seat up when raising. In standing position, the SeatStrap can be easily disconnected so that it is not in the way when, e.g., going to the toilet.

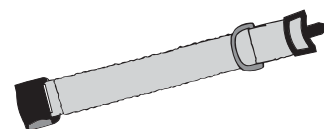
The SeatStrap requires a special accessory: SeatStrap SlingBar (Prod. No. 2027006-07). Make sure to study the instruction guide for the SeatStrap before use.



## Extension Belt III

Prod. No. 3691107

If necessary, the waist belt of the SupportVest can be extended using an Extension Belt. That will extend the waist belt 7-48 cm (3-19 inch).



## Padding for Vest Mod. 91 & 93

Padding for Vest, Small

Prod. No. 3691034

Padding for Vest, Medium

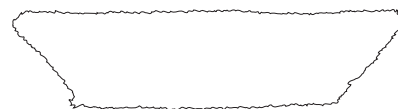
Prod. No. 3691035

Padding for Vest, Large

Prod. No. 3691036

Padding for Vest, XL

Prod. No. 3691037



## Loop Clips

Loop Clips, red, 4 pcs

Prod. No. 3666033

Loop Clips, orange, 4 pcs

Prod. No. 3666034

Loop Clips, yellow, 4 pcs

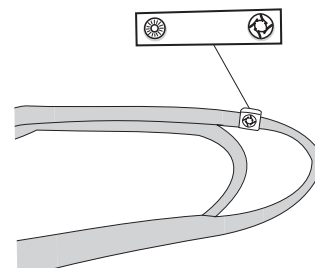
Prod. No. 3666035

Loop Clips, blue, 4 pcs

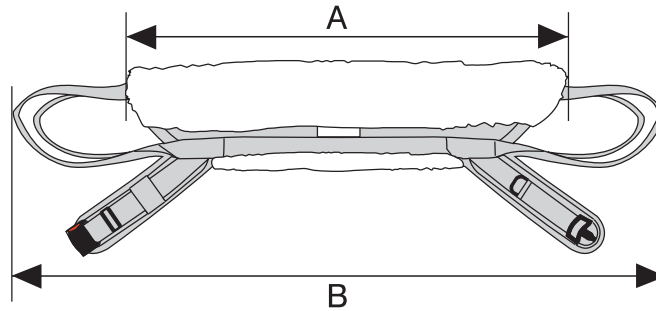
Prod. No. 3666036

Loop Clips, black, 4 pcs

Prod. No. 3666037



# Overview Liko SupportVest, Mod. 91



Product	Prod. No.	Size	Vest width cm (inch.)	Patient's Weight <sup>1</sup>	Max load <sup>2</sup>
Liko SupportVest	3591134	S Small	A: 80 (31) B: 130 (51)	< 60 kg (<132 lbs)	200 kg (440 lbs)
Liko SupportVest	3591135	M Medium	A: 90 (35) B: 140 (55)	50-80 kg (110-176 lbs)	200 kg (440 lbs)
Liko SupportVest	3591136	L Large	A: 105 (41) B: 155 (61)	70-100 kg (154-220 lbs)	200 kg (440 lbs)
Liko SupportVest	3591137	XL Extra Large	A: 120 (47) B: 160 (63)	> 100 kg (> 220 lbs)	200 kg (440 lbs)

<sup>1</sup> The indicated patient weight is a guideline only – there may be deviations.

<sup>2</sup> To maintain maximum load, lift/accessories intended for the same load or more are required.

## Combinations

The SupportVest is intended for use only with Liko Sabina sit-to-stand lifts (different models available). We recommend Sabina with Sabina 350 SlingBar (narrow).

## Other Combinations

Combinations of accessories/products other than those recommended by Liko can result in risks for the safety of the patient.

In those cases where another manufacturer recommends Liko's accessories/products in combination with their or others' accessories/products, and the combinations are not approved by Liko, that manufacturer assumes the responsibility for that combination. Liko then refers to the responsible manufacturer's instruction guides and recommendations concerning usage, maintenance, cleaning, checking and inspection of the combination in order to fulfil the EN ISO 10535:2006 requirements.



A Hill-Rom Company

[www.liko.com](http://www.liko.com)

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