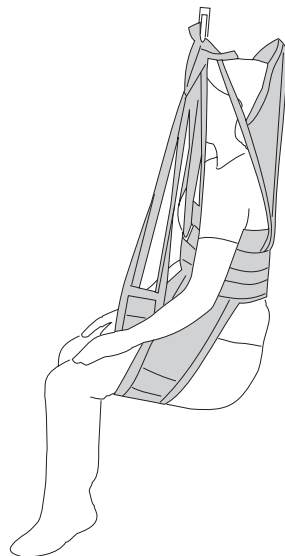


# Liko™ HygieneVest Mod. 55



## Instructions for Use



### Product Description

Liko HygieneVest is designed for safe lifting and transfer to and from the toilet.

In terms of function and safety, the HygieneVest offers unique advantages and works well in complicated problem situations where no other alternatives are appropriate. The HygieneVest has an outer vest section that surrounds and firmly supports the upper body during lifting. A generous opening around the seat leaves much of the lower body free for dressing and undressing during the actual lifting operation in connection with visits to the toilet.

Liko HygieneVest enables a stable, upright sitting posture. HygieneVest can also be used for severely functionally disabled amputees or those who have problems with spasticity.

Even patients with limited torso stability and poor muscle tone can usually manage lifts with the HygieneVest, and they find it secure and comfortable.

The HygieneVest is intended for sit-to-sit lifting.

The sitting posture is almost fully upright, which facilitates lifts to the toilet and positioning in a wheelchair.

Since the HygieneVest is not placed over the hips, it is ideal for lifting to and from custom-moulded seats and close-fitting wheelchairs.

HygieneVest is made of green polyester and the leg supports are reinforced and padded with a curduroy fabric.

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

#### **IMPORTANT!**




















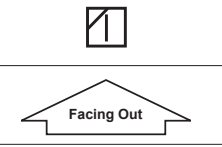
Lifting and transferring a patient always involves a certain level of risk. Read the instructions for use for both the patient lift and lifting accessories before use. It is important to completely understand the contents of the instructions for use. The equipment should only be used by trained personnel. Ensure that the lifting accessories are suitable for the lift 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 make it through the lifting situation. If something is unclear, contact the manufacturer or supplier.

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## Symbol Description


These symbols can be found in this document and/or on the product.

Symbol	Description
	Warning; this situation requires extra care and attention.
	Read instructions for use before use
	CE mark
	Legal manufacturer
	Date of manufacturing
	Product Identifier
	Serial Number
	Medical device
	Do not dry clean
	Do not iron
	Tumble drying
	Do not tumble dry
	Washing Symbol is always in combination with recommended temperature in °C and °F.
	Latex Free
	Periodic inspection
	Do not bleach
	Line drying in shade
	Direction upwards and symbol on outside of equipment.
	Symbol on outside of equipment.
	GS1 Data Matrix Barcode that may contain following information. (01) Global Trade Item Number (11) Production Date (21) Serial Number

# 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.
- For safety and hygiene reasons, use individual slings.
- Plan the lifting operation so that it can be done as safely and smoothly as possible.
- Check that the lifting accessory hangs vertically and can move freely.
- Although the Liko sling bars are equipped with latches, special caution must be exercised. Before the patient is lifted from the underlying surface, but when the straps are fully extended, make sure the straps are correctly connected to the sling bar hooks.
- Never lift a patient higher above the underlying surface than is necessary for the lifting and transfer procedure.
- Check to ensure that the patient is sitting securely in the sling before starting the transfer.
- Never leave a patient unattended during a lifting situation.
- Make sure 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.
- It is recommended to remove the sling after the transfer.
- When the sling is not being used, do not place in direct sun light.

 **Incorrect attachment of sling to sling bar may cause severe injury to the patient.**

 **Manually turning the patient in bed may cause injuries to the caregiver.**

 Medical Device Class I Product

**PATENT [www.hillrom.com/patents](http://www.hillrom.com/patents)**

**May be covered by one or more patents. See above Internet address.**

The Hill-Rom companies are the proprietors of European, US, and other patents and pending patent applications.

## **Product Changes**

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

## **Design and Quality by Liko in Sweden**

Liko is quality certified according to ISO 9001 and its equivalent for the medical device industry ISO 13485. Liko is also certified according to environmental standard ISO 14001.

## **Notice to Users and/or Patients in EU**

Any serious incident that has occurred in relation to the device, should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

## Care and Maintenance

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

- Fabric
- Straps
- Seams
- Loops

**⚠ Do not use damaged lifting accessories.**

If anything is unclear, please contact the manufacturer or supplier.

**Washing instructions:** Please see the sling's product label and the attached appendix "Care and Maintenance of Liko Slings"

### Periodic Inspection

The product must be inspected at least once every 6 months. More frequent inspections might be required if the products are used or washed more often than normal. For protocols please contact your Hill-Rom representative.

### Expected Life Time

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

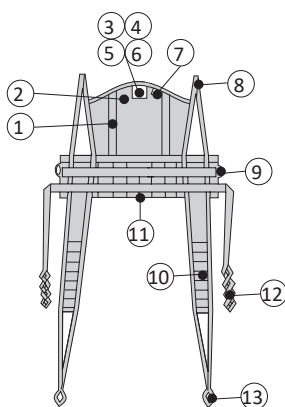
### Recycling Instructions

The entire sling, including laths, padding material, etc. should be sorted as Combustible waste.

Hill-Rom evaluates and provides guidance to its users on the safe handling and disposal of its devices to aid in the prevention of injury, including, but not limited to: cuts, punctures of the skin, abrasions, and any required cleaning and disinfection of the medical device after use and prior to its disposal. Customers should adhere to all federal, state, regional, and/or local laws and regulations as it pertains to the safe disposal of medical devices and accessories.

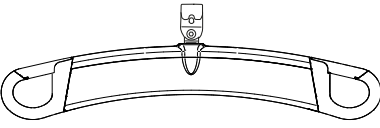
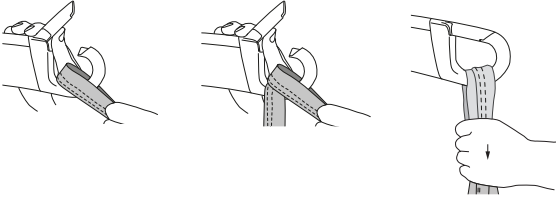
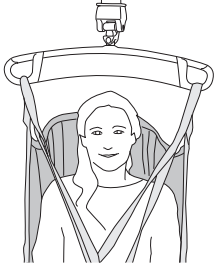
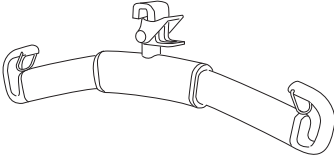
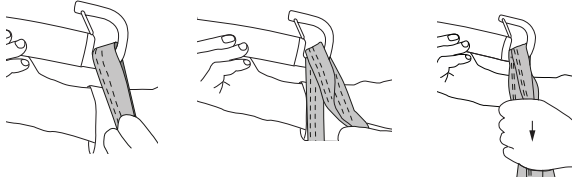

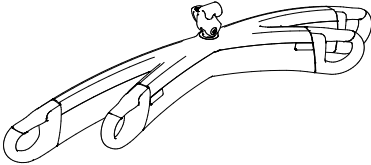
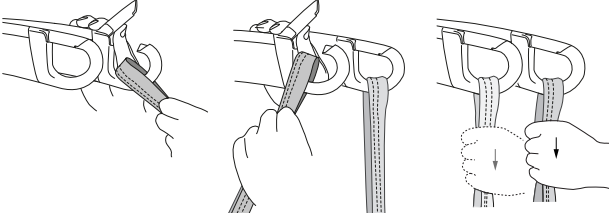
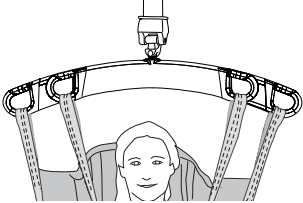
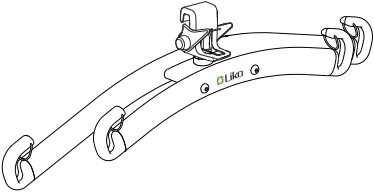
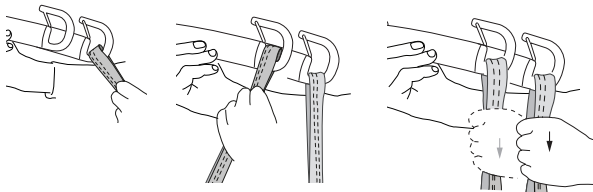
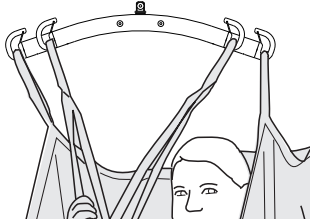
If in doubt, the user of the device shall first contact Hill-Rom Technical Support for guidance on safe disposal protocols

## Definitions

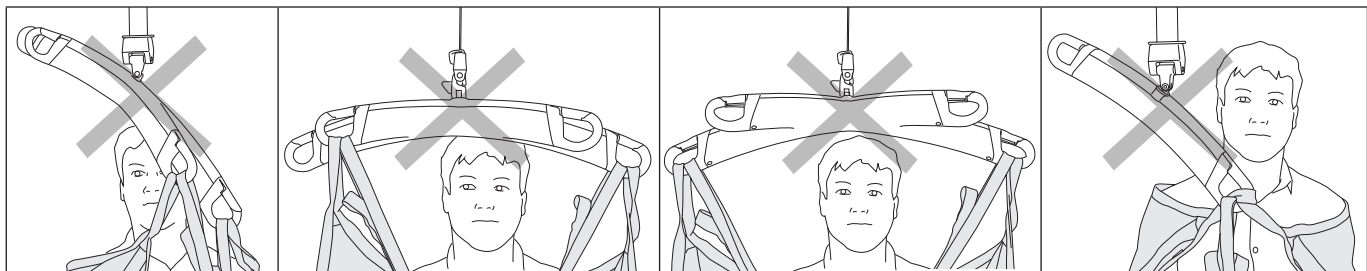


1. Laths
2. Head support
3. Product label
4. Serial number
5. Label: Periodic inspection
6. Label: Individual marking (Belongs to)
7. Size marking
8. Shoulder strap
9. Metal D-rings
10. Leg support
11. Lower edge
12. Loop strap
13. Leg support loop

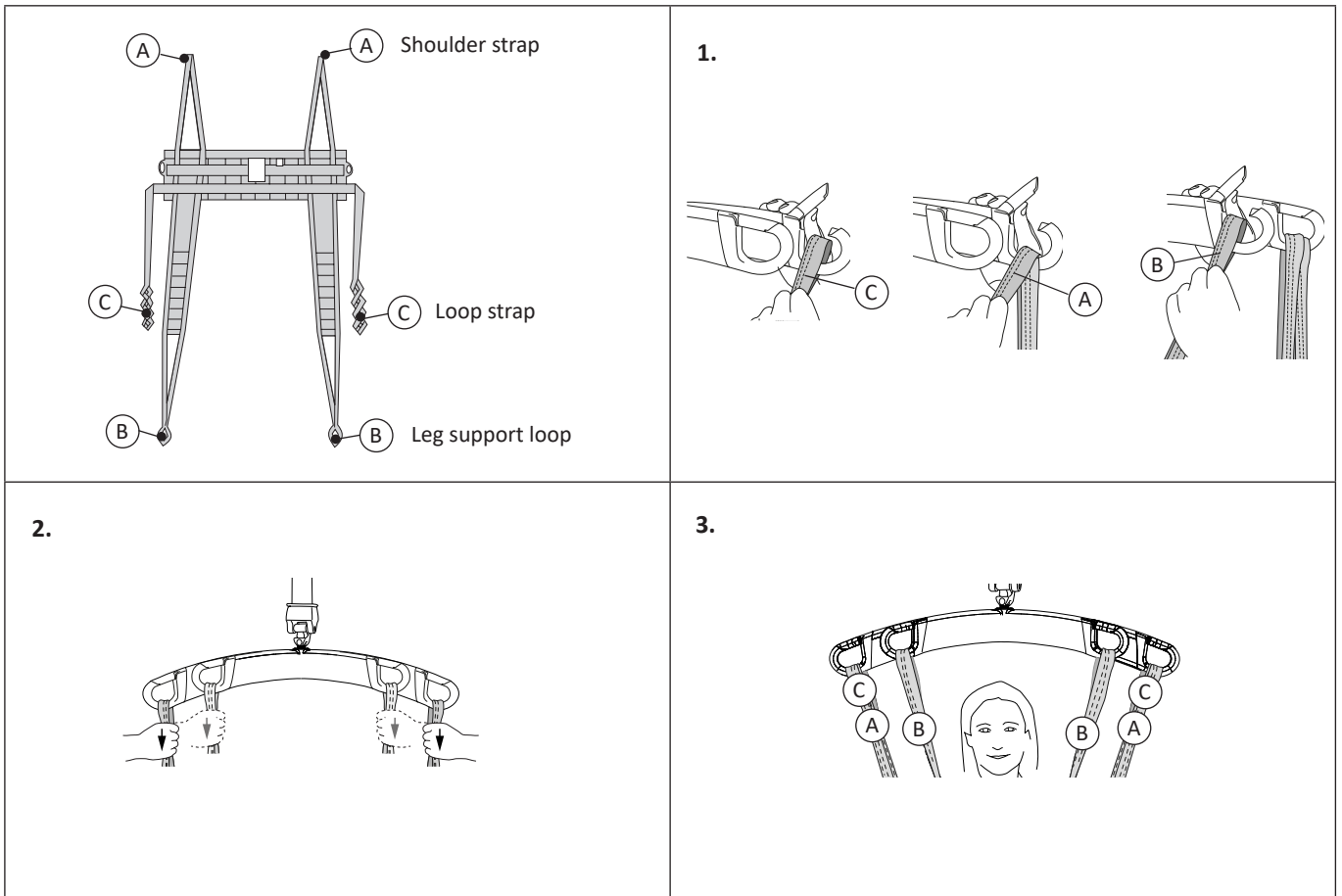
## How to Attach a Sling to Different Sling Bars

Sling bar	Sling loops to sling bar hooks	Correct
 <p>SlingGuard™</p>		
 <p>Universal</p>		
 <p>SlingGuard™ Twin</p>		
 <p>Universal Twin</p>		

### Wrong!

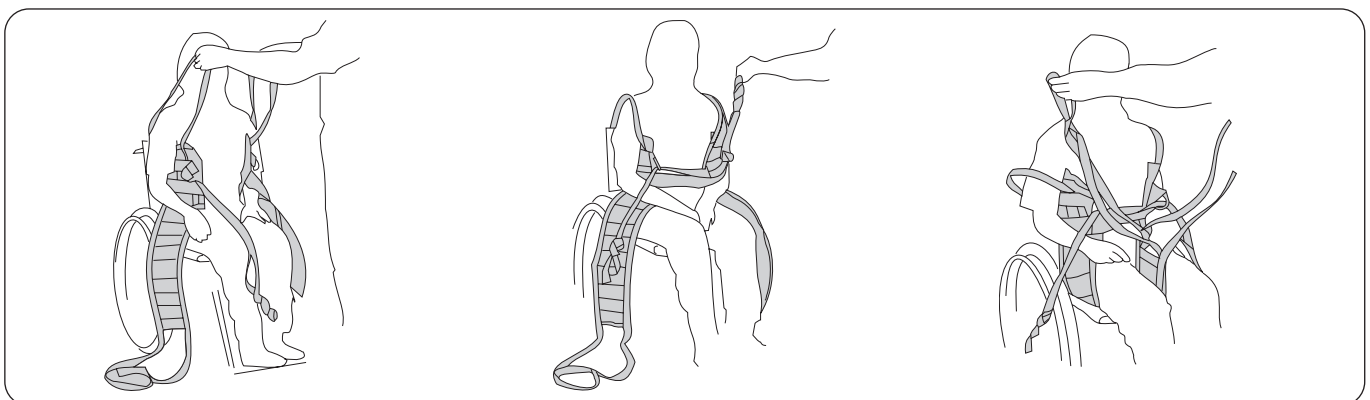


## How to Attach a HygieneVest to a Twin Bar



## Transfer from Wheelchair to Toilet

Prepare to undress the patient by undoing buttons and zippers.

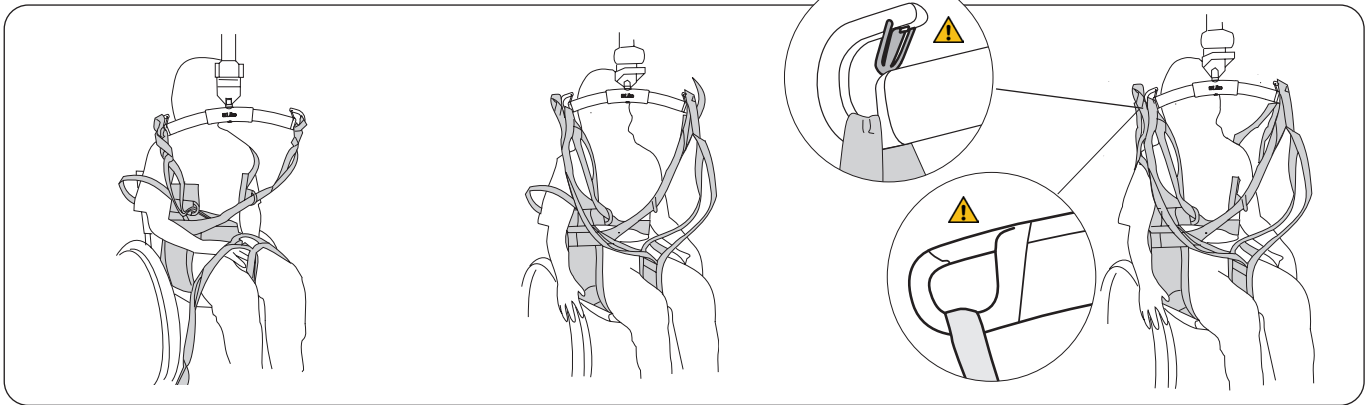


Place the vest around the patient, with the product label facing out. Put the arms through the shoulder straps.

Draw the right loop strap through the left D-ring. Draw the left loop strap through the right D-ring.

Position the leg supports under the patient's thighs and cross the leg support loops.





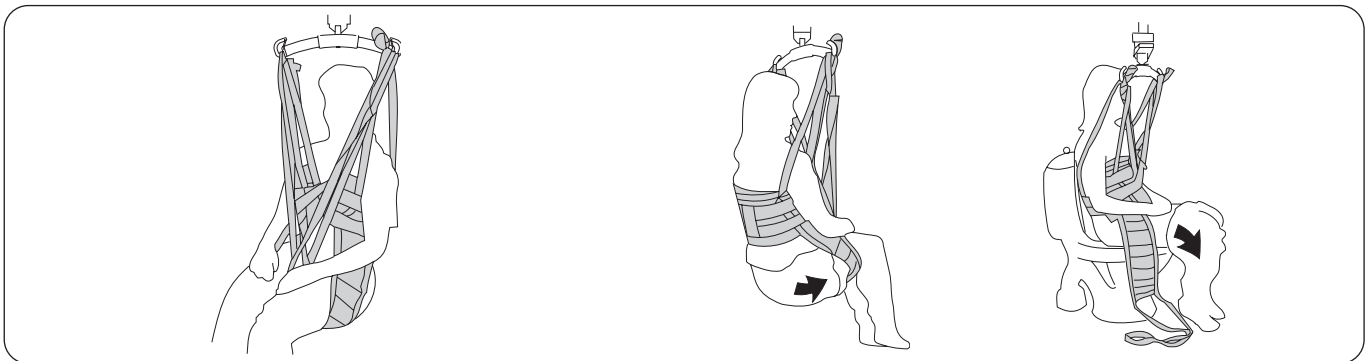
Connect the loop straps to the sling bar at the appropriate loop; see page 10.

Connect the crossed leg support loops to the sling bar. There are two alternatives, see page 10.

Finally, connect the shoulder straps to the sling bar. See page 6-7 for instructions on how to attach the sling loops to different sling bars.

**⚠ Important!**

The HygieneVest is intended for sit-to-sit transfers. If it is used for lifting from a horizontal position, the shoulder straps will wear out faster. **The shoulder straps should always be connected last to the sling bar.**



Carefully raise the lift. Make sure the pressure is comfortably distributed around the upper body. If not, lower the sling and make the appropriate adjustments. See page 10.

Pull the clothing down as far as possible and lower the patient to the toilet. Disconnect the leg supports and lower the clothing further. The vest section can remain around the upper body for support. In some cases, it may be easiest to leave the leg supports connected during visits to the toilet (applies mainly to female patients).



## Return Transfer from Toilet to Wheelchair

Described below are two ways of dressing the patient after a toilet visit. The most appropriate alternative depends on the patient's condition and type of clothing.

**Alternative 1:** Leg supports outside the garments. Appropriate for patients with non-elastic pants.

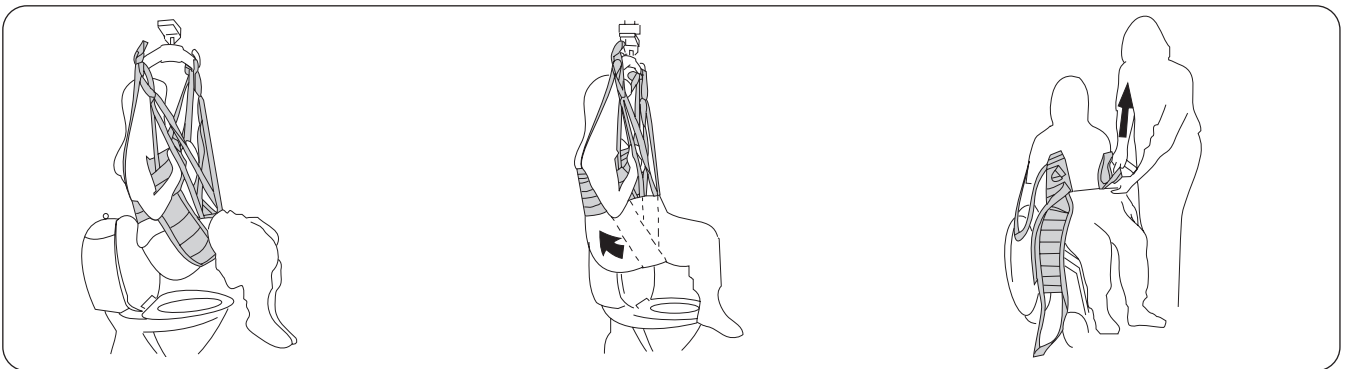


Draw the pants up as close to the crotch as possible.

Position the leg supports under the thighs but outside the pants. Connect all loop straps (see page 10). Lift.

If needed, place an incontinence pad inside the pants before you draw them over the hips. Transfer the patient and lower him/her into the wheelchair.

**Alternative 2:** Leg supports inside – pants outside. This method is appropriate for patients with elastic pants.



Connect all loop straps (see page 8). Lift. An incontinence pad can be placed inside the crossed leg supports.

Pull the pants up over the hips and leg supports while the patient is sitting in the sling. Transfer the patient to the wheelchair.

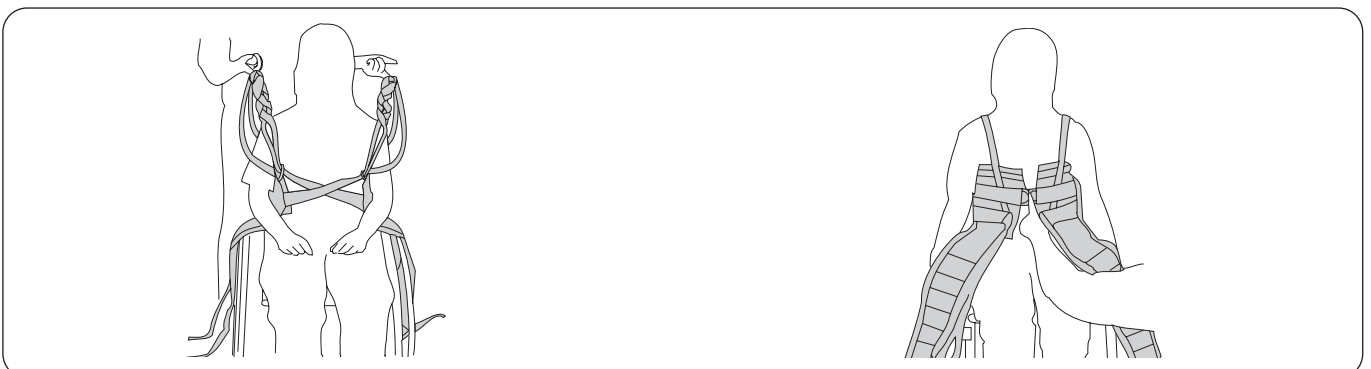
Disconnect the strap loops. Carefully work the leg supports out of the pants and remove the HygieneVest.

## Fitting Instructions

It is essential that the HygieneVest width is correct in relation to the girth of the patient's upper body. Distribution of pressure around the chest varies according to sling bar width. Try different variations.

### Selecting the right size

Check the size of the gap between the front edges of the vest when it is closed. The gap varies depending on the size of the vest, but it should be between 5 and 30 cm (2-12 inch.). The larger the size, the wider the gap can be.



Too small. The gap is too wide and the loop straps are shorter than the shoulder straps when suspended.

Too large. The metal D-rings meet and the vest cannot be tightened enough with the loop straps.

## Adjusting the loop straps

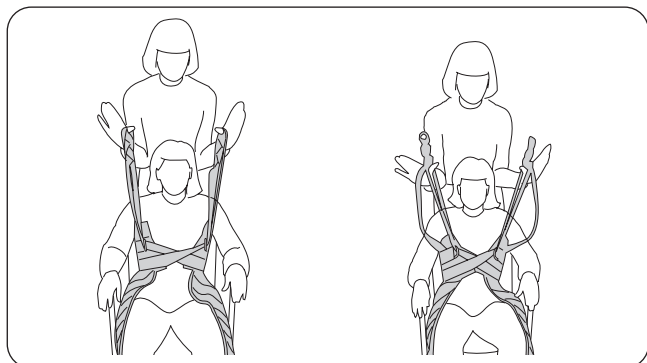
The tension of the vest around the chest is determined by which loop you attach to the sling bar. By test lifting using different loops together with the shoulder straps, you can determine which position gives the right degree of tension.

If the vest slides up - try an inner loop or a smaller sized vest.

If the vest is too tight around the chest - try an outer loop or a larger sized vest.

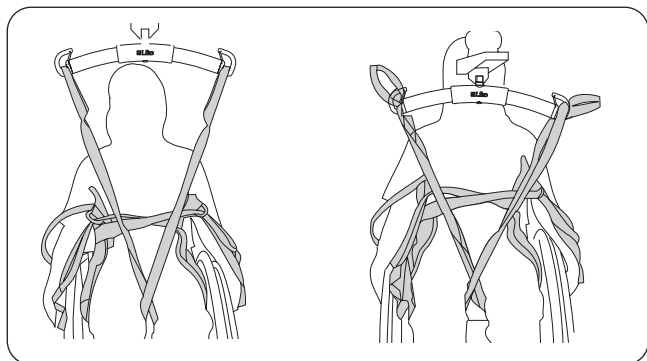
For a slender person, you would need to use an inner loop and for a heavier person, you would need to use an outer loop if both were using the same size of vest.

When loop straps are properly adjusted, the shoulder straps and loop straps are equally taut during lifting.



### Testing loop strap adjustments

Stand behind the patient and hang the shoulder straps and loop straps on your thumbs. Lift until the straps are fully suspended. If properly adjusted, the shoulder straps and loop straps will be equally taut.



### Adjusting the leg supports

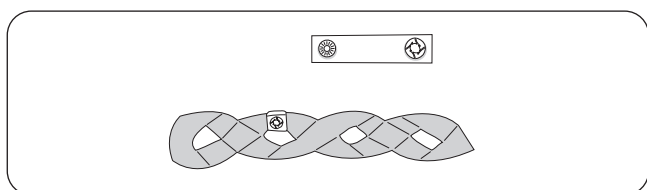
Generally, the leg supports are adjusted according to the height of the patient. For a shorter person, attach the leg supports' inner loops to the sling bar. This usually enables a more reclined sitting position.

Try different alternatives until you find the best one.

**Helpful hint:** Instead of connecting the inner loop, try knotting the leg support loops.

Gives an upright sitting position. Suitable for most patients.

Suitable for shorter patients.



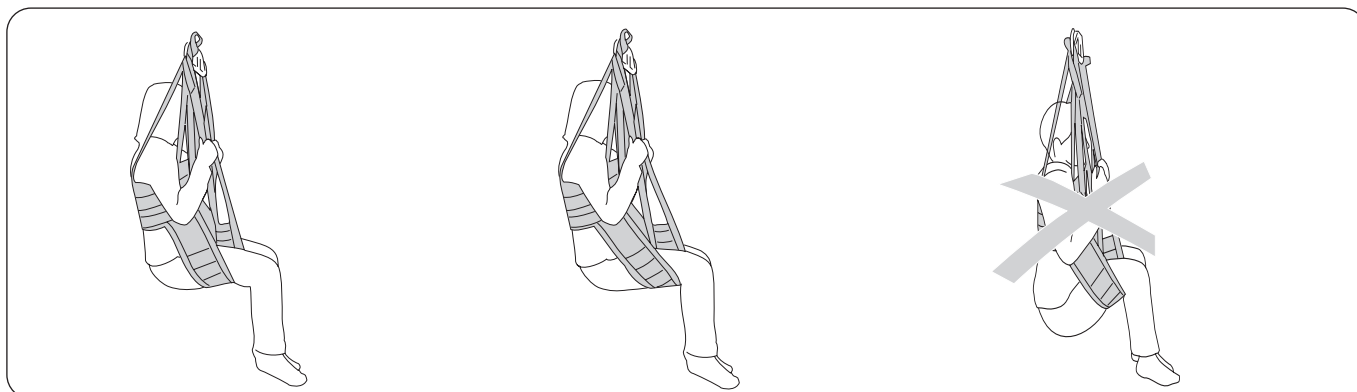
### Loop Clips

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.

## Positioning the leg supports

⚠ How well the patient sits in the sling is determined by **where** you place the leg supports under the thighs. For a patient with weak muscles, place the leg supports as close to the crotch as possible so he/she does not sink down in the sling.



Correct positioning of leg supports for most patients.

For patients with good muscle tone, it may be better to place the leg supports closest to the knee.

If the patient sinks down in the sling and is uncomfortable, the leg supports should be placed closer to the crotch.

## Helpful hints:



If you have test fitted a HygieneVest on a relatively slender patient according to the instructions on page 10, but find the vest is still too loose, try crossing the loop straps once (above the D-rings), as illustrated, before attaching the loop straps to the sling bar.

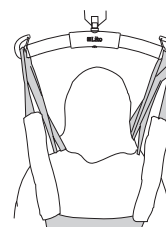
For some patients, e.g. amputees, it may be helpful to pull the leg support loops inside the crossed loop straps, or through the metal D-rings, before attaching them to the sling bar. This prevents the leg supports from sliding forward on the legs.

## Accessories

### Padded Case for Shoulder Strap

Prod. No. 3666021

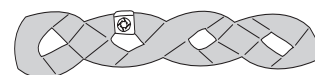
Padded cases are available as an accessory to help relieve pressure on the front shoulder straps. Padded cases are equipped with a velcro strip along one side for easy application.



### Loop Clips

Loop Clips, red, 4 pcs  
 Loop Clips, orange, 4 pcs  
 Loop Clips, yellow, 4 pcs  
 Loop Clips, blue, 4 pcs  
 Loop Clips, black, 4 pcs

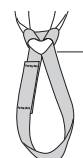
Prod. No. 3666033  
 Prod. No. 3666034  
 Prod. No. 3666035  
 Prod. No. 3666036  
 Prod. No. 3666037



### Extension Loop

Extension Loop, green, 12 cm (5 in)  
 Extension Loop, green 22 cm (9 in)  
 Extension Loop, grey, 12 cm (5 in)  
 Extension Loop, grey, 22 cm (9 in)

Prod. No. 3691102  
 Prod. No. 3691103  
 Prod. No. 3691302  
 Prod. No. 3691303



- 2 = 12 cm (5 in)  
 - 3 = 22 cm (9 in)

# Overview Liko™ HygieneVest Mod. 55

Product	Prod. No.	Size	Body weight <sup>1</sup>	Maximum load <sup>2</sup>
Liko HygieneVest	3555112	XXS	< 20 kg (< 44 lbs.)	200 kg (440 lbs)
Liko HygieneVest	3555113	XS	20-40 kg (44-88 lbs.)	200 kg (440 lbs)
Liko HygieneVest	3555114	S	30-60 kg (66-132 lbs.)	200 kg (440 lbs)
Liko HygieneVest	3555115	M	50-80 kg (110-176 lbs.)	200 kg (440 lbs)
Liko HygieneVest	3555116	L	70-100 kg (154-220 lbs.)	200 kg (440 lbs)
Liko HygieneVest	3555117	XL	90-130 kg (198-286 lbs.)	300 kg (440 lbs)

<sup>1</sup> Indicated weights are just guidelines. Deviations may occur.

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

## Recommended Combinations

Recommended combinations of Liko™ HygieneVest and Liko's sling bars:		Mini 220	Sling bars 350 <sup>3</sup>	Sling bars 450 <sup>1</sup>	Sling bars 600 <sup>4</sup>	Twin bars 670 <sup>2</sup>
HygieneVest XXS	55	1	1	1	3	4
HygieneVest XS	55	1	1	1	3	4
HygieneVest, S	55	1	1	1	3	4
HygieneVest High Back, M	55	2	1	1	3	4
HygieneVest High Back, L	55	2	1	1	3	3
HygieneVest High Back, XL	55	2	1	1	2	3

### Code:

- 1 Recommended
- 2 Possible
- 3 Not advisable
- 4 Inappropriate

<sup>1</sup> Sling bar 450 relates to Universal SlingBar 450 Prod. No. 3156075, 3156085, and 3156095, SlingBar Standard 450 Prod. No. 3156001, 3156003, 3156007, and 3156016, and also SlingGuard 450 Prod. No. 3308020 and 3308520 .

<sup>2</sup> Twin bars 670 relates to Universal TwinBar 670 Prod. No 3156077, and 3156087, and also SlingGuard 670 Twin Prod. No. 3308040 and 3308540.

<sup>3</sup> Sling bar 350 relates to Universal SlingBar 350 Prod. No. 3156074, 3156084, and 3156094.

<sup>4</sup> Sling bar 600 relates to Universal SlingBar 600 Prod. No. 3156076 and 3156086.

The above table summarizes the recommendations for each size. Different sling bar sizes will result in different degrees of pressure around the chest. Test various sizes until you find the most appropriate one.

Combinations with Liko HygieneVest and Cross-bar, Cross-bar 450/670 or Side bars is not appropriate.

## Other Combinations

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



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Liko AB is a subsidiary of Hill-Rom Holdings Inc.

Enhancing outcomes for patients and their caregivers:

