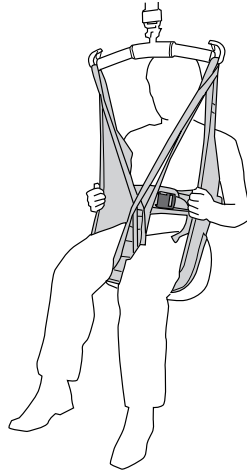


# Liko HygieneSling with Belt, Mod. 41



## Instructions for Use



### Product Description

#### Intended Use:

**Liko** Hygiene Sling (Mod 41) is designed in order to assist with dressing and undressing when lifting to and from the toilet. It is intended for use in following environments: Health care, Intensive care, Emergency ward, Rehabilitation, Habilitation and Home healthcare environment.

The **Liko** HygieneSling is designed to assist with dressing and undressing when lifting to and from the toilet, these are lifting situations that are often difficult for caregivers. Thanks to the large opening around the buttocks, dressing and undressing can be performed during the lifting procedure itself. The HygieneSling is easy to apply even if the patient is placed tightly in the wheelchair. The patient's arms should always be on the outside of the HygieneSling to ensure safety.

The HygieneSling usually works well for patients with long trousers and for patients wearing skirts and leggings.

It is necessary to have good body stability to sit well in the HygieneSling. It is often quite suitable for patients with a certain body stiffness. Mod. 41 is equipped with a belt. A correctly applied belt and the arms placed outside the sling, protects the patient from sliding out of the sling.

#### Fabrics

All sizes are manufactured in single-tone green polyester with reinforced, polyester/cotton fabric-lined leg support.

For people with compromised balance, or where the user needs one arm placed on the inside of the sling, it is recommended to use **Liko** HygieneSling with Safety belt Mod. 45. These models have a safety belt that holds and lifts the patient by the upper body if he/she sinks too low during the lifting procedure.

#### Alternative for patients with poor muscle tone

For lifts to/from the toilet for patients with poor muscle tone (and need more upper body support), it is recommended to use the **Liko** HygieneVest Mod. 55. Model 55 is equipped with built-in head support.

**⚠ The patient's arms must be kept outside HygieneSling Mod. 41 during the lifting procedure in order to avoid the risk of sliding out of the sling.**

#### Suitable lifts

The HygieneSling can be used with all **Liko** overhead and mobile lifts. You can choose between **LikoGuard** overhead lift, **Likorall** overhead lift, and **Multirall** overhead lift or **Golvo** mobile lift, **Viking** mobile lift, **Uno** mobile lift, and **Liko M220/M230** mobile lift.

*In this document, the person being lifted is referred to as the patient, and the person helping 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 a trained caregiver. To be trained, a caregiver needs to read and understand this Instructions for Use. 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.

# Safety Information

## **⚠ 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.
- The total maximum load for a lift system is always determined by the product in the system with the lowest specified maximum load.
- 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. With the straps fully extended, make sure that the straps are correctly attached to the sling bar. Do this before you lift the patient off of the surface.
- Make sure the patient is sitting securely in the sling before transferring to another location.
- Never lift a patient higher off the underlying surface than is needed to complete the lifting and transfer procedure.
- 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.
- It is recommended to remove the sling after the transfer.

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

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

**⚠ Never leave a patient unattended during a lifting situation!**

**⚠ Never leave children unattended in the vicinity of the sling!**

**⚠ Do not store the sling where it will be exposed direct sunlight, or to heat sources, such as a radiator, fireplace, or stove/oven!**

**⚠ Pinching or minor injuries can be caused by usage of a worn sling, if a sling is placed uneven on the patient or if the sling is not removed carefully.**

**⚠ Make sure that the patient and caregiver stay clear of pinch points and moving parts during a lifting event. Injury could occur.**

**⚠ Evaluate patients for entrapment risk and monitor patients appropriately. Make sure that the patient's head and limbs are not in or between sling loops during lifting event. Failure to do either of these could cause serious injury or death.**

**⚠ Do not operate, store, or transport sling in the vicinity of pets, pests, or unattended children!**

**⚠ The HygieneSling has not been tested for use in the Magnetic Resonance Imaging (MRI) setting. Transfer the patient to a compatible surface to do an MRI, and remove the sling from the MRI room.**

 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 Hillrom companies are the proprietors of European, US, and other patents and pending patent applications.

## **Product Changes**

Liko products undergo continuous development, which is why we reserve the right to make product changes without prior notice. Contact your Hillrom 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 equivalence for the medical device industry, ISO 13485.
























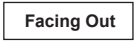

Liko is also certified according to environmental standard ISO 14001.

## **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.

## Symbol Description

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

Symbol	Description	Symbol	Description
	Warning; this situation requires extra care and attention. This symbol is a yellow triangle with a black border, and a black exclamation mark at the center.		
	Recyclable		
	Read instructions for use before use		
	CE mark. European Union medical device conformity mark, Class I Medical Device.		
	Swiss authorized representative		
	Legal manufacturer		Date of manufacture
	Product Identifier		Medical device
	Serial Number		Unique device identification
	Do not dry clean		Tumble drying
	Do not iron		Do not tumble dry
	Do not bleach		Line drying in shade
	Washing Symbol is always in combination with recommended temperature in °C and °F.		
	Latex Free		
	Periodic inspection		
	Single patient use		Patient name
	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		

# Care and Inspection

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 and Disinfection Instructions:

Please see the sling's product label and the attached appendix "Care and Maintenance of Liko Slings".

## Material:

HygieneSling is made of polyester

## 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 "Periodic Inspection Liko Textile Products". For protocols please contact your Hillrom representative.

## Expected Life Time

The product has an expected life time of 5 years during normal use. Expected life time varies depending on the fabric, use frequency, washing procedure, and weight carried. Hillrom recommends the product be used only during its expected life time

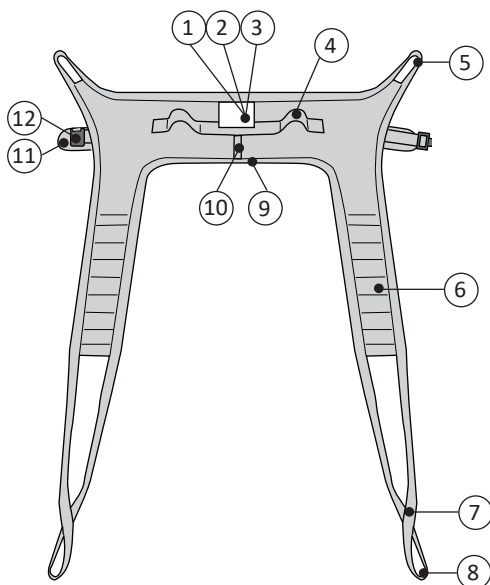
## Recycling Instructions


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

Hillrom 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.

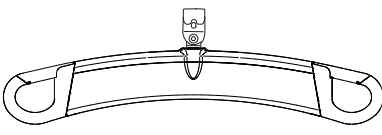
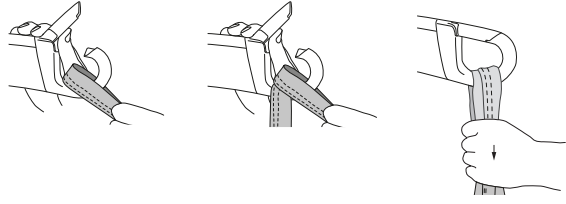
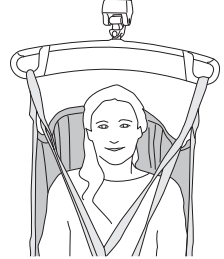
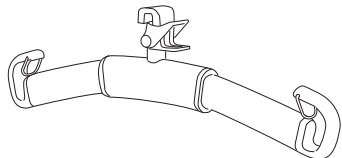
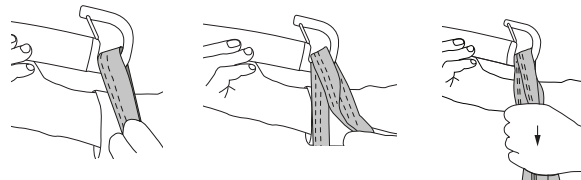

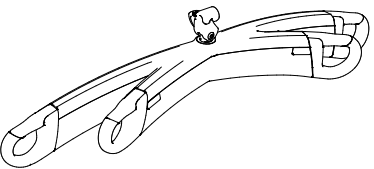
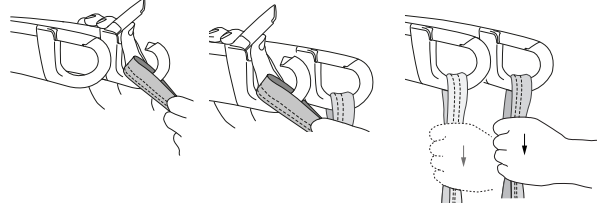
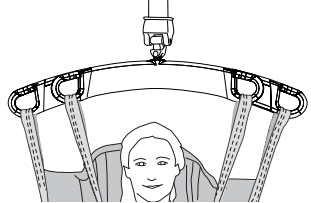
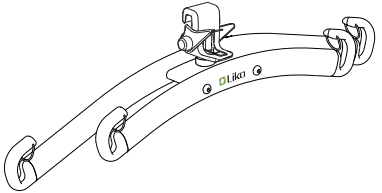
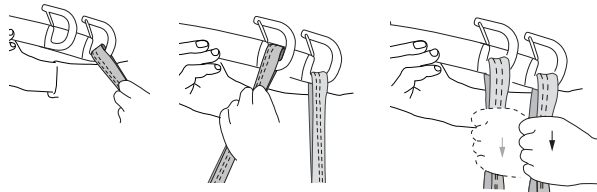
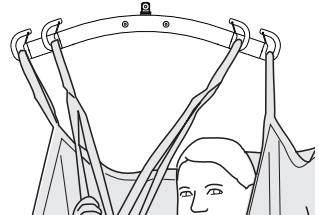
If in doubt, the user of the device shall first contact Hillrom Technical Support for guidance on safe disposal protocols.

# Definitions

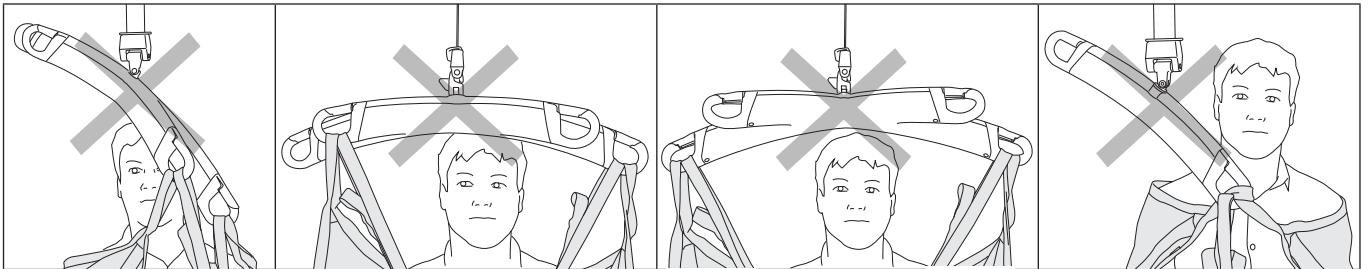


1. Product label, including:  
Manufacturing year and month (  )  
Serial number ( **SN** )
2. Label: Individual marking (Belongs to)
3. Label: Periodic Inspection
4. Handle
5. Upper strap loop
6. Leg support
7. Shortening position
8. Outer leg support loop
9. Lower edge
10. Center back strap with size color:  
(XS = Red, S = Orange, M = Yellow, L = Blue, XL = Black)
11. Belt
12. Buckle (Tested strength up to 200 kg (440 lbs.) by the supplier of the buckle)

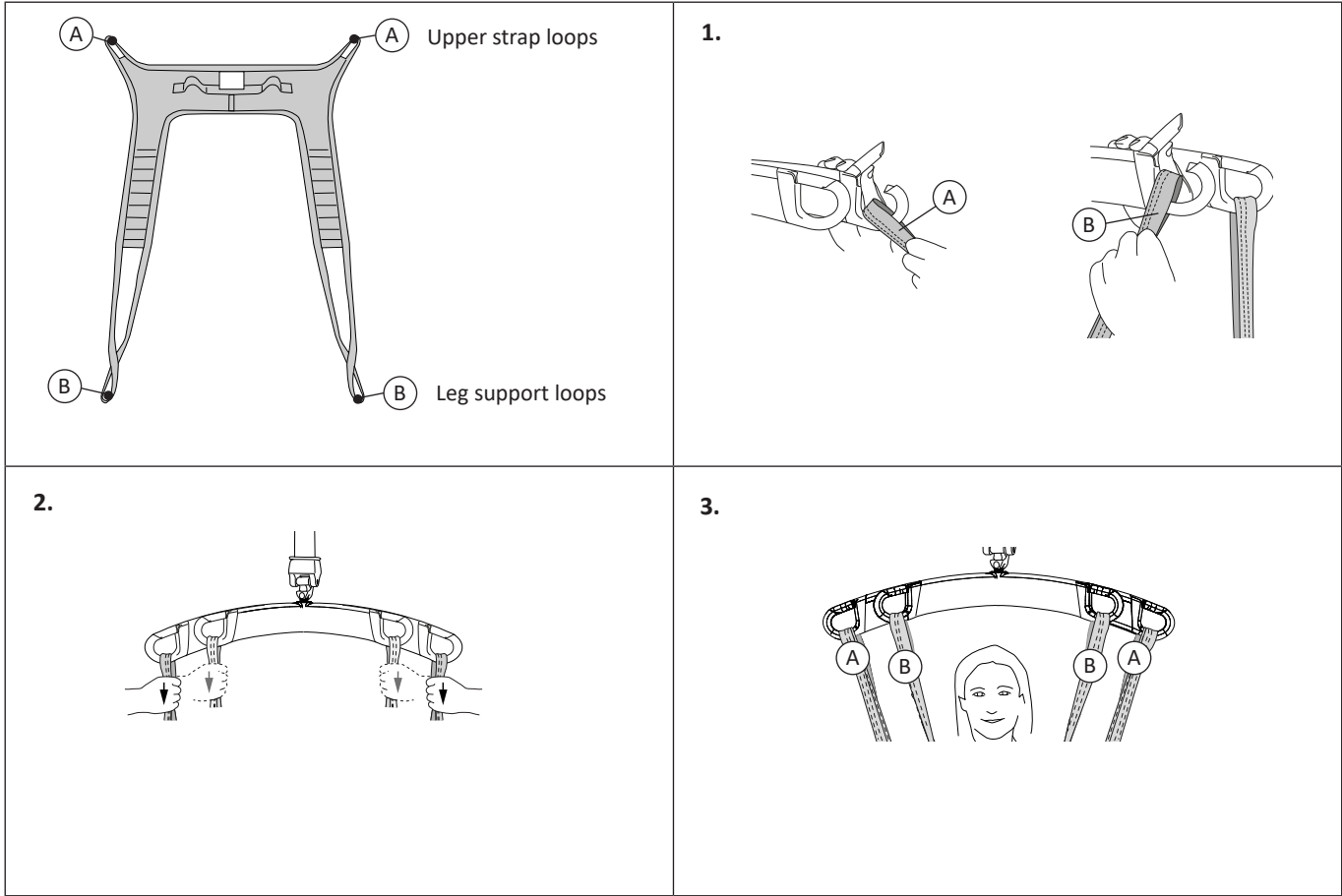
## How to Attach a Sling to Different Sling Bars

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 HygieneSling to a Sling Bar with 4 Hooks (Twin Bars)



## How to Select Sling Size

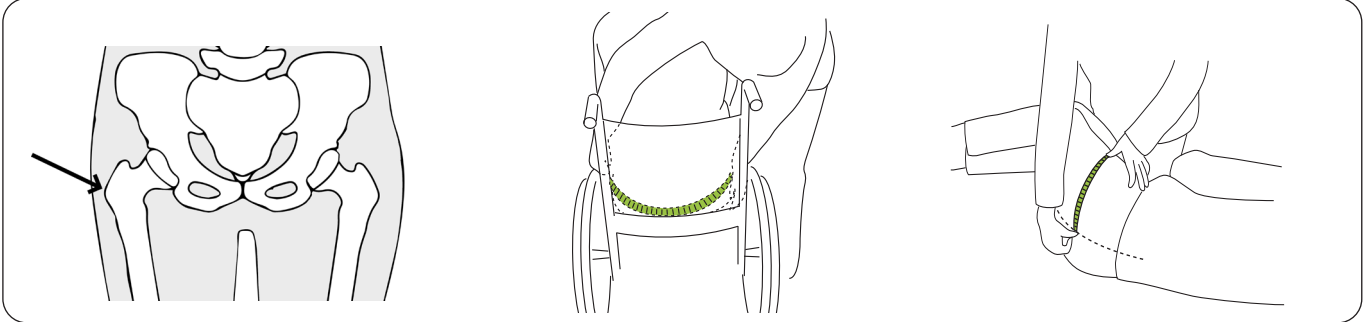
**⚠️ Only use a sling that is the correct size for the patient. Correct size must be assessed by a trained caregiver. Patient entrapment or asphyxiation could occur.**

The hip width measurement on the patient and on the sling gives guidance when choosing the size of the sling. Compare the measurement of the patient (see instruction for measuring) and the measurement of the sling (see table or instruction for measuring).

### Choosing the correct size:

Choose a sling with a hip width measurement that is within +/- 8 cm (3 in.) of the patient's hip width measurement.

### Measure the hip width of the patient as follows:

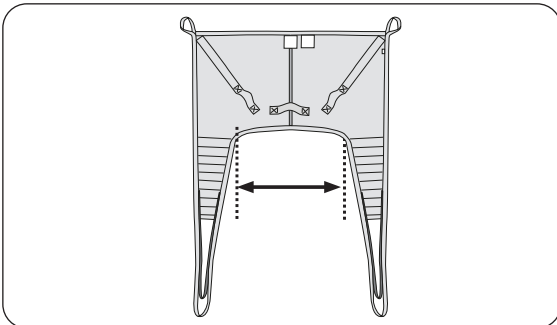


**Trochanter:** The trochanter is the part of the femur that can be felt at the patient's hip. Apply gentle pressure to find the trochanter for measurement.

**Alternative A.** With the patient leaned forward, measure the hip width at the widest place i.e. from one trochanter to the other trochanter.

**Alternative B.** With the patient on their side, measure from the trochanter to the midline/backbone and multiply by 2.

Refer to "Dimensions" on page 8 for the hip width of the sling as follows:

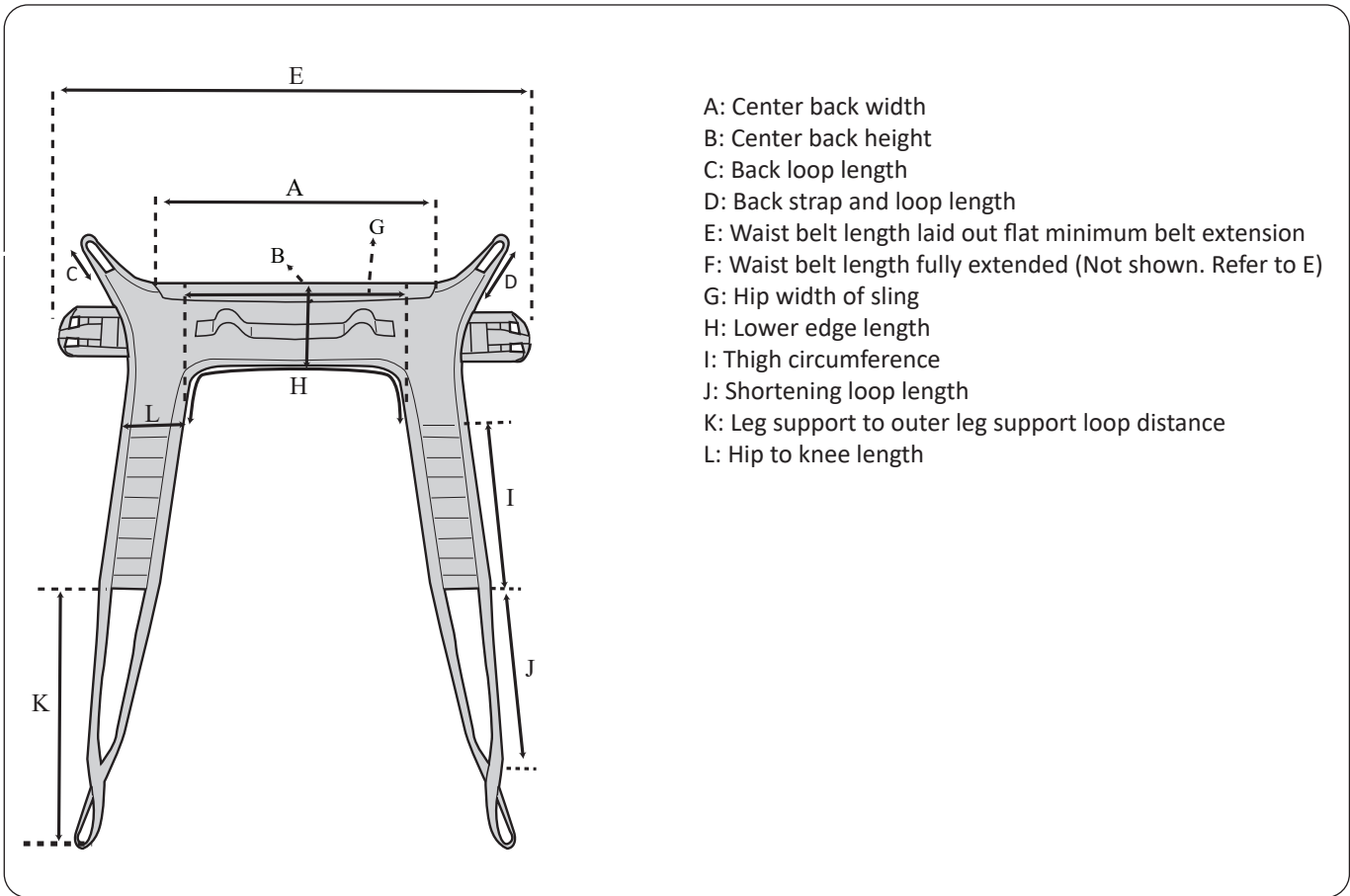


### Hip width measurement

Sling Size	Hip Width
XS	43 (17)
S	49 (19)
M	59 (23)
L	70 (28)
XL	74 (29)

All measurements are in cm (in.).

## Dimensions



### Size Measurements in Centimeters

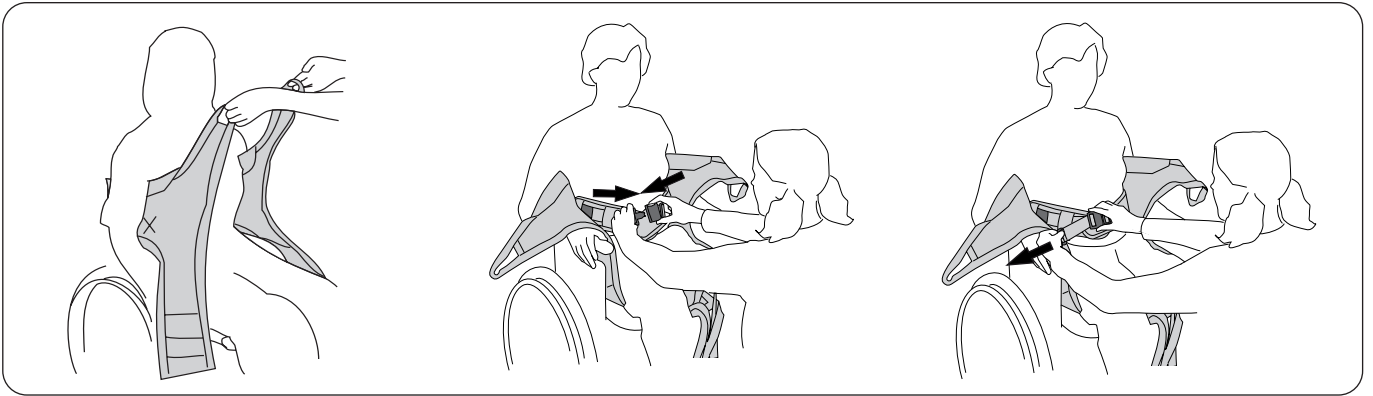
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	Maximum load (kg)	Prod. No.
XS	63	17	15	24	45	81	43	73	37	39	49	11	200	3541133
S	69	24	20	32	58	105	49	64	46	38	54	14	200	3541134
M	80	28	20	25	82	115	59	74	52	37	53	15	200	3541135
L	90	29	20	27	87	136	70	85	60	38	53	16	200	3541136
XL	105	29	20	23	111	202	74	104	60	42	58	17	300	3541137

### Size Measurements in Inches

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	Maximum load (lbs)	Prod. No.
XS	25	7	6	9	18	32	17	29	14	15	19	4.	440	3541133
S	27	9	8	12	23	41	19	25	18	15	21	6	440	3541134
M	32	11	8	10	32	45	23	29	20	15	21	6	440	3541135
L	35	11	8	10	34	54	28	34	23	15	21	6	440	3541136
XL	41	11	8	9	44	80	29	41	23	17	23	7	660	3541137

## Lifting from Wheelchair to Toilet

Prepare the patient for the undressing sequence e.g. by unbuttoning buttons and loosening drawstrings.



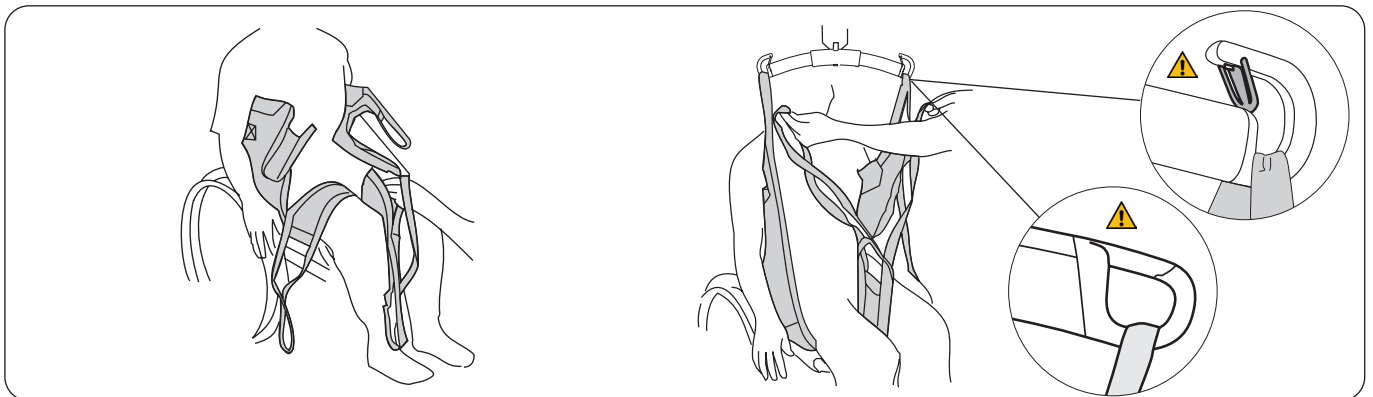
Place the HygieneSling with its product label at the center of the patient's back. The padded upper edge should be just under the armpits.

**⚠️ Arms on the outside!**

**Buckle the belt.**

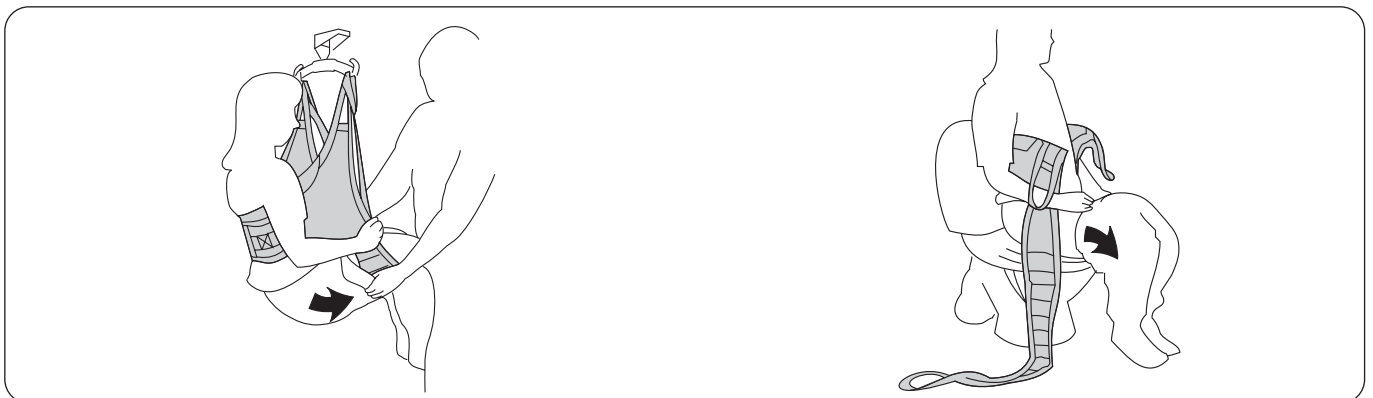
Adjust the belt so that it fits around the patient's upper body.

**⚠️ Do not further tighten the belt once the patient has been lifted, since this can cause the patient to be strapped in too tightly once lowered.**



Place the leg supports under the patient's legs. Cross the leg supports by feeding one leg support loop through the other.

First connect the upper strap loops, then the leg support loops on the slingbar. See page 5 and page 6 for instructions on how to attach the sling loops to different sling bars.



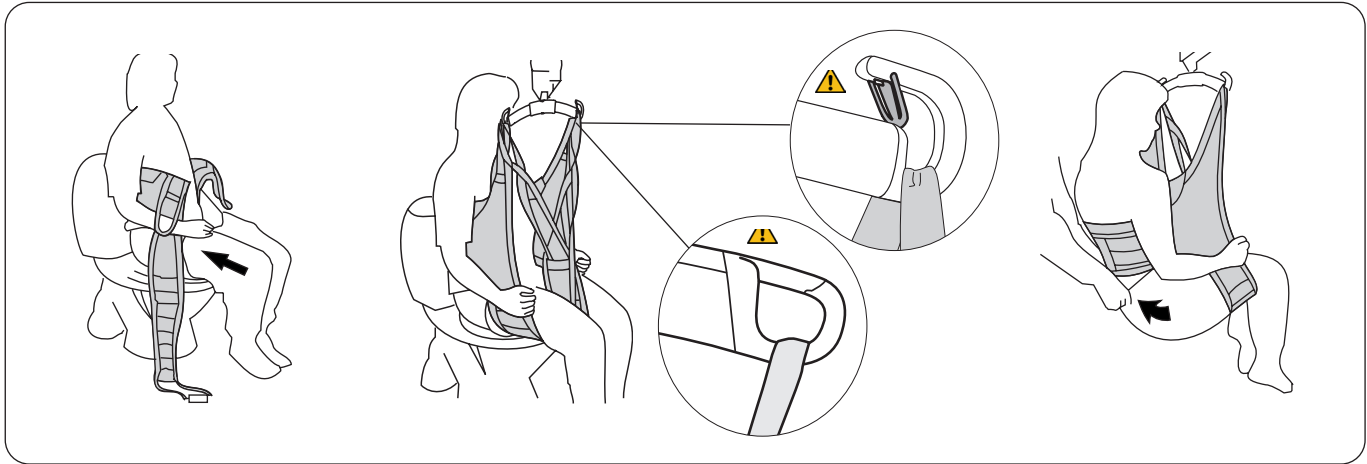
Lift the patient. Pull down the pants as far as possible.

Lower the patient onto the toilet. Fold away the leg supports and pull down the pants further for better accessibility.

## Returning from Toilet to Wheelchair

Following are two descriptions of how to put the clothes back on after a concluded toilet visit. The option you choose depends on the clothing and the physical state of the patient.

**Alternative 1:** Leg supports outside the pants. This is suitable for inelastic pants.



Pull up the pants as far as possible.

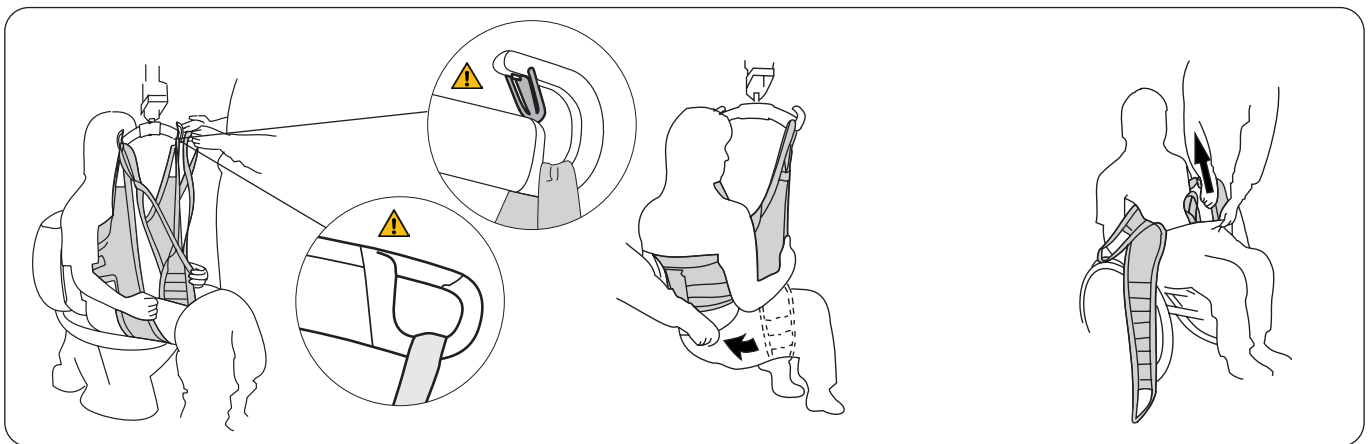
Place the leg supports under the legs but outside the pants.

**⚠️ Arms on the outside!**

First connect the upper strap loops to the slingbar, then the leg support loops. See page 5 and page 6 for instructions on how to attach the sling loops to different sling bars. Lift the patient.

If necessary, place an incontinence pad inside the pants before they are pulled into place over the buttocks. Perform the transfer and lower the patient into the wheelchair.

**Alternative 2:** Leg supports first – pants outside. This method is suitable for elastic pants.



Place the HygieneSling on the patient according to the instructions on page 9. First connect the upper strap loops to the slingbar, then the leg support loops. See page 5 and page 6 for instructions on how to attach the sling loops to different sling bars. Lift the patient.

Pull the pants up around the buttocks and sling when the patient has been raised and is still sitting in the HygieneSling. Lower the patient into the wheelchair.

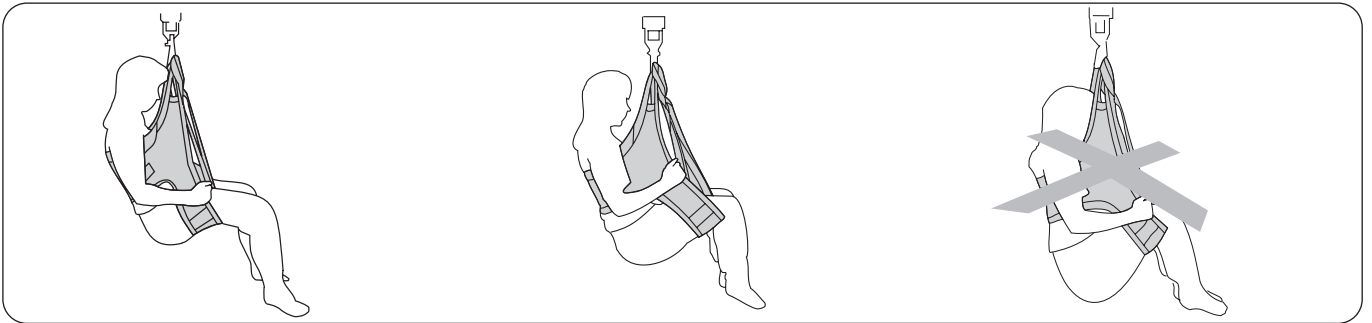
Carefully work the leg supports out of the pants and remove the HygieneSling.

If needed, place an incontinence pad inside the crossed leg supports.

## Advice for Trial Fitting

⚠ The sitting position depends on where the leg supports are placed under the patient's legs. For someone with poor muscle tone, they should be placed high up toward the groin so that the patient does not sit too low in the sling.

Patients with poor muscle tone usually sit better in a smaller HygieneSling size. For users with high muscle tone, the opposite applies. They sit better in a larger HygieneSling, provided that the back support is placed high enough and the leg supports are close enough to the bends in the knees.



The leg supports should be placed as close to the groin as possible in most cases, especially on patients with very poor muscle tone. A smaller size can be advantageous in this case.

The leg supports can be placed closer to the bend in the knees for those with high muscle tone. This makes dressing and undressing easier and helps reduce spasticity. A larger size can be advantageous in this case.

A too low and uncomfortable seating position is due either to the leg supports being too close to the bend in the knees, or to the sling being too large. Try a smaller size.

### Shortening position

In certain cases, it is advantageous to shorten the leg supports for the patient to sit well in the HygieneSling.

The shortening position can be used temporarily in order to test for the right length, yet extended use may damage seams. If you want to shorten the leg supports for long-term use, it is recommended that you tie a knot into the leg support loop to shorten it about 10 cm (4 inch). Then it is the outer leg support loop that should be connected to the slingbar.

## Alternative Slings for Lifting to and from the Toilet

In our wide selection of slings, there are many models that can be used for toilet-related lifting situations. Please visit [www.hillrom.com](http://www.hillrom.com) for more information. Following is a sampling of possible alternative slings:

**Liko** HygieneSling with Safety Belt, Mod. 45

**Liko** HygieneVest High Back, Mod. 55

**Liko** MasterVest, Mod. 60

**Liko** MasterVest with front closure, Mod. 64

### Accessories

Extension Loop, green, 12 cm (5 in)

Extension Loop, green 22 cm (9 in)

Extension Loop, grey, 12 cm (5 in)

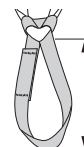
Extension Loop, grey, 22 cm (9 in)

Prod. No. 3691102

Prod. No. 3691103

Prod. No. 3691302

Prod. No. 3691303



- 2 = 12 cm (5 in)

- 3 = 22 cm (9 in)

## Overview, LIKO HygieneSling, Mod. 41

Name	Prod. No.	Size		Patient's weight <sup>1</sup>	Maximum load <sup>2</sup>
<b>Liko</b> HygieneSling	3541133	XS	Extra small	< 30 kg (< 66 lbs.)	200 kg (440 lbs.)
<b>Liko</b> HygieneSling	3541134	S	Small	25-50 kg (55-110 lbs.)	200 kg (440 lbs.)
<b>Liko</b> HygieneSling	3541135	M	Medium	40-90 kg (88-198 lbs.)	200 kg (440 lbs.)
<b>Liko</b> HygieneSling	3541136	L	Large	80-120 kg (176-265 lbs.)	200 kg (440 lbs.)
<b>Liko</b> HygieneSling	3541137	XL	Extra large	> 100 kg (> 220 lbs.)	300 kg (660 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.

**A size that is too large leads to risk of slippage; a size that is too small can cut into the groin and cause discomfort. See additional information under "Advice for Trial Fitting" on page 11.**

### Recommended Combinations

Sling bar Compatibility Chart								
	Mini 220	Universal SlingBar 350	Universal SlingBar 450	Standard 450	SlingGuard 450	Universal TwinBar 670	SlingGuard 670 Twin	Sabina II 350 Slingbar*
<b>Liko</b> HygieneSling, XS	✓	✓	✓	✓	✓			✓
<b>Liko</b> HygieneSling, S	✓	✓	✓	✓	✓			✓
<b>Liko</b> HygieneSling, M	✓	✓	✓	✓	✓			✓
<b>Liko</b> HygieneSling, L	✓	✓	✓	✓	✓	✓	✓	✓
<b>Liko</b> HygieneSling, XL	✓	✓	✓	✓	✓	✓	✓	✓

\* The HygieneSling can be used for passive lifting. Refer to the **Sabina II** Instructions for Use.

**Explanation:** ✓ = Recommended

Combinations with **Liko** Hygiene Sling and Cross-bar, Cross-bar 450/670 or SideBars is not appropriate.

While this chart serves as guidance, it is important to acknowledge that various circumstances may render a sling- sling bar combinations inappropriate. Approved combinations in the matrix must still be assessed and validated by a trained health care professional.

### Other Combinations

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

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

Liko AB  
Nedre vägen 100  
975 92 Luleå, Sweden  
+46 (0)920 474700

Enhancing outcomes for  
patients and their caregivers:

**Hill-Rom**

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