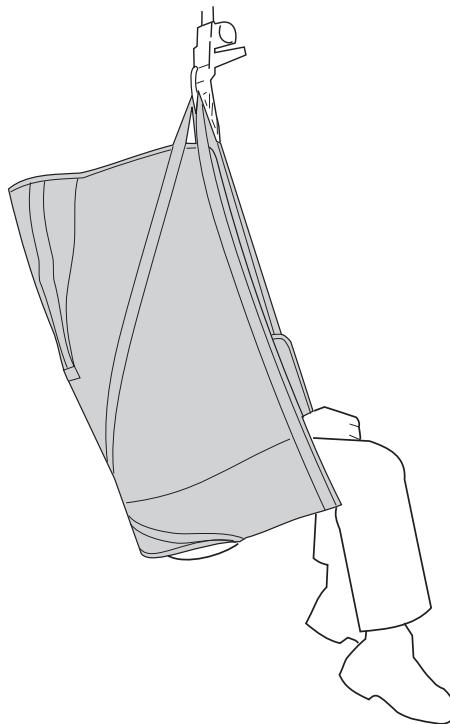


Solo HighBack Sling



Instruction Guide



Product Description

Solo HighBack Sling holds the patient comfortably and securely. With its innovative "wrap-around" design, Solo HighBack Sling is very easy to put on and remove. Solo HighBack Sling is designed for adaptation to patients without the need for individual adjustments. A properly fitted and carefully applied Solo HighBack Sling ensures a high degree of comfort and a good feeling of security for the patient.

Solo HighBack Sling provides support for the entire body, and gives a slightly reclined sitting posture, which is appropriate for patients with poor torso stability. For larger sizes of the sling, a combination with a twin bar 670 can be the perfect choice.

Solo HighBack Sling is recommended for lifting to and from the bed, wheelchair or toilet.

It is important to choose the right size to ensure optimal comfort and safety. A patient may be at risk of sliding out of a sling which is too large, while a sling that is too small may be tight in the crotch and cause discomfort.

The Solo HighBack Sling can be used along with all of Liko's overhead and mobile lifts. You can choose between the overhead lifts LikoGuard™, Likorall™, and Multirall™ or the mobile lifts Golvo™, Viking™, Uno™, and Liko™ M220/M230.

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

Symbol description

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

 reference to read instruction guide for detailed information.

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.
- 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: 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.
- 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.
- Ensure that no pointed or sharp objects come in contact with the product.
- Avoid pulling or tugging the sling when positioning the patient in a wheelchair or bed.
- Always work ergonomically. Use the patient's ability to actively participate in the operations.

Medical Device Class I Product

Liko Solo HighBack Sling complies with the harmonized standard ISO10535:2006

The management system for both manufacturing and development of the product is certified in accordance with ISO9001 and its equivalent for the medical device industry, ISO13485. The management system is also certified in accordance with the environmental standard ISO14001.

PATENT www.hill-rom.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.

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 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. Instruction guides can be downloaded, free of charge, at www.liko.com.

Care and Maintenance

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

- Fabric
- Straps
- Seams
- Suspension loops

⚠ Do not use damaged lifting accessories.

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



DO NOT WASH. The caution label situated on the back section of the sling displays the DO NOT WASH symbol. If the sling is washed this label disintegrates to display the DO NOT USE symbol. The sling must then be disposed of.

Expected Life Time

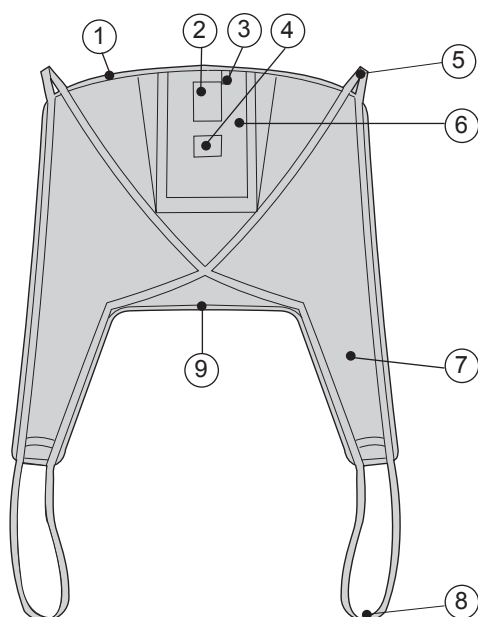
⚠ Solo HighBack Sling is a disposable item intended for individual use only. When the correct size has been determined for a particular patient write the patient's name on the product label on the back section of the sling.

The Solo HighBack Sling should no longer be used:

- if it is soiled or if it is suspected of being contaminated
- if it is damaged
- when the patient no longer requires it.

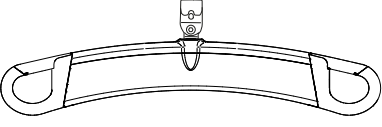
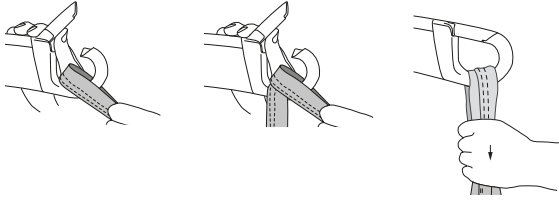
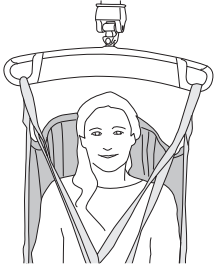
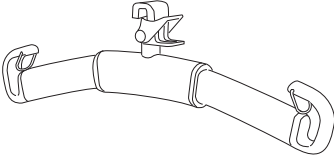
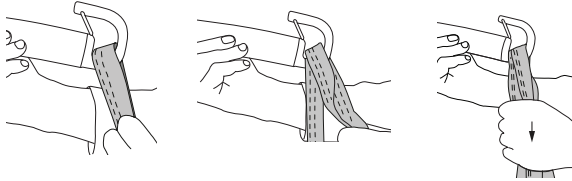

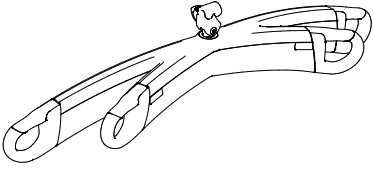
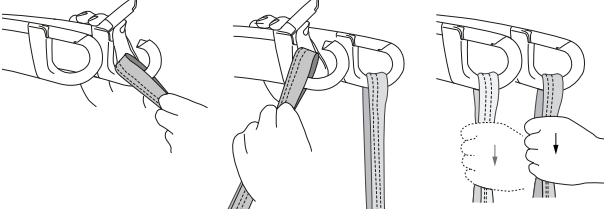
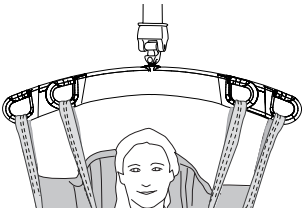
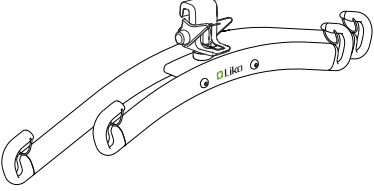
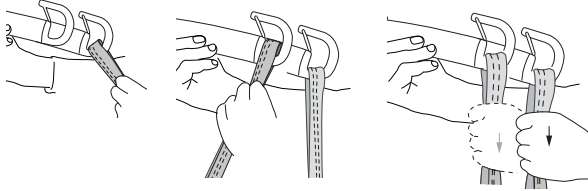
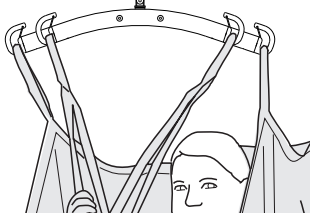
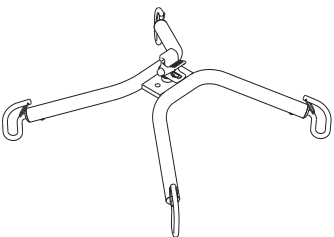
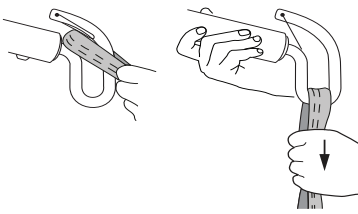
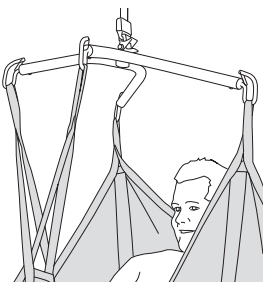
Dispose of the sling in accordance with hospital or care facility legislation.

Definitions

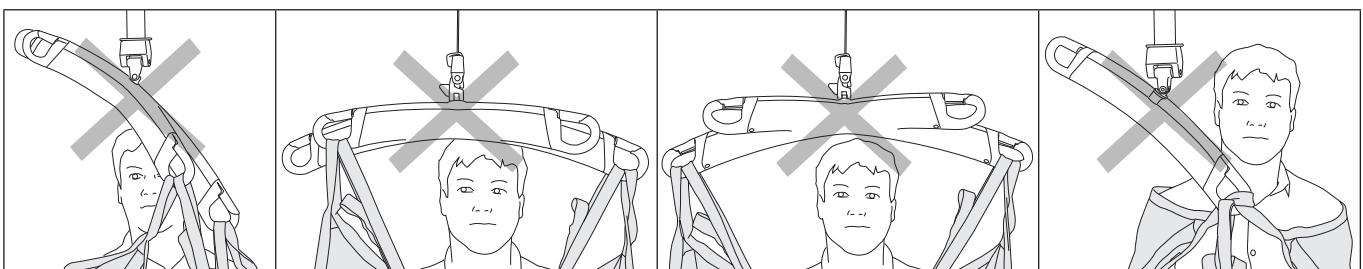


1. Edging (size marking)
2. Product label
3. Label: Year/month of production
4. Caution label: Do not wash
5. Upper strap loop
6. Head support
7. Leg support
8. Leg support loop
9. Lower edge

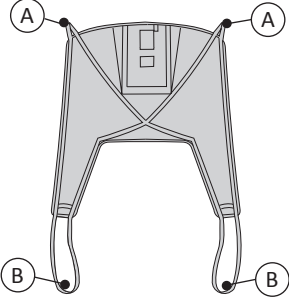
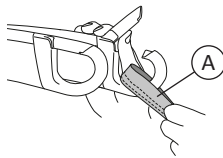
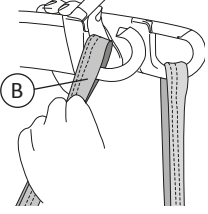
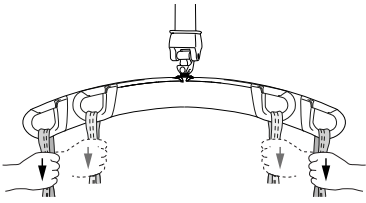
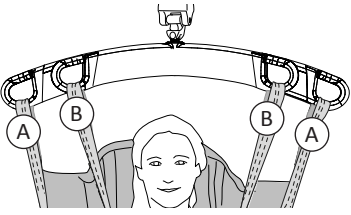
How to Attach a Sling to Different Sling Bars

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

Wrong!

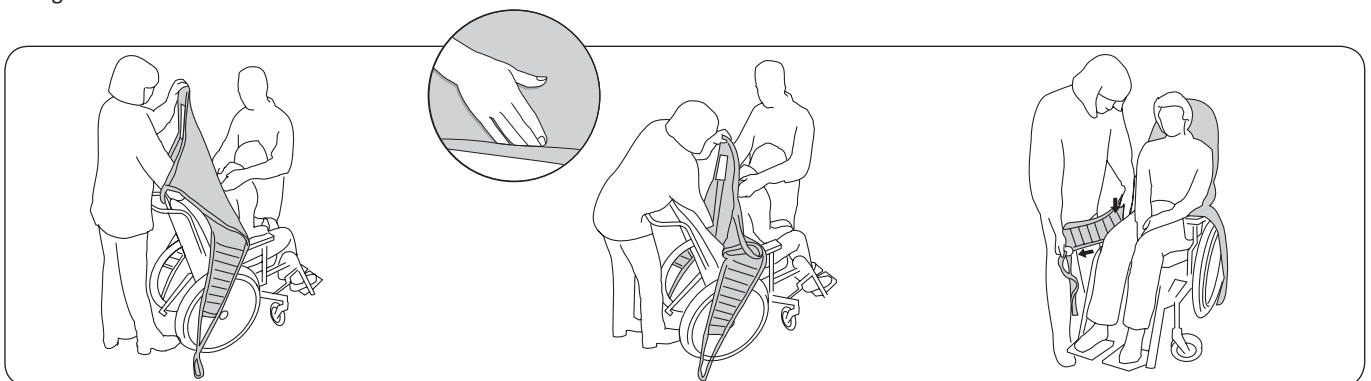


How to Attach a Solo HighBack Sling to a Sling Bar with 4 Hooks (Twin Bars and Cross Bars)

 <p>Upper strap loops (A)</p> <p>Leg support loops (B)</p>	<p>1.</p>  
<p>2.</p> 	<p>3.</p>  <p>The illustrations 1, 2, and 3 shows a twin bar but this also applies to a Cross-bar.</p>

Lifting from a Seated Position

It is recommended that two caregivers assist with the application of the sling according to ergonomic principles. Normally, the patient should be leaned forward somewhat during application, and one caregiver must stand in front of the patient to prevent him/her from falling forward.

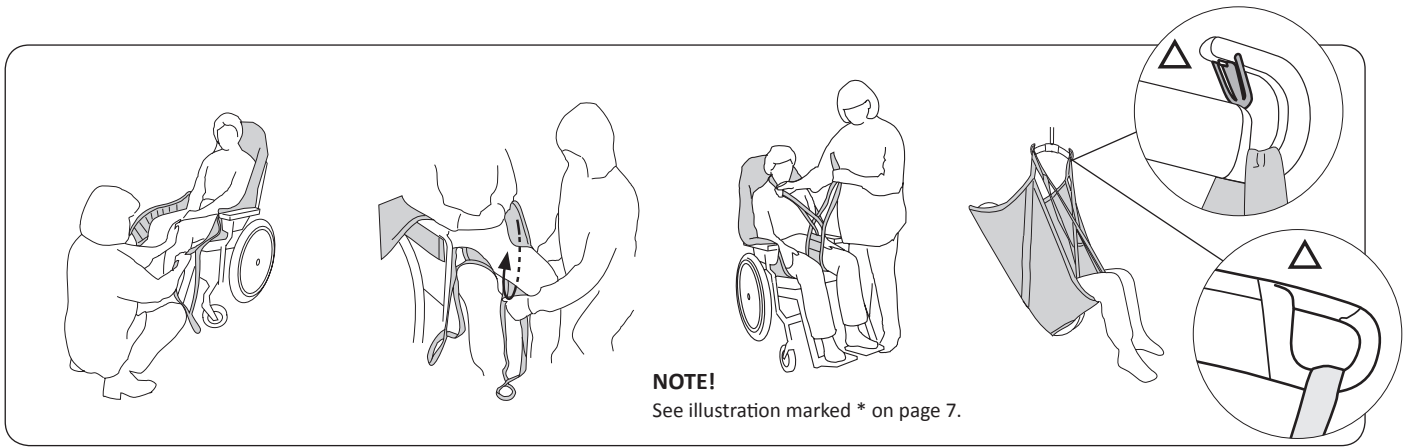


Place the sling behind the patient's back with the product label facing out. Fold the lower edge over your fingertips to make it easier to guide the sling into position.

With the palm of your hand, press the lower edge of the sling down to the patient's coccyx, **this is very important**. Correct positioning is facilitated if the patient leans forward somewhat.

Pull the leg supports out alongside the outside of the thighs. **Helpful hint:** By placing your palm between the body and the leg support, you can guide the leg support's lower edge strap down to the seat. At the same time, pull the leg support forward with your other hand to stretch it out.





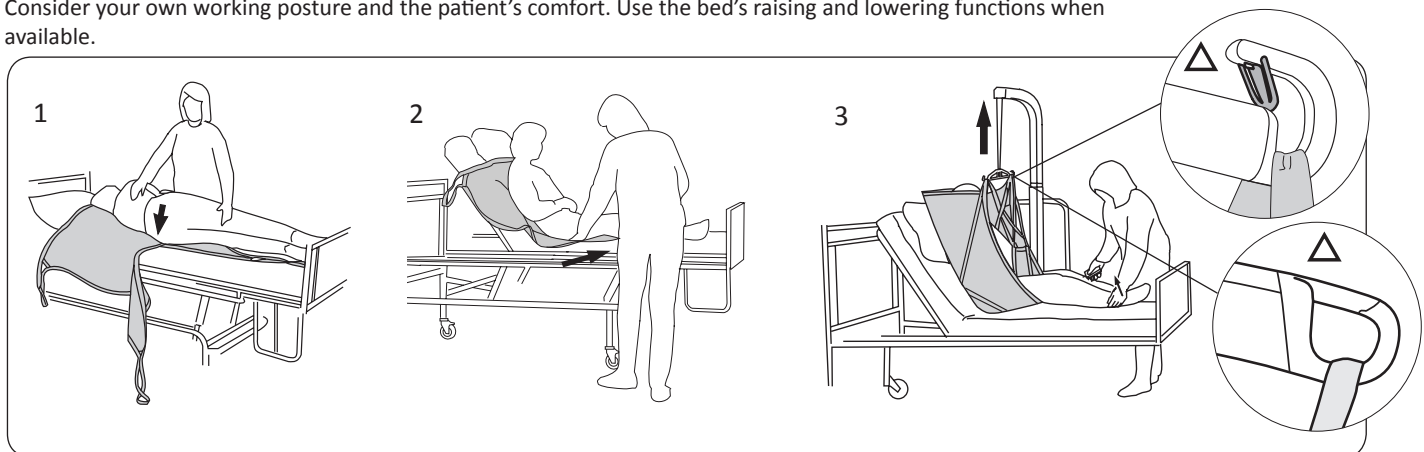
Helpful hint: Applying light pressure to the kneecaps will allow you to pull the leg supports taut against the buttocks and smooth out any creases near the back. Make sure both leg supports reach equally far forward.

Guide the sling's leg supports under each thigh. Make sure the fabric is smoothed out under the thighs and that it reaches properly around the legs.

Normally, one leg support is passed through the other to cross before they are hooked to the slingbar. Hang the upper strap loops on the slingbar, then the leg support loops. See page 4-5 for instructions on how to attach the sling loops to different sling bars. Lift the patient.

Lifting from a Horizontal Position

Consider your own working posture and the patient's comfort. Use the bed's raising and lowering functions when available.



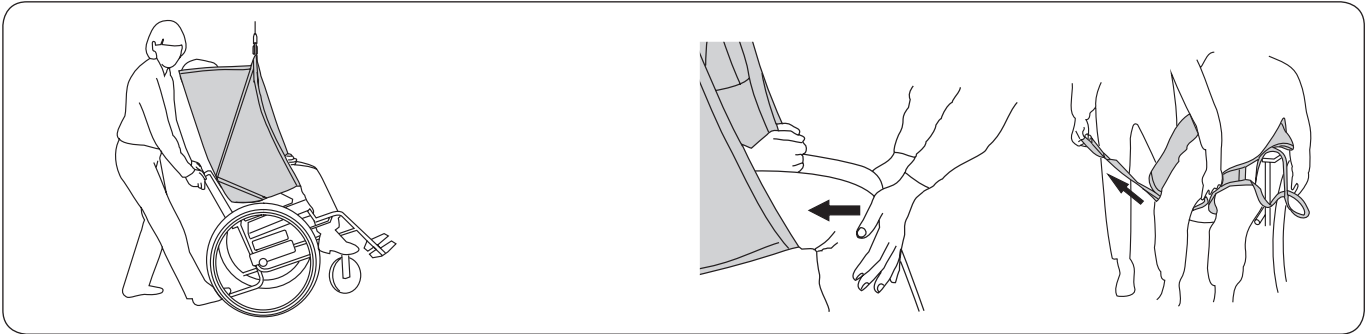
1. Turn the patient towards you to prevent the risk of him/her falling out of the bed. Place the lower edge of the sling as far down under the patient as possible, so that it is in **level with the patient's coccyx**. Bunch the sling together in a couple of folds and lay it so that its "center of the back" corresponds to the position of the patient's spine when he/she is gently turned back. Carefully work the sling out from the opposite side. Raise the backrest of the bed if available.

2. Slide the leg supports in place under the thighs. This is easiest if the knees are bent. Make sure the fabric is smoothed out under the thighs and that it reaches properly around the legs. The leg supports can then be hooked to the slingbar in different ways.

3. If necessary, place a small pillow under the patient's head. Hang the upper strap loops to the slingbar first, then the leg support loops. See page 4-5 for instructions on how to attach the sling loops to different sling bars. Lift the patient.

Lifting to a Chair

When placing the patient in the wheelchair it is important that he/she is placed far enough back in the chair to sit comfortably. There are several ways to do this.

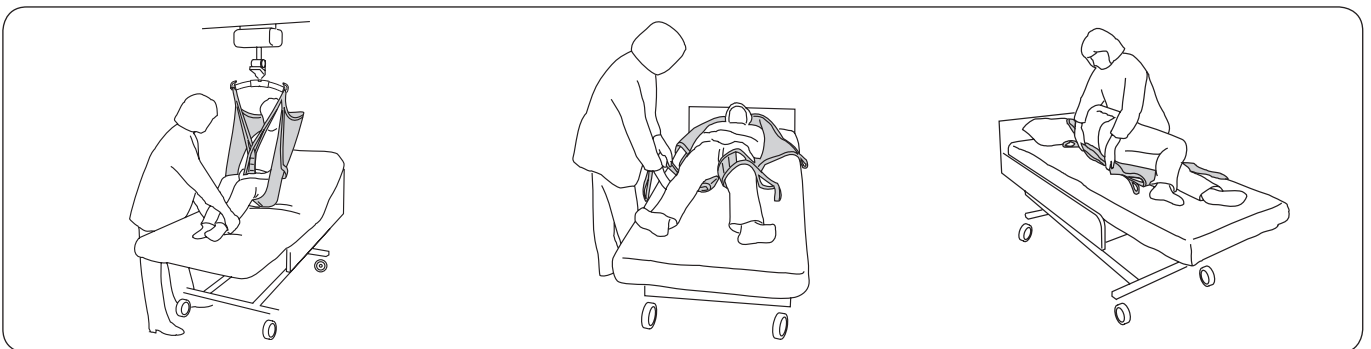


To facilitate placement in the chair, tilt the chair back somewhat during lowering. Let the patient's bottom slide down the back of the chair during the final stage of lowering. Guide the position of the wheelchair by placing your foot on the tipping lever.

Alternative: Press lightly under the patient's knees during lowering so that his/her bottom is guided in towards the back of the chair. Carefully remove the leg supports. The gentlest way is to pass the strap beneath the leg support and pull it out *under* the fabric. Remove the sling by pulling it carefully upwards.

Lifting to a Horizontal Position

Consider your own working posture and the patient's comfort. Use the bed's raising and lowering functions when available.

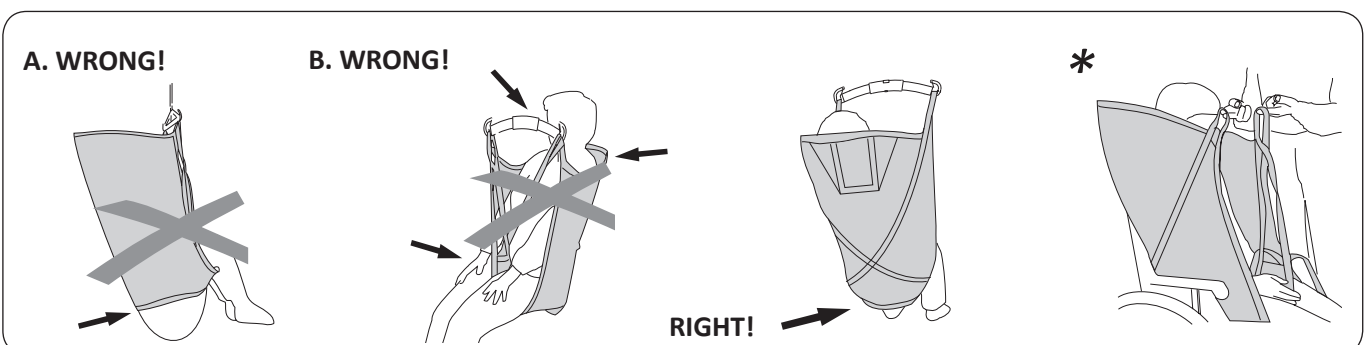


Guide the patient over the bed and raise the back support for best possible comfort. Lower the patient to the bed. Lower the back support.

Remove the leg supports by pulling the strap loops out under the fabric.

Turn the patient carefully on one side and roll the sling in under him/her. Turn the patient gently on his/her back and carefully remove the sling.

The Patient does not Sit Well in the Sling – Why is this?



A. WRONG! The bottom is hanging down. **Risk of slipping out of the sling.** The sling may be too large. Another reason may be that the sling has not been pulled far enough down the back during application. Before lifting, make sure that the sling has been tightened about the buttocks (by pulling on the leg supports).

B. A sling that is too small may result in the slingbar coming too close to the face, being tight in the crotch and causing discomfort, and/or not providing enough support for the back/head.

RIGHT! The sling's lower edge is in level with the coccyx. Leg supports are correctly positioned under the legs.

*** Helpful hint:** Make sure all strap loops are of equal length, i.e., reach the same height when they are extended before lifting. If not, adjust the position of the sling.

Overview Solo HighBack Sling, Mod. 25

Product	Prod. No.	Size	Patient weight ¹	Maximum load ²
Solo HighBack Sling	3525911	Medium Slim	30-50 kg (66-110 lbs)	200 kg (440 lbs)
Solo HighBack Sling	3525915	Medium	40-80 kg (88-176 lbs)	200 kg (440 lbs)
Solo HighBack Sling	3525916	Large	70-120 kg (154-265 lbs)	200 kg (440 lbs)
Solo HighBack Sling	3525917	Extra Large	110-250 kg (243-551 lbs)	500 kg (1100 lbs)

¹ The indicated patient weight is a guideline only – there may be deviations.

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

If the sling is too large, the patient may risk slipping out of it.

A sling that is too small can be tight in the crotch and cause discomfort.

Material: Size MS, M and L are made of Nonwoven Polypropylen
Size XL is made of Nonwoven Polyester

Accessories: Lath, Prod. No. 31590007

Recommended Combinations

Recommended combinations of Solo HighBack Sling and Liko slingbars:	Mini 220	Slim 350	Universal 350	Standard 450	Sling bars 450 ¹	Universal 600 ²	Wide 670	Twin bars 670 ³	Sling Cross-bar 450	Sling Cross-bar 670	SideBars + Slim 350	Univ. SideBars + Universal 350	SideBars + Standard 450	Univ. SideBars + Universal 450
Solo HighBack Sling, MS	3	2	2	1	1	2	3	2	1	1	2	2	2	1
Solo HighBack Sling, M	3	2	2	1	1	1	1	1	1	1	2	1	1	1
Solo HighBack Sling, L	3	3	3	1	1	1	1	1	2	1	2	1	1	1
Solo HighBack Sling, XL	4	3	3	2	1	1	1	1	2	1	3	2	1	1

¹ Sling bars 450 relates to Universal SlingBar 450 Prod. No. 3156075, 3156085, and 3156095, and also SlingGuard 450 Prod. No. 3308020 and 3308520.

² Applicable only if the leg supports overlap under both legs.

³ Twin bars 670 relates to Universal TwinBar 670 Prod. No. 3156077, and 3156087, and also SlingGuard 670 Twin Prod. No. 3308040 and 3308540.

Explanation: 1 = Recommended, 2 = May work, 3 = Not advised, 4 = Inappropriate

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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Enhancing outcomes for
patients and their caregivers:

