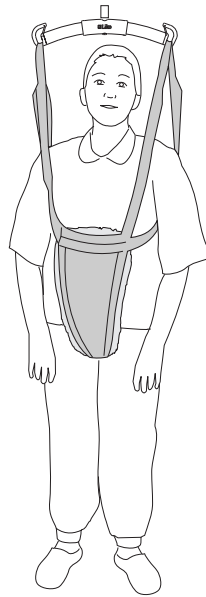


# Liko LiftPants Sling, Mod. 92



## Instructions for Use



### Product Description

#### Intended Use

**Liko** LiftPants sling facilitates safe and secure standing and gait training for patients with poor balance and leg function, giving them the confidence to take new steps. It is intended for use in following environments: Health care, Intensive care, Emergency ward, Rehabilitation, Habilitation and Home healthcare environment.

It is essential that the patient is able to bear weight on their legs. LiftPants sling enable freedom of movement, while relieving some of the burden of body weight. They lift safely, allowing the patient to move on their own without the risk of falling. During training, the lift is ready to take all the weight, so the patient and caregiver can devote all their attention to training without having to worry about the consequences of a wrong step.

LiftPants sling take most of the weight in the crotch, which may be appropriate for patients who are sensitive to pressure around the upper body or under the arms.

A padded crotch relieves the pressure.

The LiftPants sling has not been tested for use with pregnant patients.

#### Sizes

LiftPants sling are available in a range of sizes to fit different heights and body measurements.

#### Suitable lifts

LiftPants sling can be used with Liko's overhead and mobile lifts.

With an overhead lift, the patient can move freely within the entire lifting area, using a **LikoGuard** overhead lift, **Likorall** overhead lift or **Multirall** overhead lift. LiftPants sling can also be used with Liko's mobile lifts; ideally with **Golvo** mobile lift, **Uno** mobile lift or **Viking** mobile lift. During training in LiftPants sling, it may be an advantage for some patients if some of the weight is relieved by the arms, for example with a walking support (walker, canes).

#### Alternatives

As an alternative to **Liko** LiftPants sling, we recommend **Liko** MasterVest, Mod. 60.

*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 the 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.
- To protect patient safety and hygiene, do not use the sling for multiple patients.
- 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 off the underlying surface than is needed to complete the lifting and transfer procedure.
- 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.

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

**⚠ 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 to direct sunlight, or to heat sources, such as a radiator, fireplace, or stove/oven!**

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

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

**⚠ 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.**

**⚠ The LiftPants sling has not been tested for use with pregnant patients.**

**CE** 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's 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**




























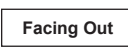

Liko is quality certified according to ISO 9001 and its equivalent for the medical device industry ISO 13485. Liko is also certified according to environmental standard ISO 14001.

### **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.

# 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. This symbol is a blue circle with a white image of a person reading a book.		
	Read instructions for use before use		<b>Caution!</b> consult instructions for use.
	CE-mark. European Union medical device conformity mark, Class I Medical Device.		
	Swiss authorized representative		
	Legal manufacturer		Date of manufacturing
	Product Identifier		Medical device
	Serial Number		Unique device identification
	Do not dry clean		Line drying in shade
	Do not iron		Do not bleach
	Tumble drying		Do not wash
	Do not tumble dry		
	Washing Symbol is always in combination with recommended temperature in °C and °F.		
	Latex Free		
	Periodic inspection		
	Do not use product (Only on Solo products, and only visible after wash when use is prohibited)		Patient name
	Single patient use (only on Solo products)		
	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
- Loops

⚠ **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:** The LiftPants accessory is made of polyester

**If the sling is used for bath or shower:** After use in bath and shower situations, the sling should be placed so that it dries as soon as possible.

### 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. For protocols please contact your Hillrom representative.

### Expected Lifetime

The product has an expected lifetime of 3 years during normal use. Expected lifetime varies depending on the fabric, use frequency, washing procedure, and weight carried.

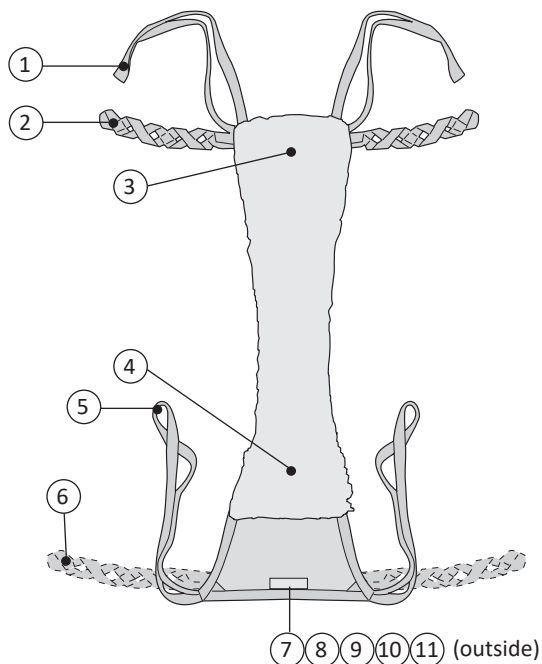
### ♻ Recycling Instructions

The entire sling, 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

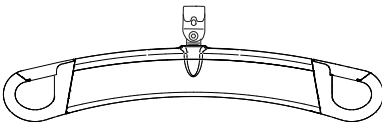
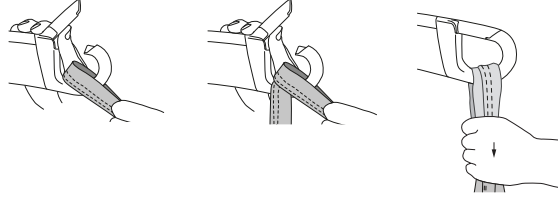
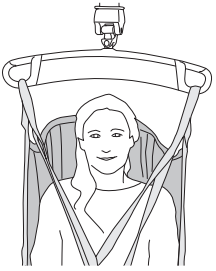
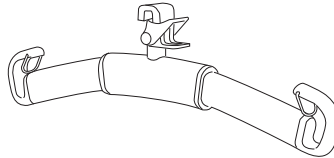
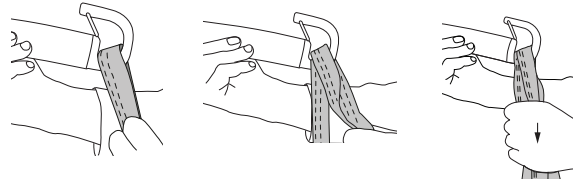
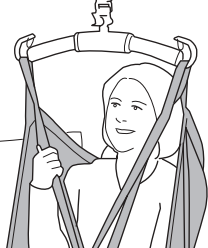
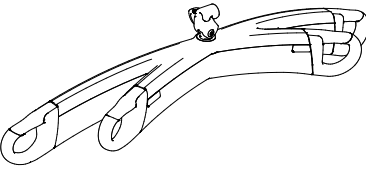
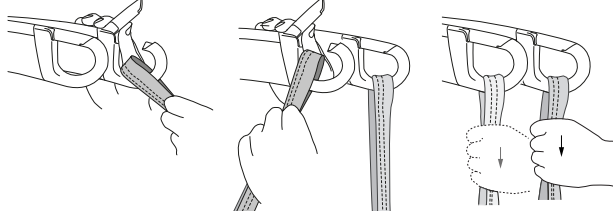
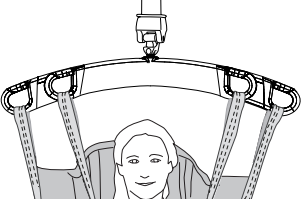
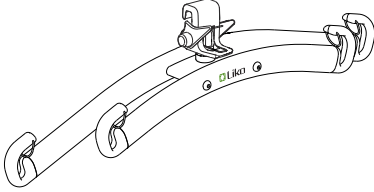
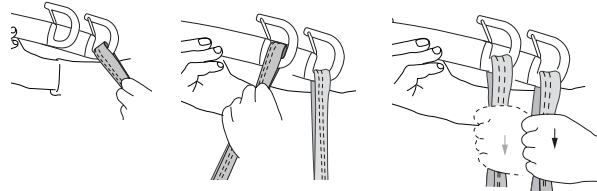
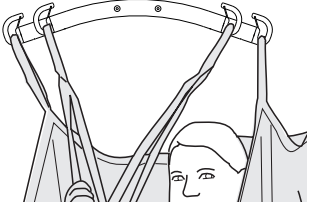
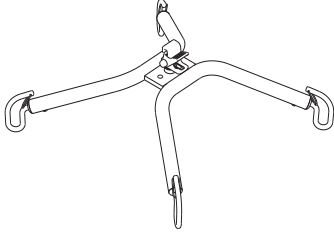
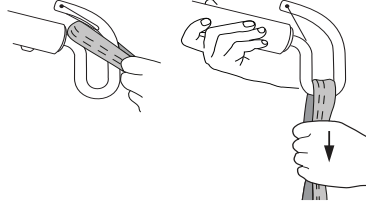
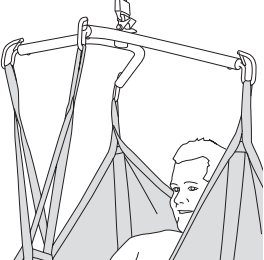
## Definitions



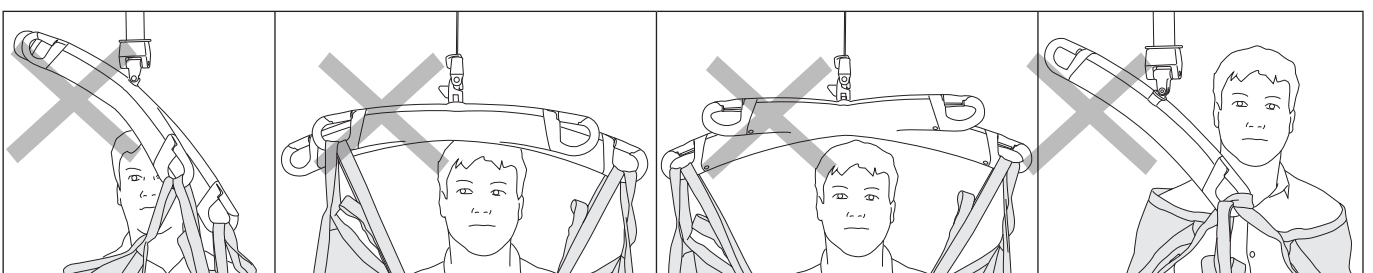
1. Front suspension strap
2. Loop strap (size S, M and L)
3. Front section
4. Rear section
5. Rear suspension strap
6. Loop strap (only for size XL)
7. Size marking
8. Serial number
9. Product label
10. Label: Periodic Inspection
11. Label: Individual marking (Belongs to)

NOTE! In size XL, the loop straps are placed on the rear section, not on the front section.

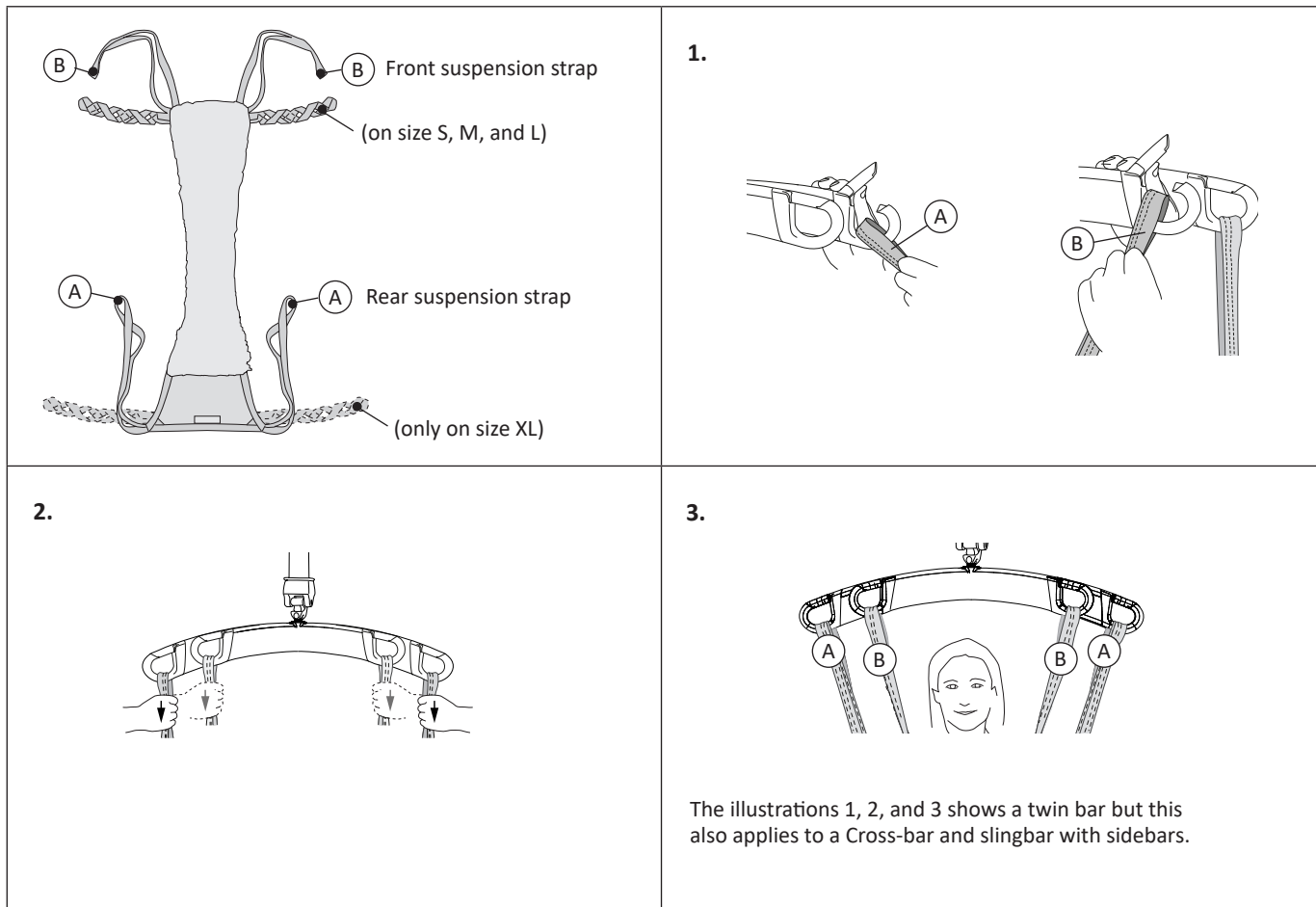
## How to Attach a Sling to Different Sling Bars

Sling bar	Sling loops to sling bar hooks	Correct
 <p style="text-align: center;">SlingGuard</p>		
 <p style="text-align: center;">Universal</p>		
 <p style="text-align: center;">SlingGuard Twin</p>		
 <p style="text-align: center;">Universal Twin</p>		
 <p style="text-align: center;">Cross-bar</p>		

### Wrong!



## How to Attach LiftPants Sling to a Sling Bar with 4 Hooks (Twin Bars and Cross Bars)



## How to Select Sling Size

**⚠ Do not choose too large size as this can mean that the required lift height cannot be achieved.**

**⚠ 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 chest circumference of the patient gives guidance when choosing the size of the sling. Compare the chest measurement of the patient (see instruction for measuring) and the measurement of the sling (see table or instruction for measuring).

Reference chest circumference on patient and product to below illustration and table.

Lift Pants sling should reach above waist level, but not so high that pressure is applied under the arms. Measure with a measuring tape from the back of the patient, under the side of the crotch and to chest level. A heavy person may require a larger size than a slender person, even though both are the same height. Guidelines to the patient's weight/height can be found on the last page.

### Measure the patient as follows:

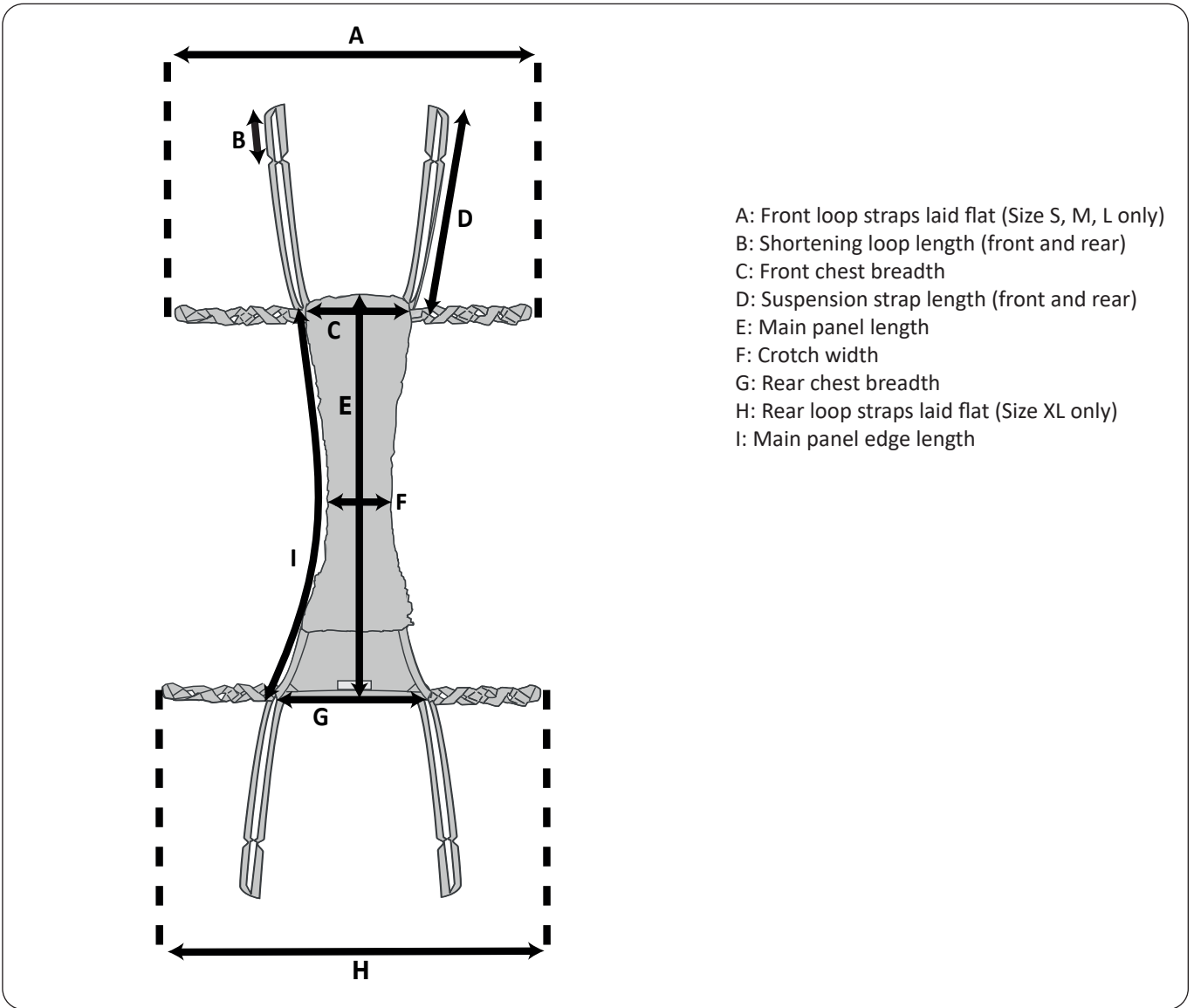
Measure from below the scapula, down the back via the side of the crotch and up to the chest.

Measurements, refer to Main panel edge length (I) in "Dimensions" on page 7:

Sling Size	Min to max chest circumference	Main panel edge length
<b>S</b>	52-94 (20-37)	85 (34)
<b>M</b>	58-116 (23-46)	108 (42)
<b>L</b>	90-142 (35-56)	120 (47)
<b>XL</b>	116-168 (46-66)	139 (55)

All measurements are in cm (in).

## Dimensions



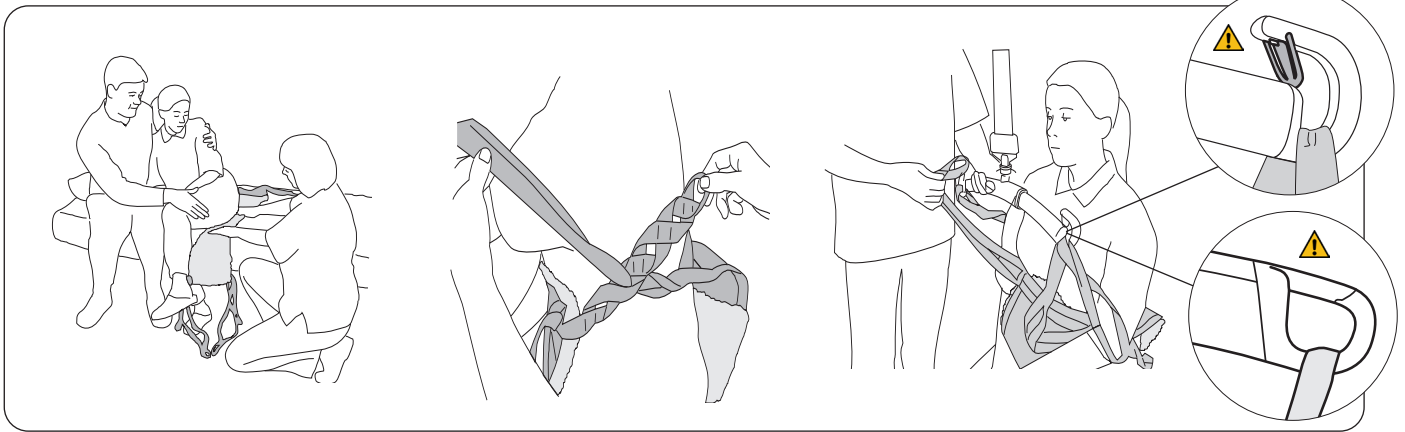
### Size Measurements in Centimeters

SIZE	A	B	C	D	E	F	G	H	I	Maximum Load (kg)	Prod. No.
S	70	10	17	56	81	10	30	N/A	85	200	3592324
M	78	10	20	56	102	10	36	N/A	108	200	3592325
L	108	10	25	56	112	10	41	N/A	120	200	3592326
XL	N/A	10	49	56	131	10	48	125	139	500	3592327

### Size Measurements in Inches

SIZE	A	B	C	D	E	F	G	H	I	Maximum Load (lbs)	Prod. No.
S	28	4	7	22	32	4	12	N/A	34	440	3592324
M	31	4	8	22	40	4	14	N/A	42	440	3592325
L	43	4	10	22	44	4	16	N/A	47	440	3592326
XL	N/A	4	19	22	52	4	19	49	55	1100	3592327

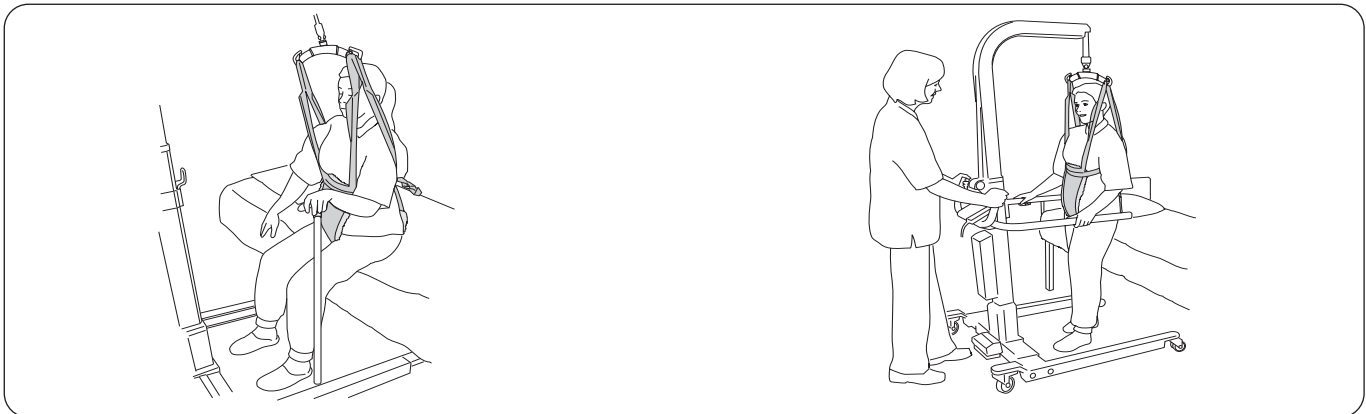
## Applying the LiftPants



The starting position for using LiftPants sling is the sitting position. The patient leans to one side to enable the caregiver to position LiftPants sling on the seat directly under the patient. Place LiftPants sling as far as possible under the patient, with the marking label facedown and towards the back of the seat.

Pull the front section of LiftPants sling up between the legs, so that the straps are accessible from the front. Pass the rear suspension straps (front suspension straps for the XL size) through the appropriate loops on the loop straps (see "Adjusting Loop Straps" on page 9).

Hook the rear and front suspension straps to the sling bar. The outermost loops are the most commonly used. See "How to Attach a Sling to Different Sling Bars" on page 5 and "How to Attach LiftPants Sling to a Sling Bar with 4 Hooks" on page 6 for instructions on how to attach the sling loops to different sling bars.



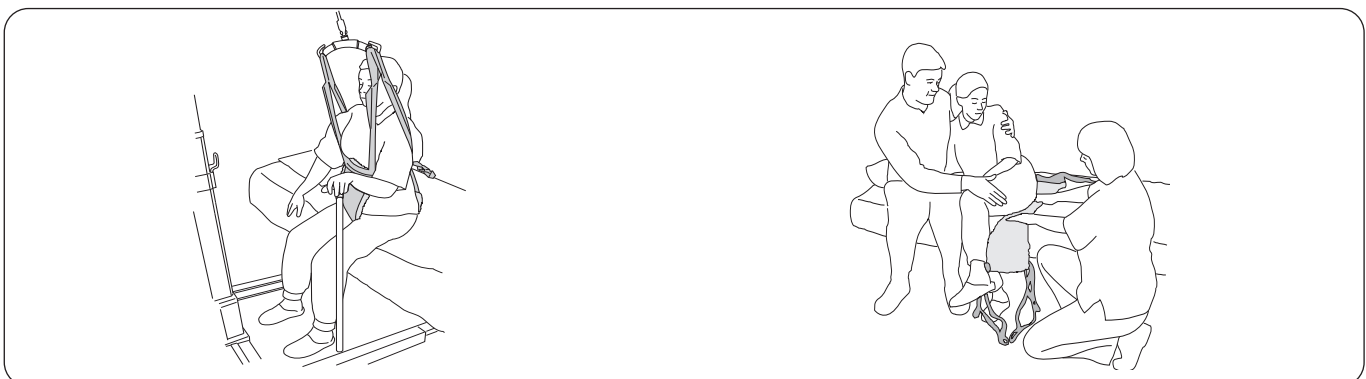
**Before the patient is raised from the sitting position:** Have the patient move as far forward on the seated surface and bring their feet as far back on the floor as needed to stand up comfortably. Raise the lift slightly, so that tension is applied to the straps without the patient's seat rising from the underlying surface, while ensuring that strap tension on the upper body is as comfortable as possible for the patient.

**During lifting:** Pull the lift forward in the direction of the raising motion to enable correct and optimal weight transfer until the patient is standing fully upright and is balanced. Lift only high enough to enable the patient to be raised and still maintain sufficient contact with the floor. When you use a mobile lift with the LiftPants, only use patient supports that are rated to support patient weight.

### Shortening position

In certain cases, it is advantageous to shorten the suspension straps for a taller patient to have enough room to stand. 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 suspension straps for long-term use, it is recommended that you tie a knot in the suspension strap to shorten it about 10 cm (4 inch). Use the loop at the end of the suspension strap to connect the suspension strap to the slingbar

## Removing the LiftPants



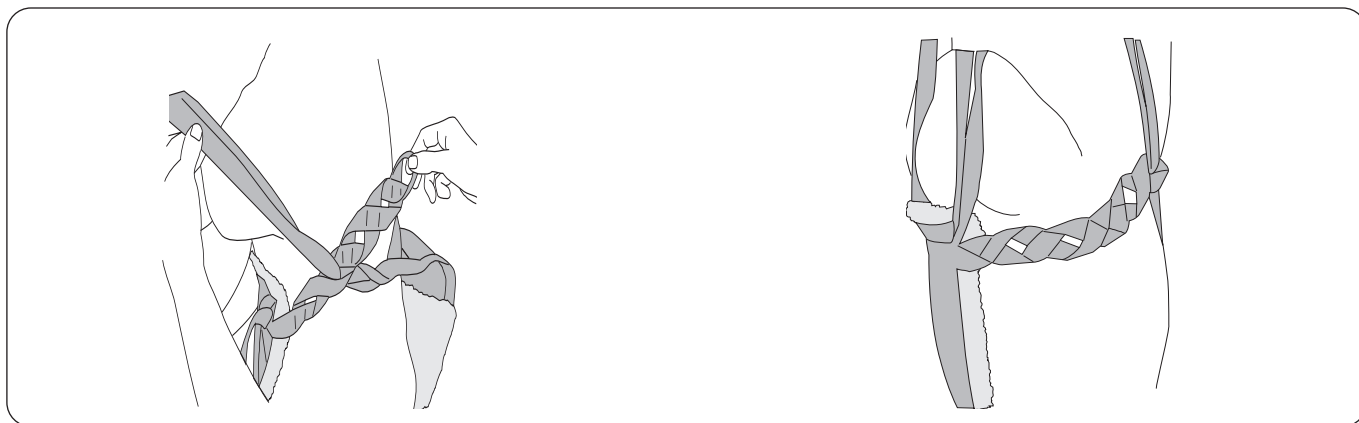
Lower the patient down into a sitting position. Unhook the suspension straps from the sling bar. Remove the rear suspension straps from the loop straps.

Let the patient lean to one side and carefully remove the LiftPants.



## Adjusting Loop Straps

The straps that support the upper body should neither be too loose nor too tight. Comfortable tension is the best.

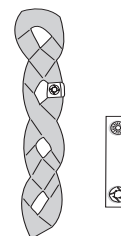


For a slender patient, suspension straps can be looped through an inner loop.

For a heavier patient, suspension straps can be looped through an outer loop.

### Loop clips

This practical component 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 put the suspension straps through.

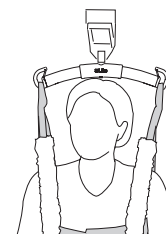


## Optional Components

### Padded cases for shoulder strap

Prod. No. 3666021

Pressure-relieving padded cases for mounting onto the forward and/or rear suspension straps. The padded cases come with Velcro along one longitudinal side for easy mounting.



### Extension Loop

The Extension Loops come in two different lengths, and in the colors green or grey. The length you choose depends on how great an adjustment you want to make.

Extension Loop, green, 12 cm (5 in)

Prod. No. 3691102

Extension Loop, green, 22 cm (9 in)

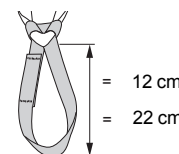
Prod. No. 3691103

Extension Loop, grey, 12 cm (5 in)

Prod. No. 3691302

Extension Loop, grey, 22 cm (9 in)

Prod. No. 3691303



### Loop Clips

Loop Clips, red, 4 pcs

Prod. No. 3666033

Loop Clips, orange, 4 pcs

Prod. No. 3666034

Loop Clips, yellow, 4 pcs

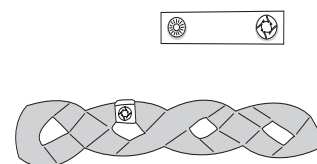
Prod. No. 3666035

Loop Clips, blue, 4 pcs

Prod. No. 3666036

Loop Clips, black, 4 pcs

Prod. No. 3666037



## Overview LIKO LiftPants sling. Mod. 92

Product	Prod. No.	Size	Patient weight <sup>1</sup>	Patient height <sup>1</sup>	Maximum load <sup>2</sup>	Material
LiftPants	3592324	S	20-50 kg (44-110 lbs)	120 - 160 cm (47-63 in)	200 kg (440 lbs)	Net Polyester
LiftPants	3592325	M	50-85 kg (110-187 lbs)	160 - 180 cm (63-71 in)	200 kg (440 lbs)	Net Polyester
LiftPants	3592326	L	70-120 kg (154-264 lbs)	170 - 200 cm (67-79 in)	200 kg (440 lbs)	Net Polyester
LiftPants	3592327	XL	100-500 kg (220-1100 lbs)	170 - 210 cm (67-83 in)	500 kg (1100 lbs)	Net Polyester

<sup>1</sup> The indicated patient weights/heights are guidelines only – there may be deviations.

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

### Recommended Combinations

Recommended combinations with LIKO LiftPants sling and Liko's sling bars:	Mini SlingBar 220	Universal SlingBar 350	Standard SlingBar 450	SlingGuard 450	Universal SlingBar 450	Universal SlingBar 600	Universal TwinBar 670	SlingGuard 670 Twin	Sling CrossBar 450	Sling Crossbar 670	Univ. Side bars + Universal 350	Univ. Side bars + Universal 450
	LiftPants, S	✓	✓	✓	✓	✓	✓			✓	✓	✓
LiftPants, M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LiftPants, L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
LiftPants, XL *	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓

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

\* XL size to be used in combination with the Ultra Lift system, refer to Ultra Lift System Instructions for Use.

**Explanation:** ✓ = Recommended

### 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:

