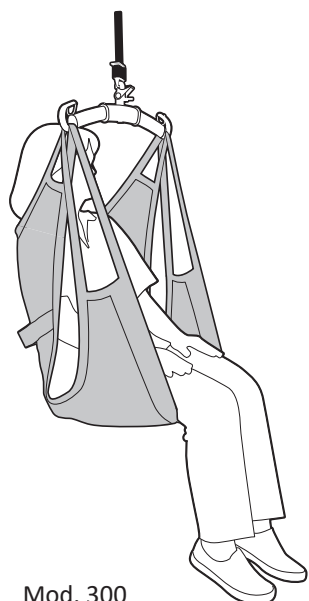


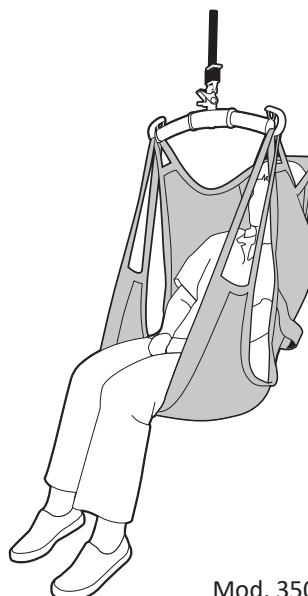
Liko ComfortSling Plus Mod. 300, 350



Instructions For Use



Mod. 300



Mod. 350

Product Description

Intended Use:

Liko ComfortSling Plus provides a comfortable sitting position and safe patient transfer between, e.g. the bed and wheelchair. ComfortSling Plus will be suitable for patients who are especially sensitive due to muscle or joint pain. ComfortSling Plus will also often be suitable even for amputees because it will provide support under the entire sitting surface.

It is intended for use in following environments: Health care, Intensive care, Emergency ward, Rehabilitation, Habilitation and Home healthcare environment

It adapts to suit the patient and no individual adjustments are required. A properly fitted and carefully applied ComfortSling Plus provides the patient with a good sense of security and a high degree of comfort, along with good back and head support (Mod. 350).

ComfortSling Plus is gentle to apply since the patient is in a supine position during the application and the sling remains in the chair after the transfer. When the patient later is ready to be moved back to bed, the sling is already in place. The

strap loops can then easily be connected to the sling bar and the patient can be lifted.

ComfortSling Plus is suitable for patients who are especially sensitive due to muscle or joint pain.

ComfortSling Plus is often suitable even for amputees because it provides support under the entire sitting surface. ComfortSling Plus High (Mod. 350) are equipped with built-in head support and provide a comfortable reclined sitting position. It is highly suitable for patients who have poor torso and head stability.

Material

ComfortSling Plus is made of net polyester.

Suitable Lifts

The ComfortSling can be used with all **Liko** overhead and mobile lifts. You can choose between the **LikoGuard** overhead lift, **Likorall** overhead lift, and **Multirall** overhead lift, or the **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 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 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.
- 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 **Liko** slingbars 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.
- When the sling is not being used, do not place in direct sun light.

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

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

⚠ 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.

CE Medical Device Class I Product

PATENT 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 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		Caution! consult instructions for use.
	CE-mark. European Union medical device conformity mark, Class I Medical Device.		
	Swiss authorised representative		
	Legal manufacturer		Date of manufacture
	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 Maintenance

Inspect the sling before each use. Inspect 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:

ComfortSling is made of net polyester.

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 Hillrom representative. Hillrom recommends the product to be used only during its expected life time.

Expected Life Time

The product has an expected life time of 3 years during normal use. Life time varies depending on material, use frequency, washing procedure, and weight carried. Hillrom recommends that the product only be used during its expected life time.

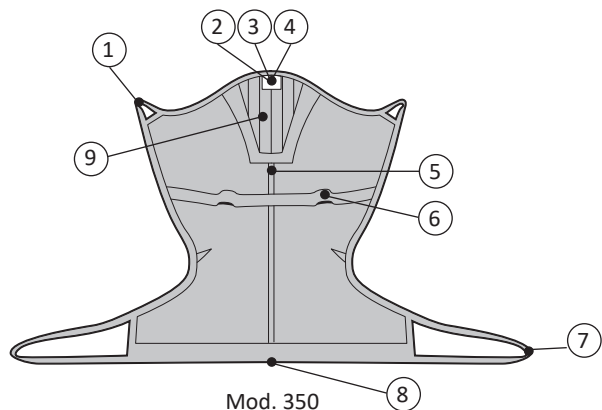
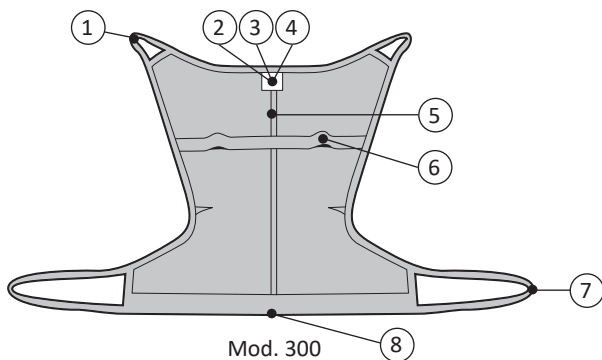
Recycling Instructions



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.

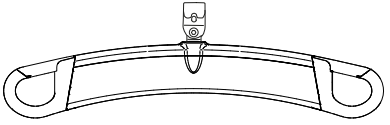
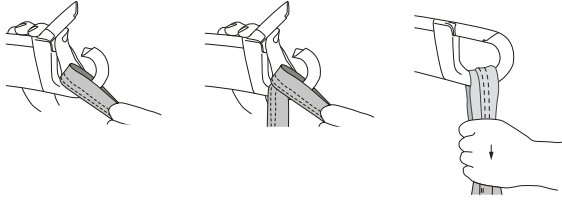
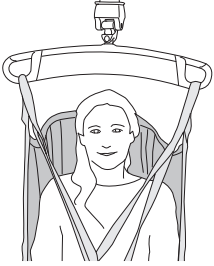
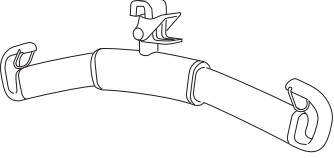
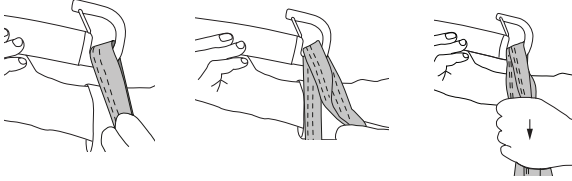

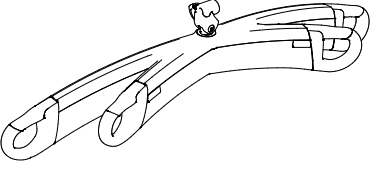
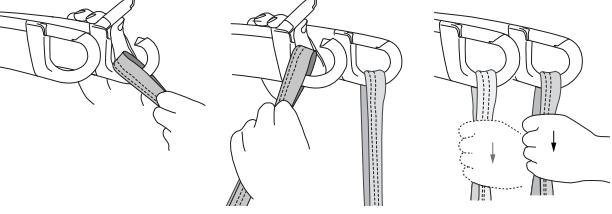
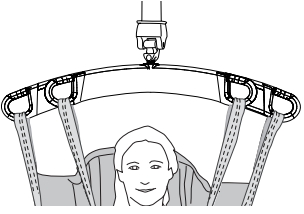
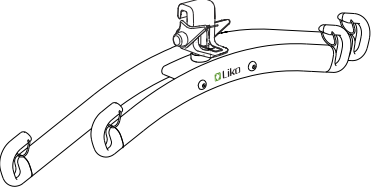
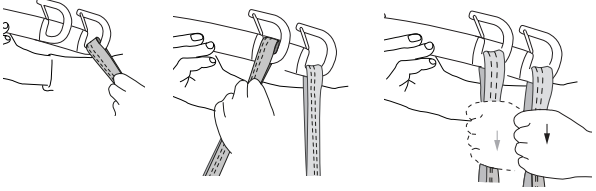
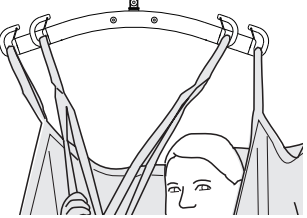
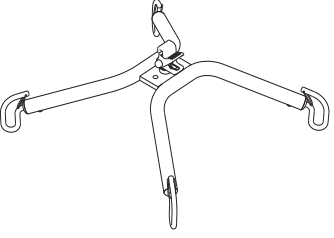
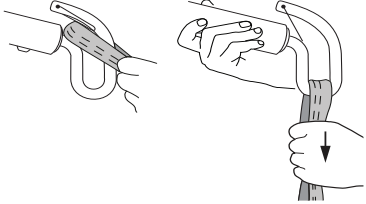
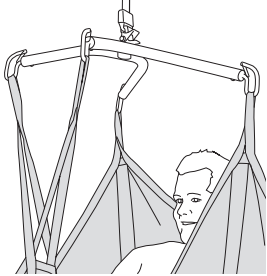
If in doubt, the user of the device shall first contact Hillrom Technical Support for guidance on safe disposal protocols.

Definitions

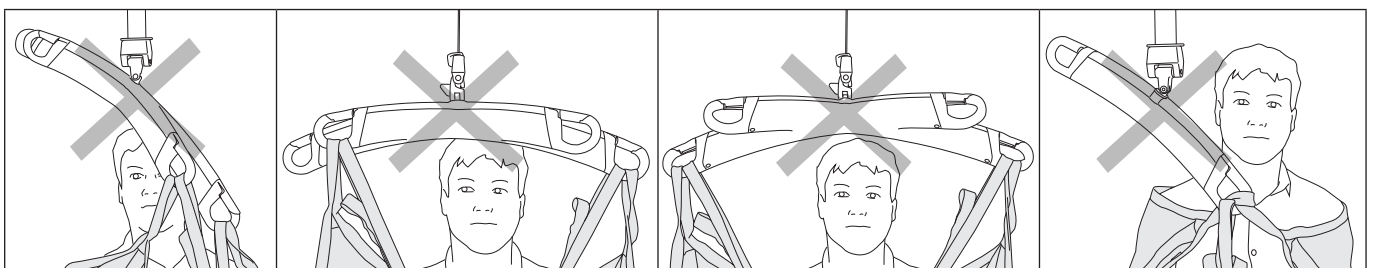


1. Upper strap loop
2. Product label, including:
Manufacturing year and month ()
Serial number ()
3. Label: Periodic Inspection
4. Label: Individual marking (Belongs to)
5. Center back strap with size marking:
(S = Orange, M = Yellow, L = Blue, XL = Black)
6. Handle
7. Lower strap loop
8. Lower edge
9. Soft head support (Mod. 350)

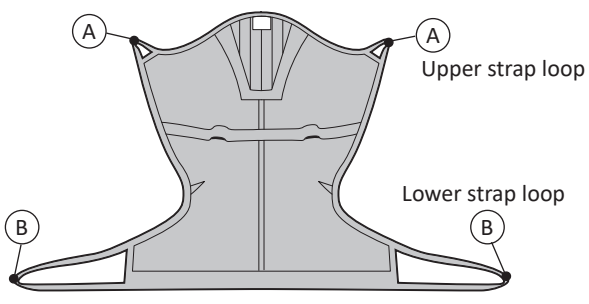
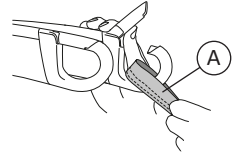
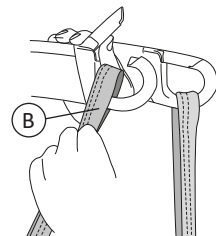
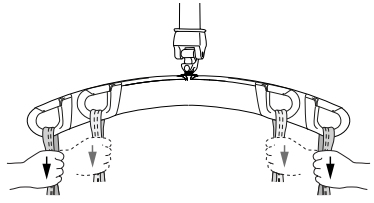
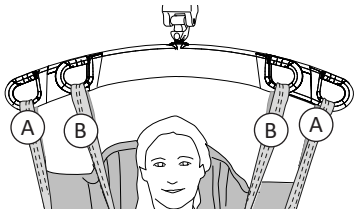
How to Attach a Sling to Different Sling Bars

Sling bar	Sling loops to sling bar hooks	Correct
 <p data-bbox="277 501 424 533">SlingGuard</p>		
 <p data-bbox="288 795 411 826">Universal</p>		
 <p data-bbox="244 1077 459 1108">SlingGuard Twin</p>		
 <p data-bbox="252 1375 448 1406">Universal Twin</p>		
 <p data-bbox="288 1675 411 1706">Cross-bar</p>		

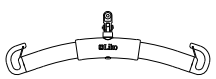
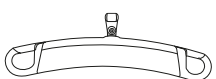
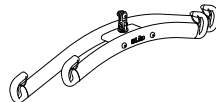
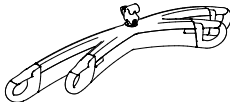
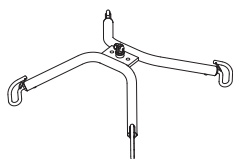
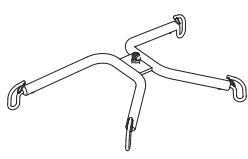
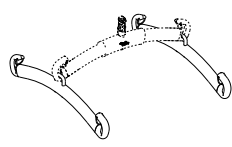
Wrong!



How to Attach a ComfortSling Plus to a Sling Bar with 4 Hooks (Twin Bars and Cross Bars)

 <p>A</p> <p>Upper strap loop</p> <p>B</p> <p>Lower strap loop</p>	<p>1.</p>  
<p>2.</p> 	<p>3.</p>  <p>Illustrations 1, 2, and 3 show a twin bar but this also applies to a Cross-bar and slingbars with Side Bars.</p>

Different Sling Bars

			
<p>Universal SlingBar 450* Prod. No. 3156075</p>	<p>SlingGuard 450* Prod. No. 3308020</p>	<p>Universal TwinBar 670* Prod. No. 3156077</p>	<p>SlingGuard 670 Twin* Prod. No. 3308040</p>
 <p>Sling Cross-bar 450* Prod. No. 3156021</p>	 <p>Sling Cross-bar 670* Prod. No. 3156018</p>	 <p>Universal SideBars 450 Prod. No. 3156079</p>	<p>* The sling bars come in different designs, see Product List.</p>

How to Select Sling Size

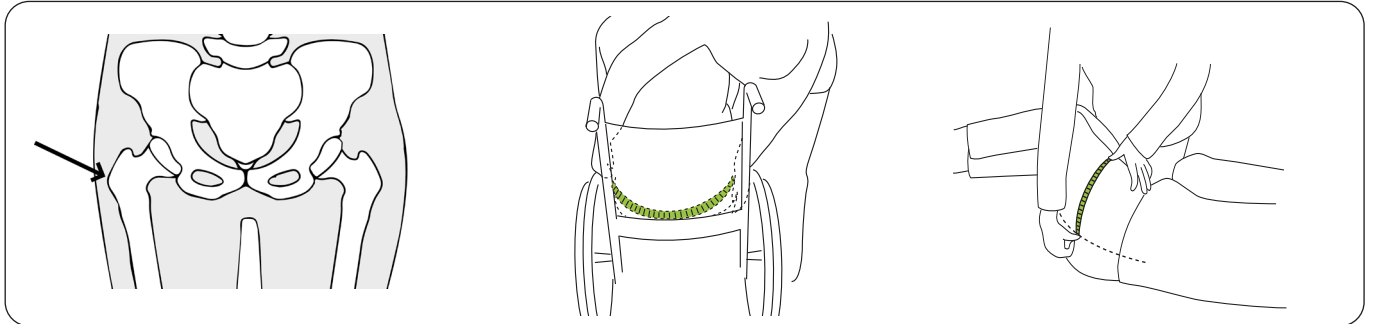
⚠️ Only use a sling that is the correct size for the patient. Correct size must be assessed by a trained caregiver. Patient entrapment or asphyxiation could occur.

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:

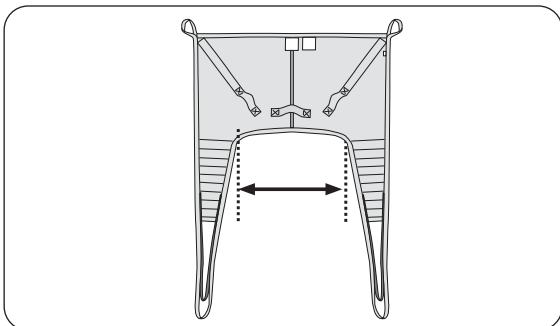


Trochanter: The trochanter is the part of the femur that can be felt at the patient's hip. Apply gentle pressure to find the trochanter for measurement.

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:



Measure the distance between the leg supports on the sling.

Hip width measurement ComfortSling Plus Mod 300

Sling Size	Hip Width
S	46 (18)
M	56 (22)
L	77 (30)
XL	81 (32)

All measurements are in cm (in.).

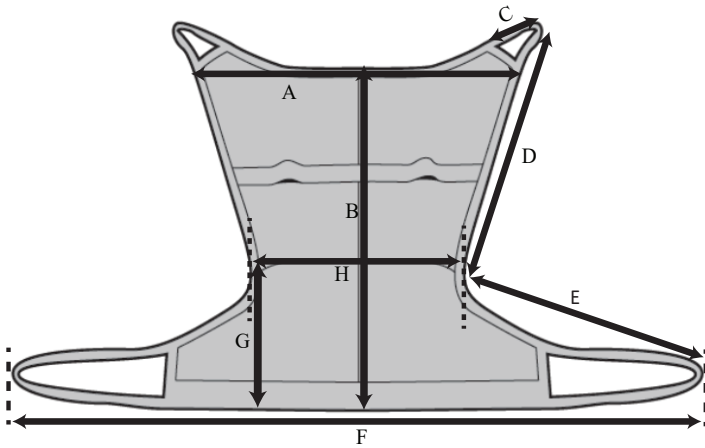
Hip width measurement ComfortSling Plus Mod 350

Sling Size	Hip Width
S	45 (18)
M	54 (21)
L	66 (26)
XL	67 (26)

All measurements are in cm (in.).

Dimensions

ComfortSling Plus Mod 300



- A: Shoulder breadth
- B: Center back support
- C: Shoulder loop length
- D: Back support side opening
- E: Front support side opening
- F: Under leg and thigh support
- G: Hip to knee length
- H: Hip width of sling

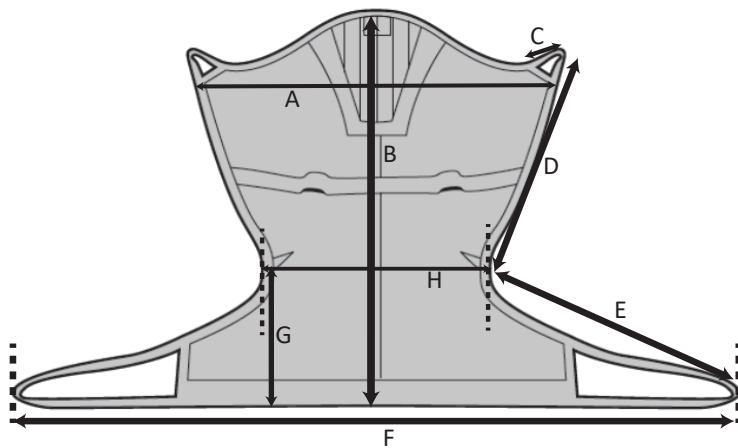
Size Measurements in Centimeters

SIZE	A	B	C	D	E	F	G	H	Maximum load (kg)	Prod. No.
S	87	85	15	79	75	171	34	47	200	35300304
M	100	100	15	81	78	179	37	56	200	35300305
L	107	121	15	83	66	182	38	78	200	35300306
XL	106	128	15	89	77	205	38	80	300	35300307

Size Measurements in Inches

SIZE	A	B	C	D	E	F	G	H	Maximum load (lbs)	Prod. No.
S	34	34	6	31	30	67	13	19	440	35300304
M	39	40	6	32	31	71	15	22	440	35300305
L	42	48	6	33	26	72	15	31	440	35300306
XL	42	51	6	35	30	81	15	32	660	35300307

ComfortSling Plus Mod 350



- A: Shoulder breadth
- B: Center back head and neck support
- C: Shoulder loop length
- D: Back support side opening
- E: Front support side opening
- F: Under leg and thigh support
- G: Hip to knee length
- H: Hip width of sling

Size Measurements in Centimeters

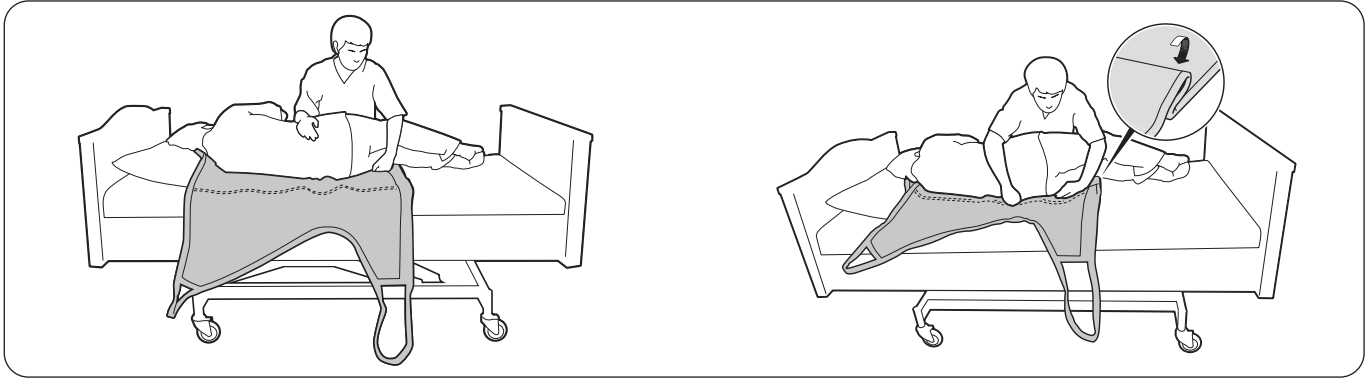
SIZE	A	B	C	D	E	F	G	H	Maximum load (kg)	Prod. No.
S	92	120	11	65	70	155	34	47	200	35350304
M	113	136	11	77	81	184	38	56	200	35350305
L	121	145	11	83	81	193	41	67	200	35350306
XL	127	153	11	91	90	212	40	67	300	35350307

Size Measurements in Inches

SIZE	A	B	C	D	E	F	G	H	Maximum load (lbs)	Prod. No.
S	36	47	4	26	28	61	13	19	440	35350304
M	45	54	4	30	32	72	15	22	440	35350305
L	48	57	4	33	32	76	16	27	440	35350306
XL	50	61	4	36	35	84	16	27	660	35350307

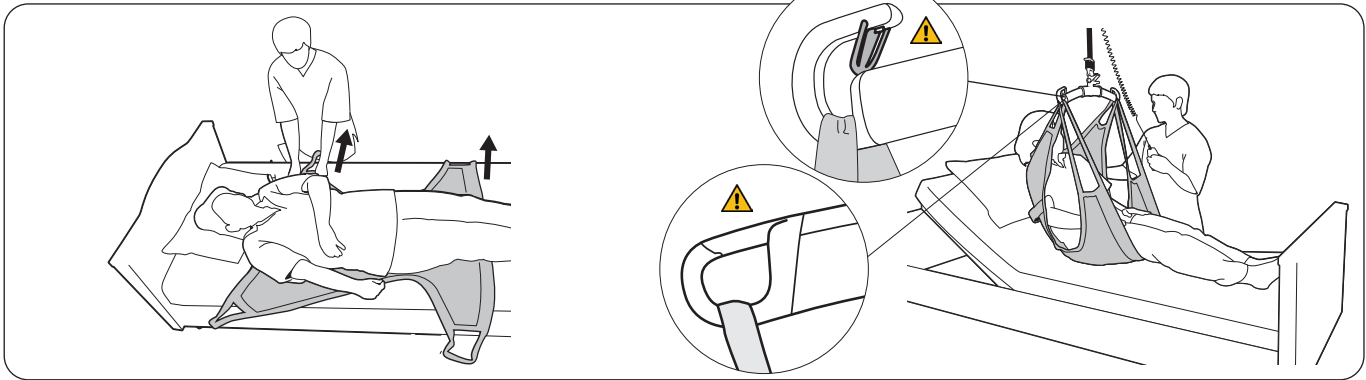
Lifting from a Supine Position

Think about your own work posture as well as the comfort of the patient. Use the bed's raising and lowering functions.



Turn the patient toward you to prevent the patient from falling out of the bed. Place the edge of the sling as far in under the patient as possible, and with its lower edge just below the bend in the patient's knees.

Fold the sling so that its center back strap follows the patient's backbone when the patient is carefully rotated back.



Carefully pull the sling out on the other side. Make sure the patient is positioned in the middle of the sling. Adjust the position as needed. The lower edge of the sling should be just below the bend in the patient's knees.

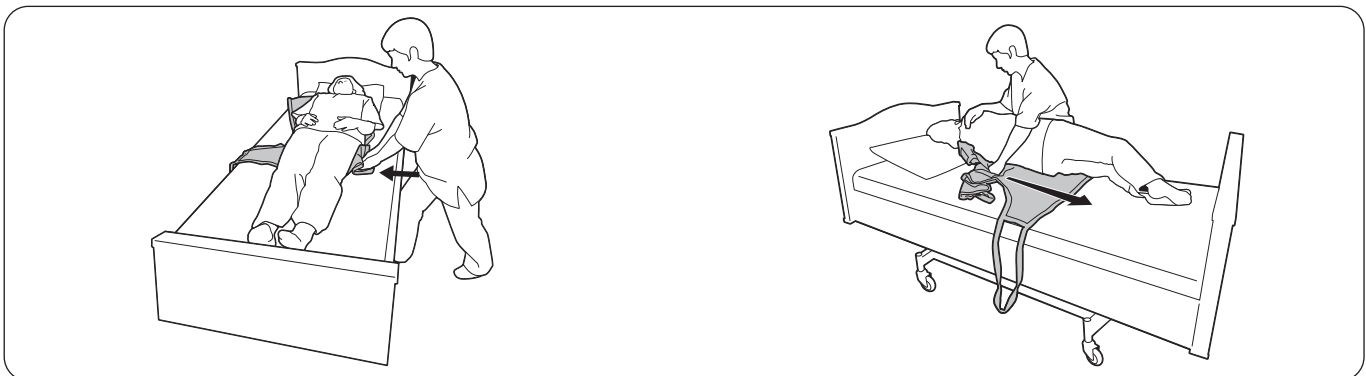
Raise the back support. First connect the upper strap loops to the sling bar, then the lower strap loops. See page 5 and page 6 for instructions on how to attach the sling loops to different sling bars. Lift the patient. Once the patient is lifted, the sling's lower edge will be approximately 0-10 cm (0-3.9 inch.) above the bend in the knees.

An alternate method for applying the sling: For patients who cannot be turned on their sides, sliding sheets can be used to apply the sling in the supine position. Place two sliding sheets under the patient, and apply the sling by pulling it between the sliding sheets. Contact your local Hillrom representative for more information.

Returning to the Supine Position

Think about your own work posture as well as the comfort of the patient. Use the bed's raising and lowering functions. Lower the patient onto the bed and disconnect the sling's strap loops from the sling bar.

Removing the Sling



Fold the sling in under itself and press it in as far under the patient as possible.

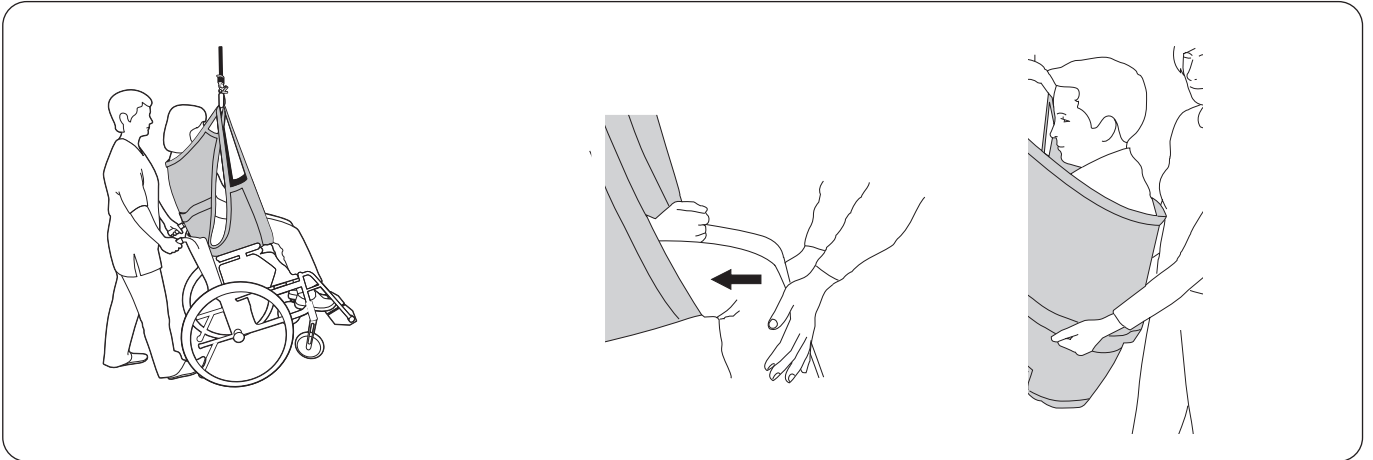
Carefully turn the patient towards you. **Hint:** Use the sling in order to facilitate the turn. Carefully pull away the sling.

Lifting from the Floor

When lifting from the floor, we recommend **Liko ComfortSling Plus High Mod. 350**, which provides good head support.

Lifting to a Sitting Position

When placing a patient in a wheelchair or chair, or on a toilet, it is important that the patient gets far enough back to sit comfortably and securely. This can be accomplished in several ways.



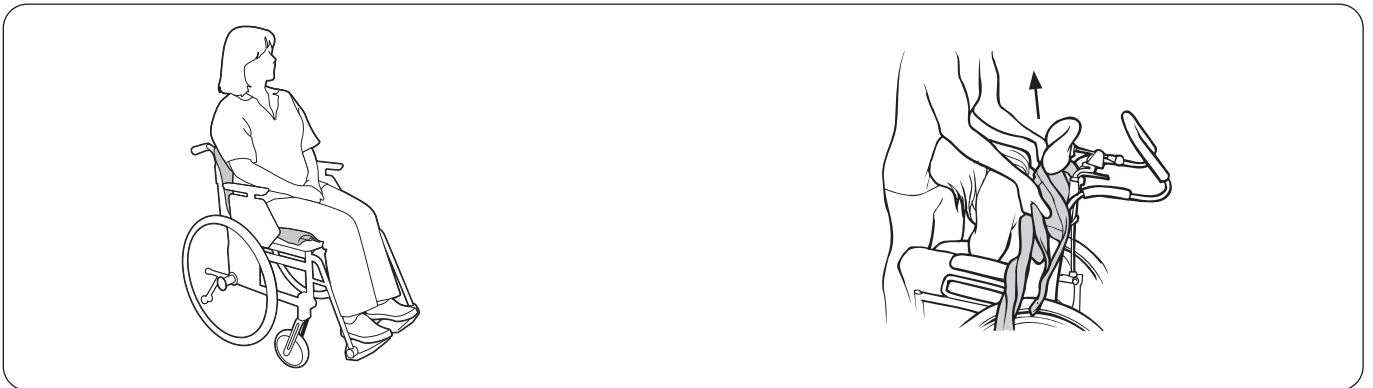
When placing a patient in a wheelchair: Lean the chair backwards during the lowering of the patient. Let the buttocks slide down the backrest during the last part. Control the angle of the wheelchair with your foot on the tipping support.

When placing a patient in a chair or on a toilet (Alternative method for wheelchair): Apply gentle pressure to the patient's lower legs during the lowering sequence, so that the buttocks are guided towards the backrest of the chair or the correct position on the toilet. If the sling has handles, these can be used to guide.

⚠ Do not use the handles to lift! Excessive force on the handles can cause the sling to tear.

Removing the Sling in a Chair/Wheelchair/Toilet

It is recommended to remove the sling after the transfer. Do not leave the sling on when you transfer a patient to a toilet.



After a completed lift to a chair or wheelchair, disconnect the strap loops from the sling bar and fold the sling out of the way.

Remove the sling by carefully pulling it up.

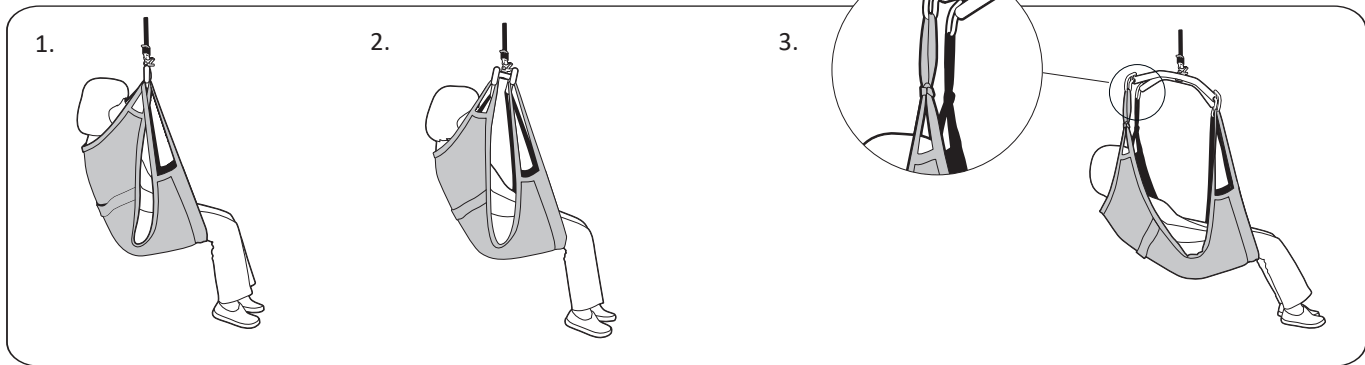
Lifting from a Wheelchair

⚠ Make sure that the sling is placed correctly before transferring the patient from the wheelchair.

Sometimes, the patient may have shifted forward in the wheelchair, and on the sling as well. The sling should cover at least half of the bottom of the thigh to ensure a safe lift. If this is not the case, the patient should be positioned manually to an appropriate position.

Different Sitting Positions Depending on Choice of Sling Bar

Liko ComfortSling Plus, Mod. 300



1. **Liko ComfortSling Plus, Mod. 300** in combination with **Liko Universal SlingBar 450** provides an upright sitting position.

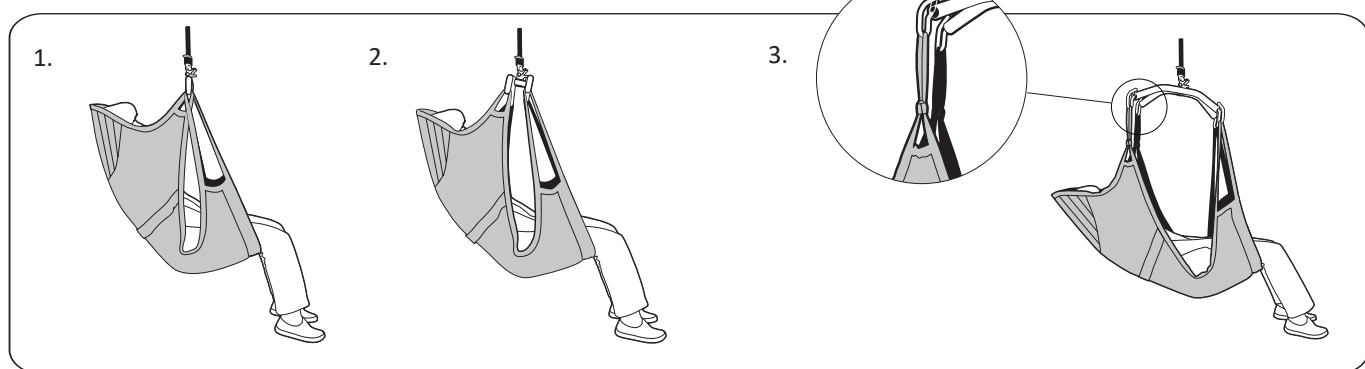
2. **Liko ComfortSling Plus, Mod. 300**, in combination with a twin bar 670, provides a somewhat reclined sitting position as well as additional room for the shoulders.

3. **Liko ComfortSling Plus, Mod. 300** in combination with **Liko Sling Cross-bar 450** or 670 provides a reclining sitting position with less bend in the hip joint. Cross-bar 670 also provides additional room for the shoulders.

Liko Universal SlingBar 450 in combination with SideBars provides the same kind of reclined sitting position.

⚠ For the combinations listed under point 3, 12 cm Extension Loops must **always** be used on the upper strap loops. When lifting, make sure that the lower edge of the sling is at the level of the bend in the knees. This also applies in combination with the older **Liko Sling Cross-bar**.

Liko ComfortSling Plus High, Mod. 350



1. **Liko ComfortSling Plus, Mod. 350** in combination with **Liko Universal SlingBar 450** provides a comfortable, reclined sitting position.

2. **Liko ComfortSling Plus, Mod. 350** in combination with a twin bar 670, provides a reclined sitting position as well as less bend in the hips and more room for the shoulders.

3. **Liko ComfortSling Plus, Mod. 350** in combination with **Liko Sling Cross-bar 450** or 670, provides a reclined sitting position. Cross-bar 670 also provides additional room for the shoulders.

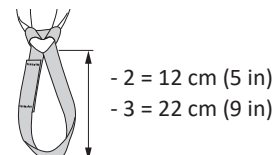
Liko Universal Slingbar 450 in combination with SideBars provides the same kind of reclined sitting position.

⚠ For the combinations listed under point 3, 12 cm Extension Loops must **always** be used on the upper strap loops. When lifting, make sure that the lower edge of the sling is at the level of the bend in the knees. This also applies in combination with the older **Liko Sling Cross-bar**.

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



Overview LIKO ComfortSling Plus Mod. 300, 350

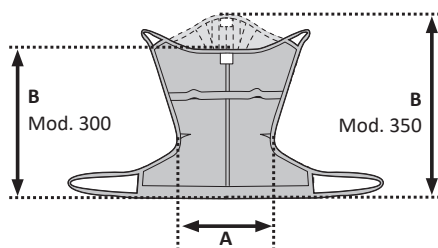
Product	Prod. No.	Size	Maximum load ¹
Liko ComfortSling Plus, Mod. 300	35300304	S Small	200 kg (440 lbs)
Liko ComfortSling Plus, Mod. 300	35300305	M Medium	200 kg (440 lbs)
Liko ComfortSling Plus, Mod. 300	35300306	L Large	200 kg (440 lbs)
Liko ComfortSling Plus, Mod. 300	35300307	XL Extra large	300 kg (660 lbs.)
Liko ComfortSling Plus High, Mod. 350	35350304	S Small	200 kg (440 lbs)
Liko ComfortSling Plus High, Mod. 350	35350305	M Medium	200 kg (440 lbs)
Liko ComfortSling Plus High, Mod. 350	35350306	L Large	200 kg (440 lbs)
Liko ComfortSling Plus High, Mod. 350	35350307	XL Extra large	300 kg (660 lbs.)

¹For retained maximum load, lift/accessories intended for the same load or more are required.

Model	Size	Patient's weight ²	Width (A)	Height (B)
300	S Small	25-50 kg (55-110 lbs)	47 cm (18.5 in.)	85 cm (33.5 in.)
300	M Medium	40-80 kg (88-176 lbs)	56 cm (22 in.)	100 cm (39.5 in.)
300	L Large	70-110 kg (154-243 lbs)	78 cm (31 in.)	121 cm (48 in.)
300	XL Extra large	> 100 kg (> 220 lbs)	80 cm (31.5 in.)	128 cm (50.5 in.)
350	S Small	25-50 kg (55-110 lbs)	47 cm (18.5 in.)	120 cm (47 in.)
350	M Medium	40-80 kg (88-176 lbs)	56 cm (22 in.)	136 cm (53.5 in.)
350	L Large	70-110 kg (154-243 lbs)	67 cm (26.5 in.)	145 cm (57 in.)
350	XL Extra large	> 100 kg (> 220 lbs)	67 cm (26.5 in.)	153 cm (60.5 in.)

²The indicated patient weight is only a guideline – there may be deviations.

If the patient has poor muscle tone and sinks too low in the ComfortSling, you should consider a smaller size.



Recommended Combinations

Recommended combinations of ComfortSling Plus with LIKO sling bars:	Mini 220	Universal SlingBar 350	Universal SlingBar 450	SlingBar Standard 450	SlingGuard 450	Universal SlingBar 600	SlingGuard 670 Twin	Universal TwinBar 670	Sling Cross-bar 450	Sling Cross-bar 670	Univ. SideBars + Universal 350	Univ. SideBars + Universal 450
ComfortSling Plus, S	✓	✓	✓	✓	✓				✓ ¹		✓ ¹	✓ ¹
ComfortSling Plus, M	✓	✓	✓	✓	✓	✓	✓	✓	✓ ¹	✓ ¹	✓ ¹	✓ ¹
ComfortSling Plus, L	✓	✓	✓	✓	✓	✓	✓	✓	✓ ¹	✓ ¹	✓ ¹	✓ ¹
ComfortSling Plus, XL	✓	✓	✓	✓	✓	✓	✓	✓	✓ ¹	✓ ¹	✓ ¹	✓ ¹

¹ ⚠ Always use the Extension Loops 12 cm on the upper strap loops.
When sitting, the lower edge of the sling should be near the bend in the knees.

Explanation: ✓ = Recommended

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. For combinations with other **Liko** sling bars, please contact Hillrom.

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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