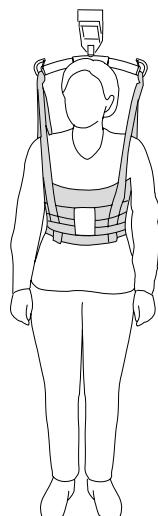


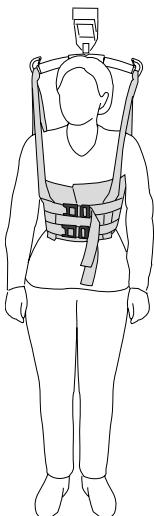
Liko™ MasterVest™, Mod. 60, 64 TeddyVest, Mod. 60, 64



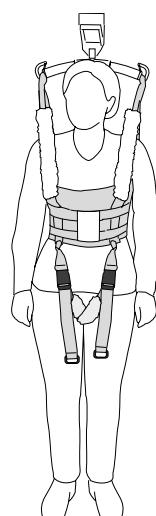
Instruction Guide



Mod. 60



Mod. 64



Mod. 60
with leg harness
and padded cases

Product Description

This instruction guide is valid for Liko MasterVest and "TeddyVest", but in the following text we will only use the name Liko MasterVest.

Liko MasterVest is a versatile sling with a wide range of uses, for example, help with standing and walking or visiting the toilet.

MasterVest supports the patient around the upper body as well as under the arms. MasterVest requires patients to be able to partially weight bear.

Liko MasterVest enables you to reach certain difficult-to-achieve goals, for example:

- patients receive appropriate help to exercise and bear weight on their legs, and
- caregivers avoid risks associated with heavy lifting.

Lifting and transferring patients to and from the toilet can lead to severe injuries for the caregiver. MasterVest facilitates smooth and simple transfers to and from the toilet.

Since MasterVest covers only the upper body, the lower body is easily accessible for dressing and undressing.

Liko MasterVest in sizes XXS and XS are made of a Teddy bear patterned polyester fabric and this is why these slings are called "TeddyVest".

Front closure MasterVest, Mod. 64

The front closure model of Liko MasterVest Mod. 64 can be used for patients who are able to put on and take off the vest by themselves.

The front closure MasterVest is equipped with two adjustable safety clasps across the chest. These are also recommended in cases where it is necessary to adjust the tension and regulate pressure on the chest.

Front closure MasterVest in size XS is made of a Teddy bear patterned polyester fabric and this is why this sling is called "TeddyVest", front closure.

MasterVest with Leg Harness

The leg harness holds MasterVest in place and is commonly used in walking training.

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

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

Before using lifts and lifting accessories, read the instructions for both the sling and the lift that will be used.

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.
- Test the emergency lowering device on the lift you are using to make certain that it functions properly.
- Adjust the maximum height so that it will be impossible to raise a patient too high.
- For safety and hygiene reasons, use individual slings.
- Before lifting, plan the lifting operation so that it can be done as safely and smoothly as possible.
- Before lifting, 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.
- 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.

CE Medical Device Class I Product

Liko MasterVest 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.

Care and Maintenance

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

- Fabric
- Straps
- Seams
- Suspension loops
- Buckles

 Do not use damaged lifting accessories.

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

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.

Washing Instructions: Please see the sling's product label and the attached appendix "Care and Maintenance of Liko Slings". The safety buckles on Mod. 64 shall be closed during washing.

Expected Life Time

Mod. 60: The product has an expected life time of 1-5 years during normal use.

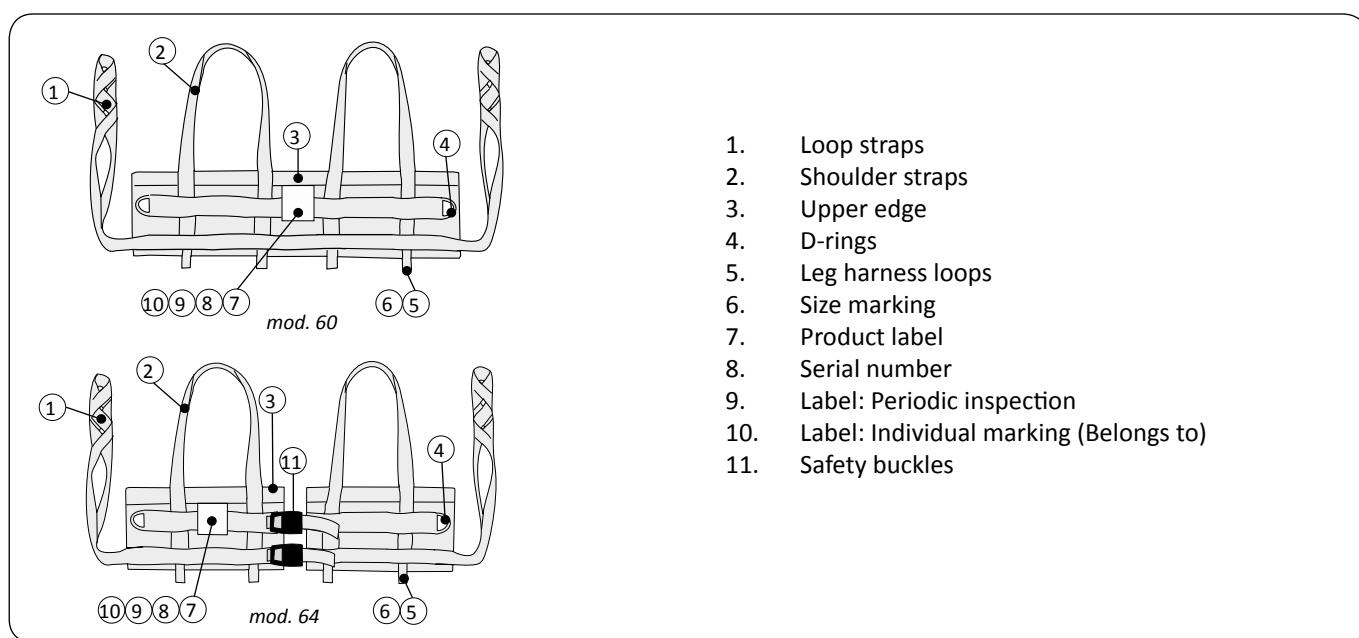
Mod. 64: The product has an expected life time of 1-4 years during normal use

Life time varies depending on the fabric, use frequency, washing procedure, and weight carried.

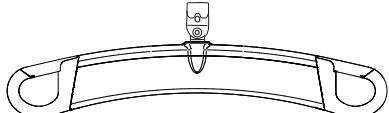
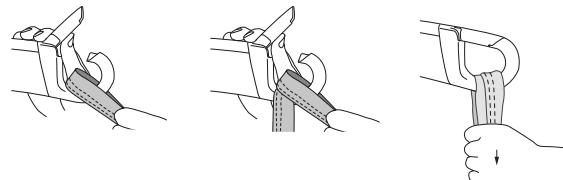
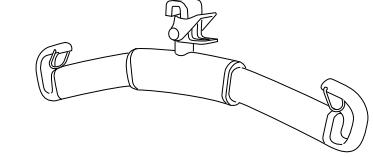
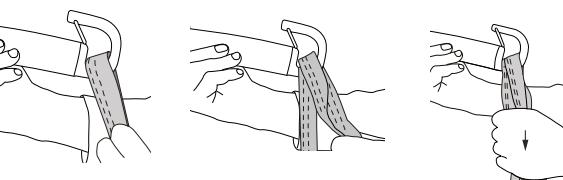
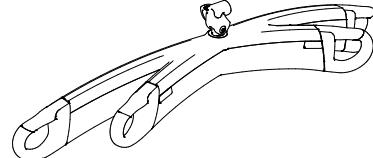
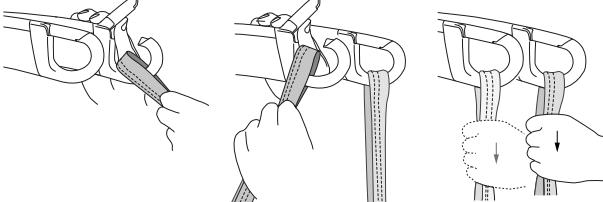
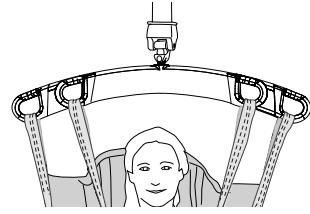
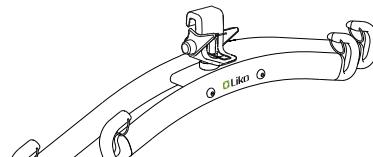
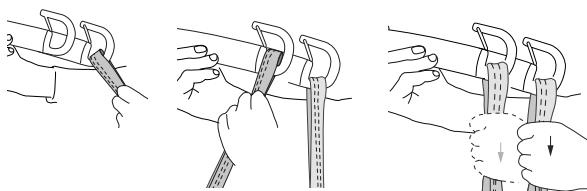
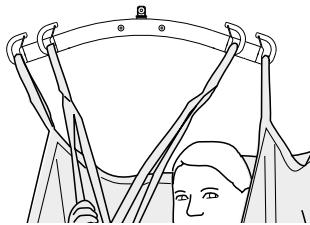
Periodic Inspection

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. See Liko's protocol "Periodic Inspection Liko Textile Products".

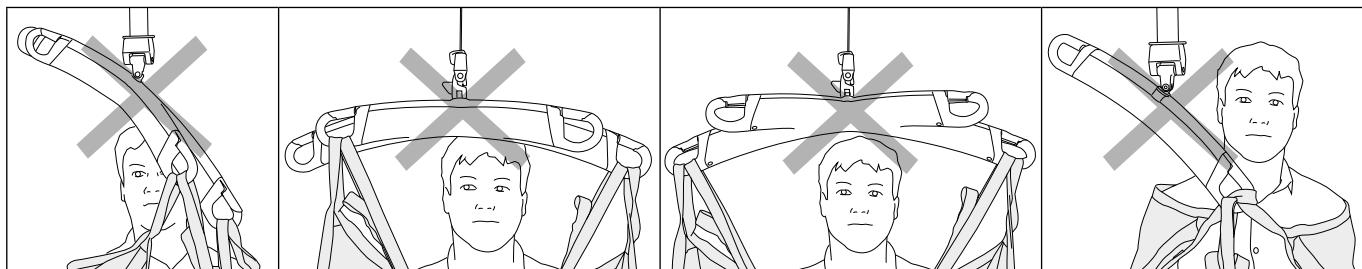
Definitions



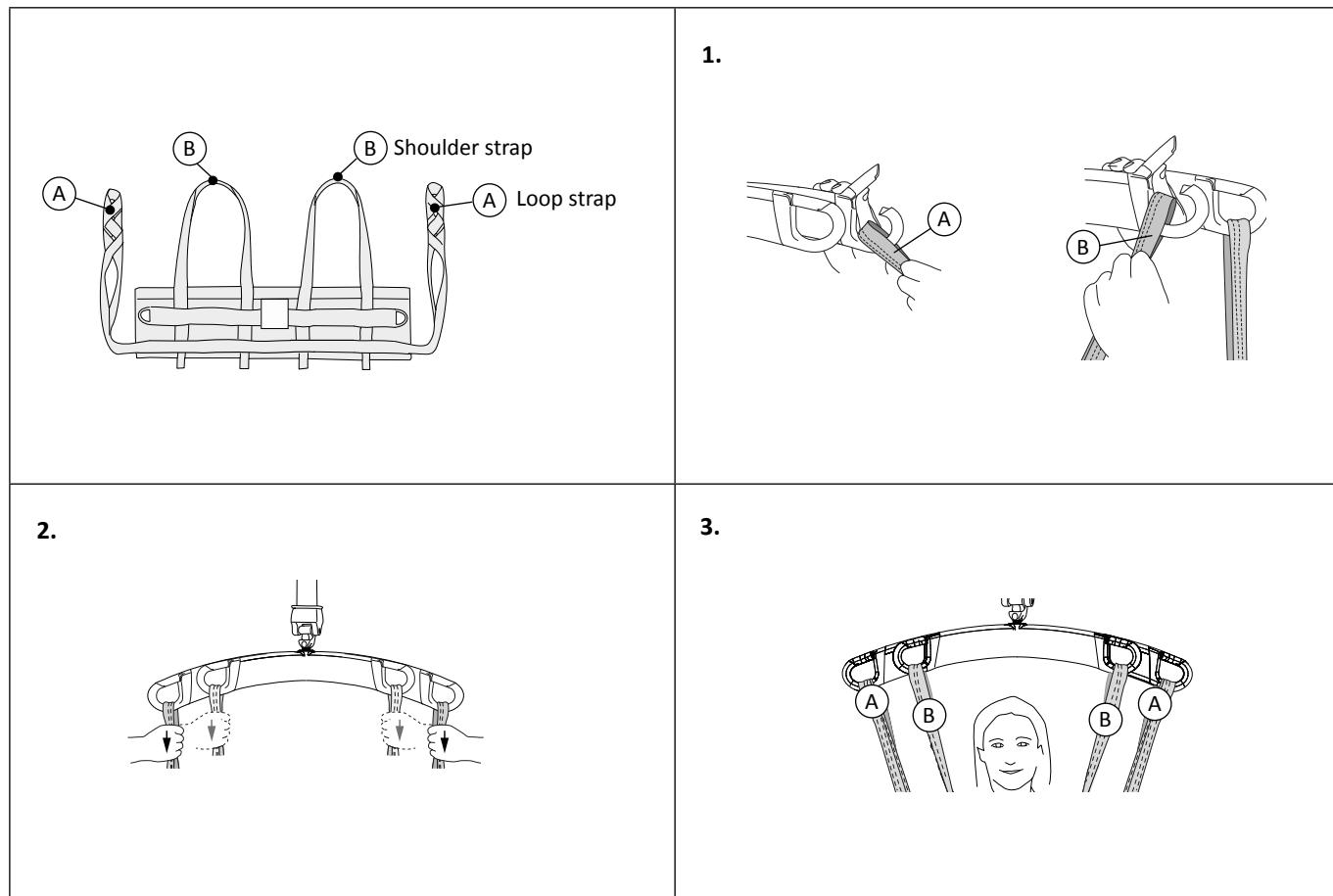
How to Attach a Sling to Different Sling Bars

Sling bar	Sling loops to sling bar hooks	Correct
		
		
		
		

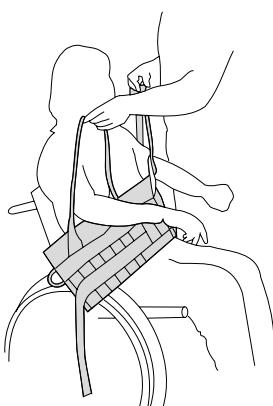
Wrong!



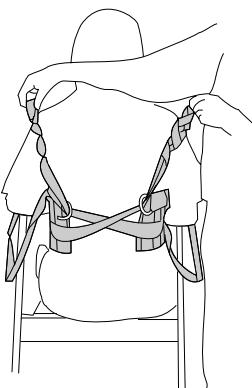
How to Attach a MasterVest to a Twin Bar



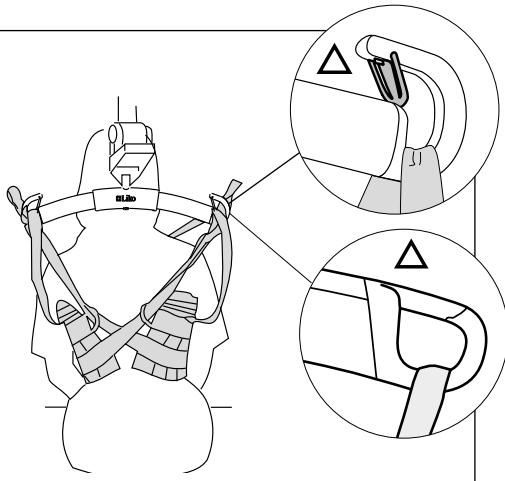
Lifting from a Seated Position



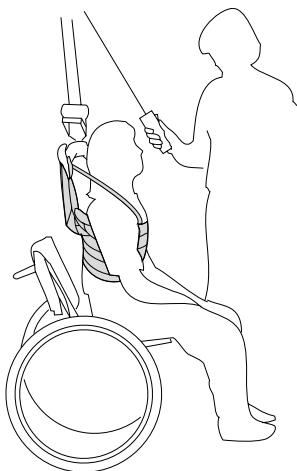
Put on MasterVest from the front. The patient's arms are placed through the shoulder straps.



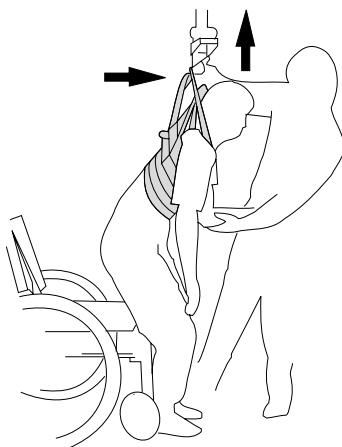
Behind the back: Draw each loop strap across the back and pull it through the metal D-ring on the opposite side, as shown in the illustration.



With the sling bar behind the patient's back, attach the loop straps, using a suitable loop, see page 7-8. Attach the shoulder straps to the sling bar. See page 4-5 for instructions on how to attach the sling loops to different sling bars.



Before lifting: Check that the patient's feet are solidly on the floor so that he/she can bear weight as the sling bar is raised. Raise the sling bar slightly to tighten the straps (without lifting the patient off the seat), and check that the pressure distribution around the patients upper body feels correct.

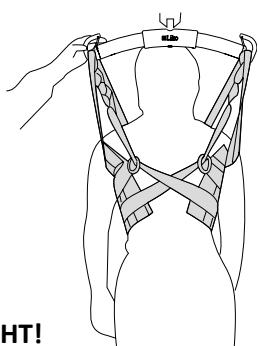


During the lift: Pull the sling bar forward so the patient's weight is transferred smoothly until he/she stands upright and in balance. Lower the sling bar slightly to relieve pressure around the chest. Now the patient has an opportunity to put weight on the legs and work on balance training.

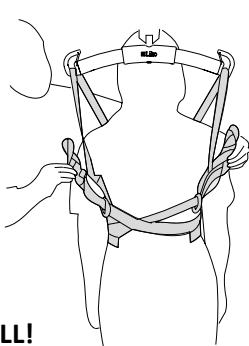
Testing the Liko MasterVest

Selecting the Right Size

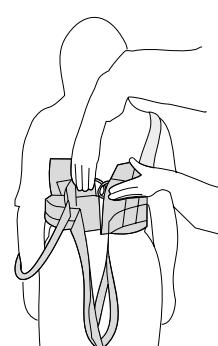
For MasterVest to function properly, the width of the vest must be in correct proportion to the circumference of the patient's upper body. Therefore, it is important to select the right size and carefully determine the correct loop on the loop strap.



RIGHT!



TOO SMALL!



TOO LARGE!

The size is right when the gap between the metal D-rings is between 5 cm (2 inch.) and 30 cm (12 inch.). The larger the size of the vest, the wider the gap can be.

The size is too small when the gap between the metal D-rings is too wide, the loop straps do not reach up to the sling bar, and the pressure around the chest is too great.

The size is too large when the metal D-rings touch. The vest is too wide and does not tighten during lifting but slides upward. A vest that is too large creates too much pressure under the armpits.

Adjusting the Loop Straps

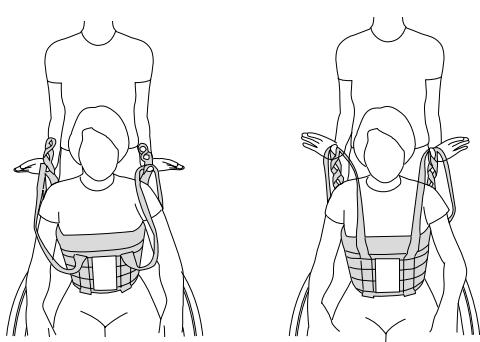
The loop which you hook onto the sling bar determines how much the vest tightens around the chest.

If the vest slides upward - try an inner loop or a smaller size of the vest.

If the vest fits too tightly around the chest - try an outer loop or a larger vest size.

If two different people try the same size, the slimmer person would need an inner loop while a bigger person would need an outer loop. The MasterVest is correctly adjusted when the shoulder straps and loop straps are equally taut when lifting the patient.

Testing the Loop Straps

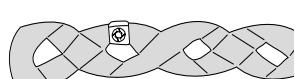


To find which loops give the best fitting, test the loop straps by drawing on different loops along with the shoulder straps.

To test for the correct fitting of the loop straps, stand behind the patient and suspend the shoulder straps and loop straps from your thumbs and lift upward until the straps are taut.

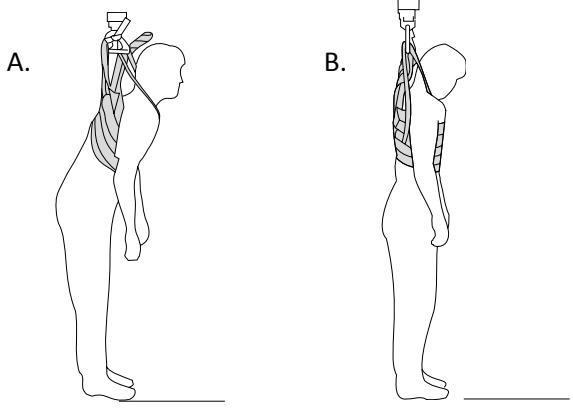
The MasterVest fits correctly when the loop straps and shoulder straps are equally taut when lifted.

Loop Clips



This practical accessory is used to mark the loops that have been tried out for a certain person. It makes it easier for the caregivers to choose the right loop to attach to the sling bar.

Body Posture

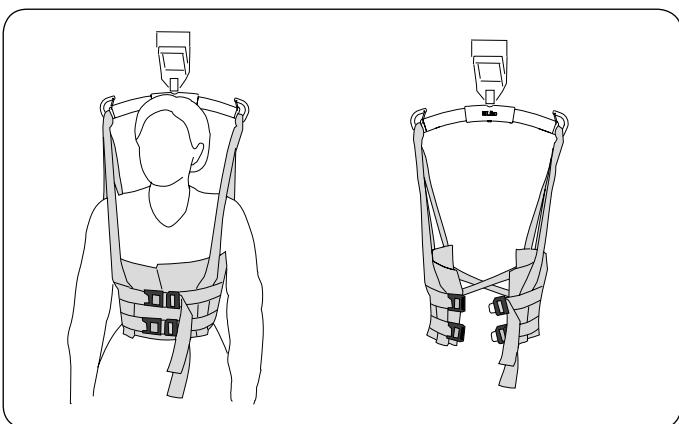


An individual may often fit into two different sizes of the MasterVest, but the loop straps must be correctly adjusted to each size. The results differ regarding body posture and pressure distribution around the chest.

A. A larger MasterVest size requires you to use one of the inner loops on the loop strap. This fitting allows the patient to bend forward, and places more pressure on the lower front part of the chest.

B. A smaller MasterVest size requires you to attach one of the outer loops of the loop strap to the sling bar to obtain equal tension on all four straps. In this case, body posture is more upright and pressure is more evenly distributed around the chest.

Front closure MasterVest, Mod. 64



The MasterVest is also available in a front closure model.

The front closure MasterVest is equipped with two adjustable safety buckles in front. Test for the correct vest size and position of the loop straps even when patients themselves put on the MasterVest. After the MasterVest has been correctly adjusted, it can hang from the sling bar while the patient puts it on.

Liko MasterVest in Plastic-coated Net

The most common sizes of the MasterVest are available in plastic-coated net. Friction from the material counteracts the tendency of the vest to slide upward. A MasterVest in plastic-coated net may also be used for bathing.

Problem during Testing?

Problem: The vest slides up under the patient's arms.

Adjust the MasterVest using one or more of the following suggestions:

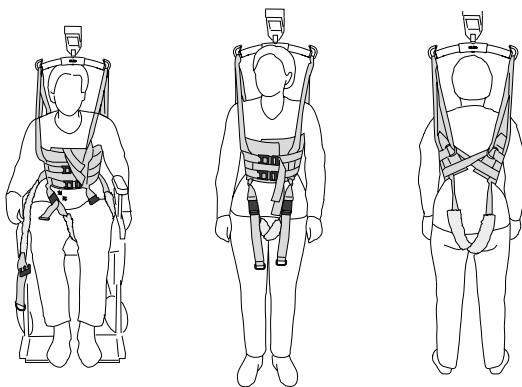
- Adjust the loop strap by using an inner loop.
- Choose a smaller size.
- Try using a Liko MasterVest of plastic-coated net.
- Try using the leg harness.
- Hold the vest in place behind the back while raising the patient by pressing your thumb downward on the crossed loop straps.
- Have the patient keep his/her arms down while lifting.

Liko MasterVest accessories

Leg Harness

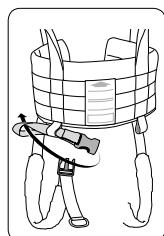
Prod. No. 3666004-06, 3666008-09

A special leg harness can be used with the Liko MasterVest to help keep the vest from sliding up on the body. The harness can be put on while the patient is sitting, and after lifting the patient you can adjust the position and tension of the harness. The harness straps may be crossed or parallel through the crotch.



		<u>Light green</u>	<u>Dark green</u>
Leg Harness, pair	XS, S	3666004	
Leg Harness, pair	M, L	3666005	3666008
Leg Harness, pair	XL	3666006	3666009

Attaching the Leg Harness



NOTE! The leg harness fits vests from serial number 736166. Contact Liko for information on earlier models.

Support Springs

Prod. No. 3156511-13

Springs are available as an accessory in order to enable a gentler, springy motion during gait training. They stimulate the natural pattern of movement and allow the patient to find the right walking technique.

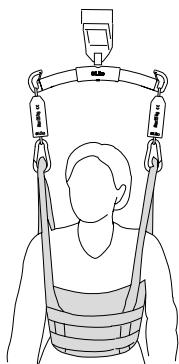
Liko's Springs for patient weights up to 70 kg (154 lbs.) are available in two lengths:

- Long 28 cm (11 inch.), Prod. No. 3156511 and
- Short 22 cm (9 inch.), Prod. No. 3156512

Short springs are recommended in cases where the lifting height does not permit the use of long springs.

For patient weights up to 100 kg (220 lbs.):

- Short 22 cm (9 inch.), Prod. No. 3156513

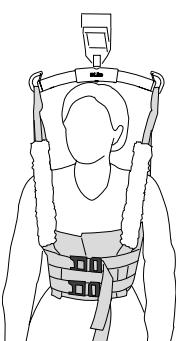


Padded Case for Shoulder Strap

Prod. No. 3666021

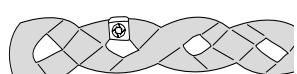
Padded cases are available as an accessory to help relieve pressure on the front shoulder straps.

Padded cases are equipped with Velcro along one side for easy application.



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™ MasterVest™, Mod. 60, 64

Product	Prod. No.	Prod. No.	Size	Body Weight kg ¹	Maximum load ²
TeddyVest	3560812		XXS	< 20 kg (< 44 lbs.)	200 kg (440 lbs.)
TeddyVest	3560813	3564813	XS	20-40 kg (44-88 lbs.)	200 kg (440 lbs.)
MasterVest	3560 - 13		XS	20-40 kg (44-88 lbs.)	200 kg (440 lbs.)
MasterVest	3560 - 14	3564 - 14	S	40-60 kg (88-132 lbs.)	200 kg (440 lbs.)
MasterVest	3560 - 15	3564 - 15	M	60-80 kg (132-176 lbs.)	200 kg (440 lbs.)
MasterVest	3560 - 16	3564 - 16	L	80-100 kg (176-220 lbs.)	200 kg (440 lbs.)
MasterVest	3560 - 17		XL	100-130 kg (220-286 lbs.)	300 kg (660 lbs.)
MasterVest	3560 - 18		XXL	120- kg (264- lbs.)	300 kg (660 lbs.)
MasterVest		3564 - 17	XL	100-130 kg (220-286 lbs.)	200 kg (440 lbs.)
MasterVest		3564 - 18	XXL	120- kg (264- lbs.)	200 kg (440 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.

1 Polyester 4 Plastic coated net 8 Teddy bear patterned polyester
356 - 16 ← Size
 Indicates sling model

Recommended Combinations

	Mini 220	Sling bar 350 ³	Standard 450	Sling bar 450 ¹	Sling bar 600 ⁴	Wide 670	Twin bars 670 ²
TeddyVest XXS	1	1	2	2	3	4	4
MasterVest/TeddyVest, XS	1	1	2	1	3	4	4
MasterVest, S	2	1	1	1	3	4	4
MasterVest, M	2	1	1	1	3	4	4
MasterVest, L	2	1	1	1	3	2	2
MasterVest, XL	3	1	1	1	2	2	2
MasterVest, XXL	3	2	1	1	2	2	2

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

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

³ Sling bar 350 relates to Universal SlingBar 350 Prod. No. 3156074, 3156084, and 3156094, and also SlingGuard 350 Prod. No. 3308010 and 3308510.

⁴ Sling bar 600 relates to Universal SlingBar 600 Prod. No. 3156076 and 3156086, and also SlingGuard 600 Prod. No. 3308030 and 3308530.

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

Different sling bar widths create different levels of pressure on the chest. Try various alternatives until you find the one best suited to the individual patient.

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

Other Combinations

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



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