



SLS

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We are glad that you have chosen our product.

You can find the online training video here



SLS YOUTUBE VIDEO

MedVac = Optimal solutions for storage in the OR area.

The MedVac series from Kohlbrat&Bunz stands for highest quality and latest technology. Surgeries and invasive examination procedures require precise patient positioning to provide the surgeon with optimal access to the surgical area. Through the additional use of pressure-relieving materials, positioning-related damage can be avoided.

Our MEDVAC products have been designed together with experts and are constantly being further developed. MedVac products are made of biocompatible TPU material and are therefore designed for easy and quick cleaning / disinfection.

To take full advantage of the product's performance and to ensure that you get many years of enjoyment from your side bearing system (hereinafter referred to as SLM), please read these operating instructions carefully before use and operate the SLM according to the instructions.

The operational safety and the function of the SLM can only be guaranteed if both the general safety and accident prevention regulations of the legislator and the safety instructions in the operating manual are observed.

We accept no liability for damage caused by improper use or incorrect operation.

Please ensure that all persons who operate or use the SLS have read and understood the operating instructions.

Keep the operating instructions in a safe place so that you can refer to them at any time if necessary.

The SLM (patient lateral support system) is a medical device that may only be used by healthcare professionals who have been instructed and regularly trained on the product.

The type of application is based on the current, generally accepted medical guidelines and recommendations of the relevant professional societies.

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1 Scope of delivery



No	Image	Art. No.
1		<p>Mattress VMOP442</p>
2		<p>Bag TM04X01</p>
3		<p>OPK10X01 1piece</p>
4		<p>Hook strap belt 9011X66 4 piece</p>
5		<p>9047X21 4 piece</p>
6		<p>VMOP KLOBE Left x 2 pieces Right x 2 pieces</p>
7		<p>OPK05X01 1 piece</p>
8		<p>OPK03X01 2 piece</p>
9		<p>OPK11X01 2 piece</p>

2. Features

The SLS side bearing system offers you quality at the highest level and sophisticated technology. Great attention has been paid to the user-friendliness and precise manufacturing of the product.

The **SLS** consists of a multi-chamber system made of latex-free materials.

The **SLS** is used for fixation / positioning of patients during thoracic/kidney surgery.

The whole system is designed to be ready for immediate operation without prefabrication of the filling material. No complex preparation is required with this product.

3. purpose

The **SLS** is used for fixation / positioning of patients in the intraoperative setting.

3.1 Detail Definition:

Vacuum mattress for positioning during operations in the thoracic/kidney areas.


4. security

4.1 Operating instructions

Observe the operating instructions. Any commissioning and handling of the system requires precise knowledge of and compliance with these operating instructions.

The SLS is intended only for the use described.

In these operating instructions, particularly important remarks are highlighted as follows:

	<p style="text-align: center;">Warning. This is a warning that indicates risk situations and dangers. Disregarding this warning can sometimes lead to life-threatening situations. It is essential to heed these warnings.</p>
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4.2 Accessories

The accessories approved by the manufacturer are included in the scope of delivery of the **SLS**. A detailed overview can be found at the beginning of the operating instructions.

4.3 Combination with other products

If an absorbent, pressure-relieving insert is also used, you must also observe the manufacturer's instructions for use for this and keep them available accordingly.

Please note that only products approved by the manufacturer may be used in combination with the SLS.


4.4 Safety instructions

The **SLS** is designed to ensure the greatest possible safety for the patient when handled correctly and used properly.

4.5 Liability for function and damage

The liability for the function of the **SLS** is in any case transferred to the owner or operator, as far as the product is improperly maintained, repaired or changed by persons, who do not belong to an authorized specialist company, or if a handling or use takes place, which does not correspond to the intended use.

The **SLS** must be used in accordance with these operating instructions. Kohlbrat & Bunz is not liable for damage caused by non-observance of the above instructions. Warranty and liability conditions of the sales and delivery conditions of Kohlbrat & Bunz are not extended by the above instructions.

	Ensure that the operating instructions are accessible at all times and that they are read and understood.
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5. areas of application

The SLS is a mattress, vacuum / vacuum stabilized cushion in the definition area of a medical device.

It is a multi-chamber product for patient immobilization during positioning in the medical field.

Only use the **SLS** in the defined intraoperative application area.

5.1 Unpacking / transport.

Remove the **SLS** from the supplied bag and place the product on a firm and level surface. Check that the scope of delivery is complete.

5.2 Installation / Storage.

The **SLS** can be used on any commercially available operating table.

To ensure maximum compatibility, the SLS is supplied with various "clamps" (fastening elements) for attaching the patient to the "system rail". Always use the **SLS** in such a way that the working area and the ability to operate are not restricted.

In case of prolonged non-use, do not bend the **SLS** and protect it from moisture and dust.

6. commissioning

Before starting up the **SLS**, check that the system is tight by aspirating the air. After this test is positive (**SLS** remains hard), open the valve briefly and close it again.

To do this, observe the following procedure for the vacuum valve:

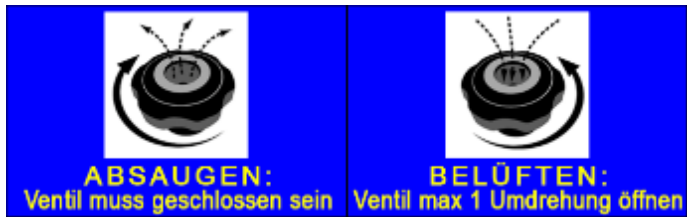
The vacuum valve is turned clockwise - closed (turn to the right)

To open the **SLS** system

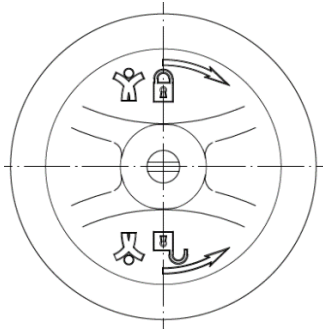
Basic position - turn valve counterclockwise (turn to the left)

6.1 Vacuum valve variants

Valve variant 1:



Valve variant 2:



6.2 Suction by external device

An external suction device is required to extract the air or to create the vacuum in the **SLS** system. Suction devices that can generate a vacuum of at least 0.8 bar are suitable for this purpose, e.g. OP suction devices.

If you do not have such a device at your disposal, you will need a manual suction pump, which is available from us separately as an accessory.



Fig. of an exemplary OP suction cup

To establish the connection between the suction device and the **SLS** system, you need the commercially available connection hoses. Depending on the type, these can either be connected directly to the valve or via an adapter, which is also available as an accessory.



Hose directly connected



Hose connected via adapter

6.3 Setting up / preparing the SLS system



Place the **SLS** on the operating table with the outside (gray side) facing down.
Position the **SLS** so that the surgical site is freely accessible.

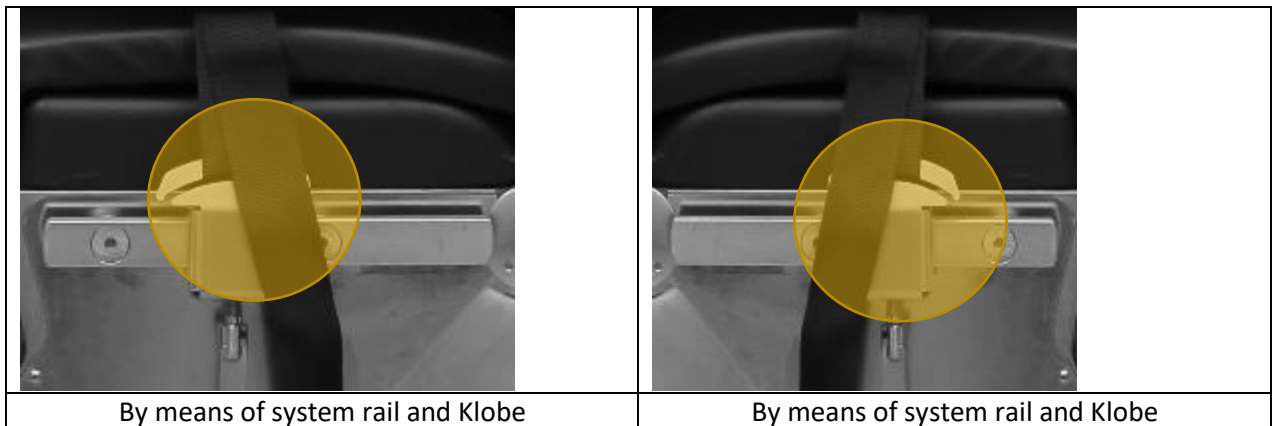




Straps No. 5 (9047X21 4pcs) are used to fix the patient.
These belts are hooked onto the standard rails or fixed by means of Klobe. (see accessories)



Clamps for fixation - Attention there are left and right parts



The head shell is placed on the gray tab with the anti-slip strips (marking field for weight) and adjusted in height to the patient by means of segment padding.

For pressure relief, use the cushion with the designation OPK1 (component 8 in the overview)

7.0 Operation

If possible, place a pressure-relieving absorbent pad on the **SLM**.

Use without a pressure-relieving pad is possible, but must be checked by the surgeon before use.

On the basis of the current list you will find the editions released by us or tested for the **SLM**.

Designation: AM04X01 / Kohlbrat & Bunz

Designation: AM05X01 / Kohlbrat & Bunz

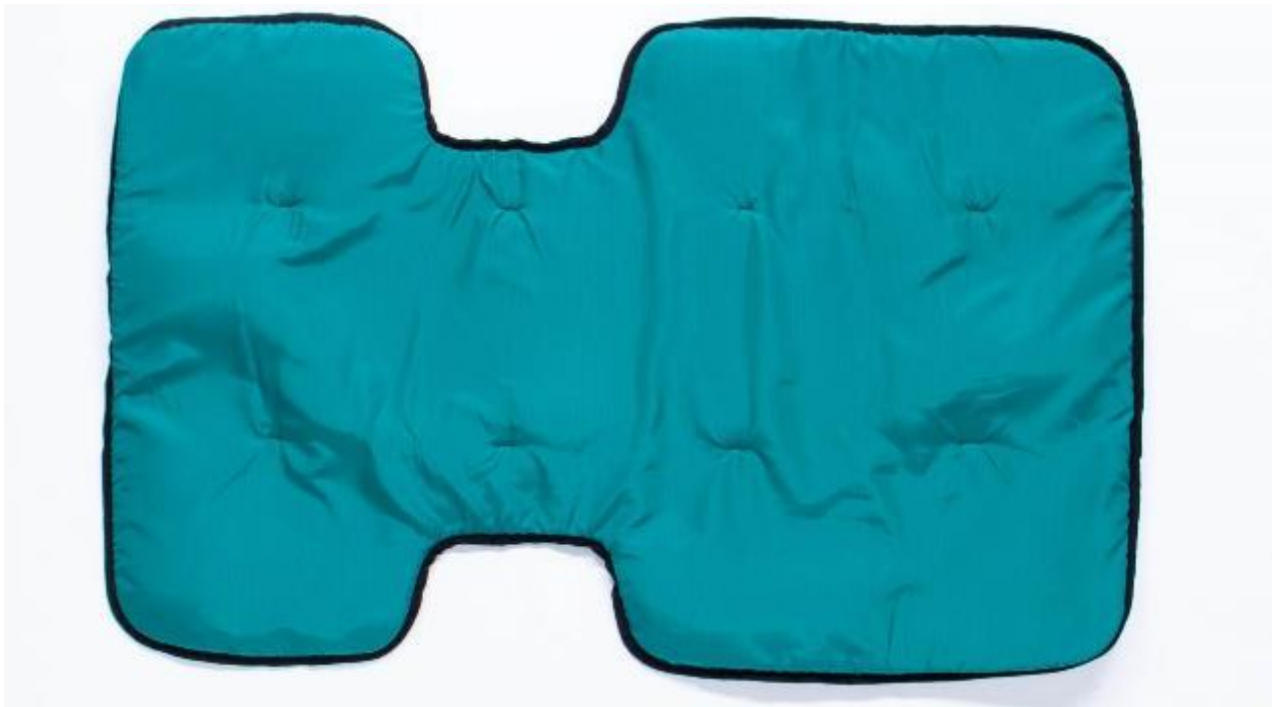


Fig. AM05X01 : Absorbent / pressure-relieving pad



**Only use an approved support according to the accessories list.
Please consult us if anything is unclear.**

The patient can now be placed on the **SLS** provided with an absorbent, pressure-relieving pad on the operating table.

(If necessary, the inflatable roller can be positioned in a suitable place under the SLS).

For details on the exact handling of this product, please refer to the associated instructions.

8 Application example

The patient belts, fitted with the appropriate cushions (long or short version), are pushed onto one side of the mushroom holders of the **SLS** and locked in place.

These are subsequently used to adapt the **SLS** to the patient and hold the patient in position during surgery.

When the patient is released by the anesthesia team, the patient is placed in lateral positioning and secured with the patient straps.

The open ends of the patient belt are connected to the clamps (hooked in with the loops), and the patient belt is tightened with the free end.

In the shoulder area, the side part of the SLS is folded outwards and hooked onto the mushroom head with the patient belt. It is then passed over the patient to the lobe mounted on the standard rail and hooked into the lobe with the loop and tightened.

The valve of the SLS must be closed!

The arms are moved to the side and fixed on commercially available support devices.

The leg sections of the SLS are fitted to the patient and held in place with Velcro. (A pressure-relieving overlay is recommended).

Insert the hose into the valve and start aspirating the air. When 0.8 bar is reached, remove the hose from the valve.

Check patient belts for correct fit and tightness, check legs for pressure points. Put kidney roller under pressure if necessary.



8.1 Application in images

Please also see the link to the application video.

You can find the link at the beginning of the tutorial

In the following images, a pressure-relieving absorbent pad was not used in order to simplify the handling procedure for **SLM**.

Instruction in pictures



Insert OPK05X01 pressure-relieving cushion
Note positioning, diaphragm must point upwards.



Place patient in lateral position, position arms laterally on positioning aids and fix them in place.



Attach lower blue leg parts of the SLS and bring into position using Velcro tape



Velcro straps are fixed after fitting the SLS.



Upper blue leg section is placed over the patient's lower leg, and is fitted and fixed with Velcro straps.



Upper leg part is now formed and fixed by means of the Velcro strap



Patient belts were attached and tensioned in opposite directions. Nirenrole was positioned but not pressured. (inflated)



Side panel in the shoulder area of the SLS is clipped outward to support the shoulder.



Patient belt with matching cushion is hooked onto the Piltz head and passed over the patient to the opposite side hooked onto the clamp and tensioned.



Belts were positioned and tensioned adjusted.



Air from the mattress is extracted by means of a hose and a vacuum pump.



Kidney roll pressurized to hyperextension.



Position flat on the operating table



Patient intraoperatively brought into 45° position



Head down position in conjunction with a 45° bearing arrangement



Fig. SLS molded-on shaped shoulder support

9. cleaning

Approved surface disinfectants as of 12.2016.

Please observe the current list of approved disinfectants. The use of non-approved agents may lead to discoloration or even damage to the TPU material.

Possible antiseptics for purification:

Descogen liquid,
Incidin Pro,
Incidin Active ,
TPH protect,
Microzide AF liquid,
Acrylic Des
Perform.

Only lint-free cloths may be used to clean the anti-slip strips!

10. warranty

The warranty period of our products is 12 months. If a defect occurs in your product within this warranty period, please contact our service staff directly. The **SLS** may only be operated in a technically perfect condition. In case of defects that could endanger employees or third parties, the **SLS may** only be used again after it has been repaired. Damage caused by improper use, external mechanical influences, transport damage or unauthorized intervention by unauthorized persons is not covered by this warranty.

11.spare parts and accessories

On the basis of the list of the scope of delivery under point 1, you will find all articles / components which can be obtained from us as spare parts.

12. repairs

Repair kits including instructions are available for the repair of minor damage (pinholes, etc.). After the repair has been carried out, the **SLS** must be checked again for leak tightness; if this is given, the **SLS** may be used again.

If more extensive repairs are required, these may only be carried out by the manufacturer or a person authorized by him.

13. EG/MDR - DECLARATION OF CONFORMITY