USER INSTRUCTIONS

MKS® OSTEO FLEX

SPINAL ORTHOSIS
1. Introduction

1.1. Foreword

Our MKS® Modular Corset System straightens and stabilizes defined areas of the vertebral column in order to achieve postural corrections which actively support rehabilitation in specific indications.

Our MKS® programme is comprised of a modular system which can be divided into an orthesis set consisting of rigid supportive elements and a set of partially elastic, smoothly-fitting back-and-body bandages which adapt comfortably to the body.

By combining the individual components of the two sets an exact adjustment to both the respective indication and the patient can be achieved.

1.2. Customer information

For your own safety, please read this User Instructions carefully before using the brace. Proper use and operation of the brace will only be possible if you have carefully read and understood all instructions, notes and procedures. Should you have any doubts with regard to the User Instructions, or should any of the instructions, operations or safety notes be unclear, please contact your local dealer or the manufacturer albrecht GmbH directly, before using the brace. This holds particularly true for the safety notes.

1.3. Mode of operation

The MKS® Osteo flex spinal orthosis functions according to the reclination principle. The two shoulder straps attached to the flexible back piece straighten the vertebral column to relieve the thoracic spine. The wide lumbar bandage with the additional tensioning straps straightens and hence relieves the lumbar vertebral column. The reclination straps are attached to the lumbar bandage through additional lateral straps. Hereby rotation is limited and stabilisation is ensured.

1.4. Application

The brace must only be used for the orthotic treatment of the vertebral column.

The MKS® Osteo flex assists treatment in the application area from the third thoracic vertebral body to the fifth lumbar vertebral body in adults. It provides stabilization of the entire spine. The MKS® Osteo flex is intended to help you achieve a lifestyle that is as independent as possible while still meeting your needs and matching your personal capabilities.

1.5. Scope of delivery

The MKS® Osteo flex is delivered to you ready for use, in the size you ordered, with User Instructions and labeling on the product.
1.6. Declaration of conformity

1.7. Features
- Semi-elastic bandaging material
- Lateral reinforcing stays
- Firm abdominal piece with hook and loop fastener
- Textile back piece with paravertebral steel tape rods
- Adjustable back plate with incorporated aluminium profile
- Reclination straps
- Individual strap course

1.8. Indications
The physician will decide on the type of treatment to apply based on his diagnosis. Generally the use of the MKS® Osteo flex is indicated in:

All indications requiring an active straightening for relief and correction of lumbar/thoracic spine as well as limitation of movement in sagittal plane, such as:
- Osteoporosis
- Stable, osteoporotic and traumatic vertebral fractures
- Sintered vertebral fractures in osteoporosis
- Pain caused by poor posture, e.g. rounded shoulders
- Poor posture
- Hollow round back
- Chronic lumbago caused by hyperlordosis
- Spondylodiscitis
- Facet syndrome
- Degenerative changes in the lumbar spine
- Tumor
- Condition after intervertebral disc surgery
- Muscle insufficiency
- Abdominal muscle insufficiency
- Spondylitis

For all other indications a physician must be consulted.

1.9. Contra indications
The brace is only intended for use in contact with intact skin.

1.10. Safety Instructions
The optimal effect of the brace is only achieved when used correctly.

- The brace must only be used in the intact, complete and mechanically undamaged condition and with complete and intact cushioning and walers. This must be verified by the user before each usage.
- Opening or removing one or more belts, as well as excessive loosening of the waler when using the brace leads to a reduction of the therapeutic effect of the brace and may lead to injury.
MKS® Osteo flex

User Instructions

• The brace must not be worn over open wounds.
• The skin should be free of oils, grease, gels or other debris, to prevent reactions with the skin or the structure of the material.
• The orthosis should fit firmly but not too tight, so as not to restrict the blood circulation and adversely affect nerve and lymph vessels. Excessive compression is therefore to be avoided.
• Combination with other products is currently not provided for or is to be agreed with the manufacturer in writing.
• The brace is not intended for single use, but is intended for multiple use by a single person.
• The product as delivered is not sterile.
• Contact your physician immediately in the event of an allergic reaction.
• Please note that cushioned sections can heat up under direct sunlight. Protect the orthosis from direct sunlight if necessary.
• Currently there is no test for flammability. Exercise caution when using the orthosis in the direct vicinity of open flames such as lighters and cigarettes.

1.11. Warranty

We assume the warranty for the brace for a period of 3 months. The brace is a medical rehabilitation device and must not be used for any purpose other than the intended, as described in the Instructions for Use. Changes to the brace or other applications require the written consent of the albrecht GmbH. If this is not obtained, the manufacturer may not honor the guarantee. If you are using single joints or other components, these should be used as intended. If changes or modifications (e.g. additional mounting holes) are made to the individual parts or components, the manufacturer’s warranty no longer applies. The removal of or damage to the QM seal will also void the warranty.

1.12. Transfer of the brace

The brace is not intended for single use, but rather is intended for multiple use by a single person. We do not recommend transfer to other users. Should this be desired however, please ensure to pass on the care and cleaning instructions and have the brace checked by an authorized specialist dealer for safe and proper operation.

1.13. Disposal

The brace contains recyclable materials without toxic or other harmful substances or other environmentally hazardous substances. Provided it is not contaminated with infectious germs, the brace can be deposited in the normal waste disposal. To be sure, consult your specialist orthopedics dealer.

1.14. Adjustment

The back piece of the MKS® Osteo flex plus will be adjustet to the patient and the indication by your orthopaedic technician. The reclinations straps can be shortend individually.
2. Putting the brace on

For those patients using the MKS® Osteo flex for the first time it is important that they earn how to handle it. Putting it on and taking it off should be practiced.

Wear the MKS® Osteo flex directly on the skin or over a tight-fitting singlet without any creases. It is recommended that an absorbent singlet be worn to avoid humidity caused by excessive sweating.

To put on the MKS® Osteo flex please follow the steps below. This will ensure reliable effectiveness.

Always make sure that the MKS® Osteo flex is a smooth and tight fit. However, in order to prevent constrictions along the edges it shouldn’t be over-tightened.

1. Take the ready for use MKS® Osteo flex, previously adjusted by your orthopaedist, out of the packaging and put it on like a backpack.

2. Close the body belt using the hand loops. Make sure that the belt fits correctly, i.e., flat and without any creases.

3. Tighten the reclination straps by pulling them downwards and attach them flat onto the body belt through hook and loop connections.
3. Cleaning, maintenance and disinfection

The orthosis is designed to be maintenance-free. To ensure proper operation over the period of treatment the orthosis should be cleaned regularly (at least every 3 months) or as required, according to the following instructions.

3.1. Care

- The product as delivered is not sterile and is not suitable for sterilization.
- Do not use harsh or abrasive cleaners.
- All fabrics can be washed by hand at 30°C using water and a mild detergent and/or disinfectant.
- Not machine washable.
- The MKS® Osteo flex can be dried in the open air.
- In the case of more severe soiling, a replacement set of textile parts is available.
- Wipe down surfaces with a cloth soaked with disinfectant.
- Wet completely, and do not wipe off.
- Spray inaccessible surfaces.
- When spraying ensure complete wetting.
- A mild alcohol-based disinfectant is recommended.

Ask your physician or pharmacist when selecting a disinfectant, and follow the instructions given by the disinfectant manufacturer. The Robert Koch list of approved disinfectants can be found at http://www.rki.de.
4. Technical data

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<th>Description</th>
<th>Material</th>
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<td>Body Belt</td>
<td>elastic material 28% viskose, 48% perlon, 24% elastodiene</td>
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<td>binding 83% viscose, 17% dorlastan</td>
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<td></td>
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<td>Pads</td>
<td>velours PA</td>
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<td>Straps</td>
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5. Choice of size

The MKS® Osteo flex is available in three sizes as per the table below.

Back piece = length from the sacrum to about 2 to 3 cm below the cervical vertebra C 7.

6. Size chart and article numbers

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