VOLKER

Instructions for use
Model 5384 Kepler™ - Style - Select

Help

Hyperlinks in interactive PDF files

Hyperlinks are cross-references in the text. They are marked with the 🕮 symbol. The entries in the table of contents also have hyperlink functionality.

- Clicking on 🕮 takes you to the relevant page.

Full-text search for a term

- Clicking  opens the "Search" window.

You can search for any term in this Acrobat document or optionally search all of the Acrobat files stored on your computer or those that are accessible.

Further interactive functions

The Adobe Reader and all Adobe Acrobat program versions offer the experienced user a whole range of highly useful functions for working interactively with documents. For further information, refer to the relevant user manual and/or online help.

Show the table of contents

Jump to Help page (this page)

Contents **2 of 104** **Help**

Version, Imprint, Type labels

Instructions for use G155
Rev. 7 (03.2018)
for Völker Bed 5384 Kepler Style - Select
from year of construction 03/2016

CE

Manufacturer:

Völker GmbH
Wullener Feld 79, 58454 Witten
GERMANY

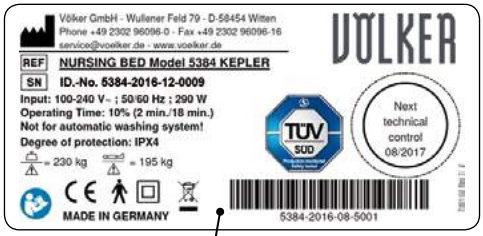
Tel.: +49 2302 96096-0
Fax: +49 2302 96096-16
e-Mail: info@voelker.de
Internet: www.voelker.de

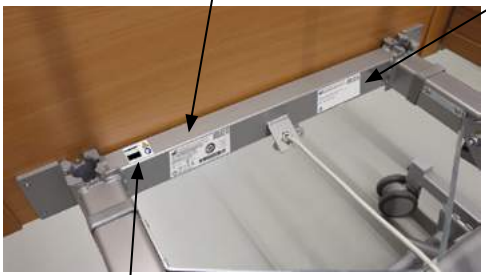
We reserve the right to make changes due to technical development.

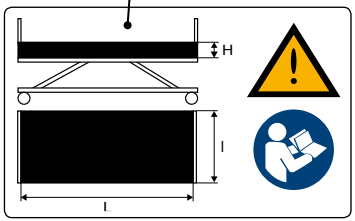
The contents of this document are subject to change without prior notification.

Customers are advised to contact the responsible area sales representative before placing an order.

Type labels







Please observe the notes and instructions for use for the mattresses!

The type labels are located on the inside of the head panel.

Raise the back section to read the type labels.

The ID No. is made up as follows:

5384-2016-12-0009

Model	Year of construction	Production week (calendar week)	Consecutive number

The type labels shown on this page are examples.

For further information on the type labels, see Appendix 🕮 83.

Table of contents 1/2

Table of contents 2/2

Foreword

We are delighted that you have chosen Völker beds.

We are also grateful for the trust you have placed in our company and our products.

This step is undoubtedly the result of extensive considerations and examinations of the requirements that you have placed on new care or hospital beds based on your previous experiences.

You clearly have good reasons to choose a Völker bed.

We promise you: Völker beds will not disappoint you.

Völker beds do not carry a worldwide reputation as highly innovative medical aids without good reason.
This refers not only to the design principle, which was completely redeveloped by Völker. It also refers to the multitude of product advantages which were continually tested and improved for their practicality. These will support the comfort of the occupant/patient and also help reduce the load of daily care work.

We kept a modern design and effective functionality in mind when developing Völker beds.
The beds are designed with a pleasant hotel look. The electronics allow comfortable adjustment of the bed using quiet motors.

Having purchased these beds, the responsibility for their correct and appropriate use is transferred to you. Consequently, we strongly advise that you consult the enclosed instructions for use to learn about the technical features, handling and use of all the functions.

Notes

The **Notes** section contains information on the designated purpose of the product, as well as general safety notes.

CONTENTS

General information

You have purchased a bed from Völker GmbH. This bed has been built in accordance with the applicable national and international standards and regulations reflecting the current state of technology.

Völker beds satisfy requirements in terms of safety and functionality. They are tested in accordance with international standards and bear the CE mark, which documents the beds' compliance with essential requirements for medical products (DIN EN 60601-1 and DIN EN 60601-2-52).

Please read the general safety notes 📖 12. Please observe (with particular attention to any warranty claims) the further instructions on the following pages.

Variants

The bed can be designed in different variants. A description of these variants can be found in the "Versions" section 📖 29.

You can also find information on different operating variants or different technical data for the models at various points in these instructions for use. You can recognise the variant of your bed based on the type label 📖 83.

Standard design

The standard design of the bed can be supplied with various options. A description of these options can be found in the "Versions and Options" section 📖 29.

Copyright protection

Guarantee and liability

Völker beds are supplied with a comprehensive guarantee that is described in detail in the order confirmation.
For more extensive information please contact Völker.

We reserve the right to make technical modifications without notice as part of the further development of the beds which form the subject of these instructions for use.
All specifications are non binding.
Printing errors are reserved.

We accept no liability for damage and operational faults caused as a result of misuse and/or non-observance of these instructions for use.

The portrayal of the accessories does not necessarily match the actual product.

Notes | Designated purpose 1/2

Intended use

The Völker beds 5384 Kepler are beds for medical use and are intended for the laying down and care of adult occupants/patients in care institutions and retirement homes (Application environment 3 as per DIN EN 60601-2-52).

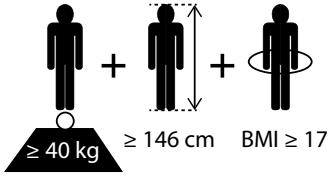
The application environment 3 involves long-term care in a medical sector in which medical surveillance is required and supervision is provided if necessary. This includes retirement and nursing homes, rehabilitation facilities and geriatric facilities.

The bed is intended for use by people over 12 years of age and with a height of 146 cm to 185 cm, as well as a body weight of 40 kg to 195 kg. Their Body Mass Index (BMI) must be over 17.

The Body Mass Index is an index value derived from body weight and height.

The BMI is calculated from the formula:

$$BMI = \frac{\text{Body weight}}{\text{Height}^2} \quad \left[\frac{kg}{m^2}\right]$$



The safe working load of the bed is 230 kg. To calculate the maximum patient weight, DIN EN 60601-2-52:2010 stipulates subtracting from the safe working load, when using the bed in application environment 3, 20 kg for the weight of the mattress and 15 kg for accessories as well as the load that is borne by the accessories.

Any use of the Völker bed extending beyond this intended use is excluded from a potential liability.

The safe working load and the maximum patient weight can be taken from the following table:

Model	Safe working load of the bed	Maximum patient weight
5384 Kepler	230 kg	195 kg

Notes | Designated purpose 2/2

Inappropriate use

Inappropriate use can be dangerous.

This includes, but is not limited to:

- Incorrect actuation of electrical functions and uncontrolled positioning
- Operation of the bed by the occupant/patient without having received prior instruction in how to do so
- Use of other electrical equipment on the bed
- Pulling on cables to move the bed
- Removing electrical plug connections by pulling on the cable
- Use of the bed on a slope of more than six degrees of inclination (the bed's brakes are designed for an angle of inclination of no more than ten degrees)
- Any attempt to move the bed while it is in braked position
- Use of the bed to transport people
- Use of the bed for transport within a vehicle
- Overloading of the bed beyond the specified safe working load

⚠ **CAUTION** The bed may not be used for patients/occupants under 12 years of age or who are less than 146 cm tall.

⚠ **WARNING** The bed may not be placed right next to or stacked up with other equipment. Should the operation be near to or stacked up with other equipment be necessary, then it must be ensured that the operation of the bed is observed, and correct use in this arrangement is checked.

General Requirements

The bed must only be operated and used in accordance with its designated purpose, in line with the applicable conditions, the generally acknowledged rules of technology and the occupational safety and accident prevention guidelines. The bed must not be operated in a faulty state that could endanger its occupant/patient, care personnel or third parties.

User training

The bed may only be operated by individuals whose training or understanding and experience offer surety for correct handling.

User instruction

The thorough induction of care personnel in the operation of the bed can be provided by Völker or its representatives at the customer's request.
Attendance of such training can be certified and confirmed by Völker using the form provided for this purpose, specifying the name, date and signature. Occupants/patients must be instructed in the use of the bed before care personnel can hand over control to them.

Other requirements

Whoever is in charge of the activation, operation or preparation of the bed must have been given a copy of these instructions for use (in printed or electronic form) and have read them.

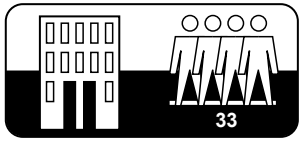
To avoid operating errors and to safeguard the smooth operation of the bed, care personnel must always have access to the safety notes below.

Flooring requirements

Increasingly overweight patients and occupants have caused a consistent increase in demands on hospital and healthcare beds in recent years. Völker has addressed this topic by increasing the "safe working load" for the beds. The higher strain requirements are not limited to beds only, they apply also to static and floor requirements.

We therefore recommend using flooring that is designed for these strains in areas where the beds are used. This is flooring which is classified and properly laid according to DIN EN 685 minimum class 32 or 33. This is flooring for areas intended for public and industrial use with moderate or heavy traffic.

Floors corresponding to the above classifications can be marked with the following logo:



Notes | General safety notes 1/4

Warning symbols
Information marked with this symbol must always be read and strictly observed.

CAUTION represents potentially dangerous situations that can cause slight physical injuries.

DANGER represents an immediate threat of danger that will cause serious physical injury or death.

WARNING represents potentially dangerous situations that can lead to serious physical injury or death.

NOTE warns of potential damage to objects or property.

Before first activation

Care personnel must read these instructions for use carefully and in full before the bed is activated for the first time.

Before the bed is activated, care personnel must be instructed in the handling of the bed using the instructions for use. In addition, the potential risks which may arise despite the proper operation of the bed must also be pointed out in full.

Before and during use

Before each use of the bed, the user must be sure that the bed is in a proper condition and that safe use is ensured (Functional check 🕮 71).

WARNING If other devices are operated on the bed, which are provided with cables, air hoses or similar, make sure that these lines are routed so that they cannot become jammed in the moving parts of the bed or be damaged.

Position of the beds

CAUTION To avoid injuries caused by falling, we recommend (except while care is being given) that the bed is generally set at its lowest position with the guide castors fixed when the patient is asleep in the bed.

Transporting the bed

CAUTION The bed is not designed for transporting people. When moving the bed, it must always be ensured that the main connection cable does not touch the ground and that the lying surface height is at least 35 cm.
The bed should only be moved over a solid surface.
Never attempt to push it over obstacles of over 1 cm in height.
The maximum angle of inclination of the floor must not exceed 6°.

Securing the bed

CAUTION "Risk of accident"
If the bed is not moved, the guide castors must always be fixed and latched into place, if necessary, since the bed may be required as a support for when the occupant/patient stands up or lies down. If the bed rolls away without the castors being braked, this can lead to a serious fall.
Once the castors have been applied, check that the bed is actually properly parked.

The bed sometimes finds itself in an unbraked position after each activation or reactivation and must therefore be checked subsequently to ensure the castors are fixed properly.

NOTE Please note that the brakes are most effective only on dry, clean and slip-resistant flooring.

One-sided load on the bed

NOTE In order to prevent one-sided loads on the bed, it must not be used as a seat for persons other than the occupant/patient (i.e. visitors must not sit on the edge of the bed).

Side rails

WARNING "Risk of entrapment"
In the case of occupants/patients whose physical or mental condition makes it necessary to use side rails to protect them from falling out of bed, the following safety measures must be observed:

- The legal permissibility of using side rails must be ascertained.
- The side rails may only be operated by trained care personnel.
- It must be ensured that the occupant/patient does not come into contact with the side rail

elements upon activation of the electrical lying surface adjustment. It is also important to ensure that no part of the body is sticking out through the side rails.

- Ensure that the side rails (or parts thereof) are either fully raised and locked in position or completely lowered.
- If the side rails are used with a person whose psychological condition makes their use necessary, then it must be ensured that the hand control is kept out of his/her reach or its functions are locked. It is also strongly recommended that side rail protection covers are used.

⚠ **DANGER** If these safety measures are not observed by care personnel, injuries can be caused to hands, knees, fingers, feet, legs and hips, along with haematomas and other injuries as a result of entrapment.
With children or people who are less than 146 cm tall, non-observance of these guidelines can lead to death!

Height adjustment

⚠ **DANGER "Risk of entrapment between the lower frame and/or floor and the bed frame when the bed is lowered"**
It must be ensured that no people, limbs, pets, bed linen or other objects are caught between the bed frame and the lower frame and/or floor during adjustment.

⚠ **DANGER "Danger of movement"**
If any movement of the bed could represent a danger to the occupant /patient, all functions must be locked.

Accessories

⚠ **WARNING**
"Risk of injury"
Only original Völker accessories should be used! Third-party accessories must undergo testing by the operator before use.

Use of lifting devices

The lifting devices specified are appliances that can be attached to the bed for transport purposes. Patient lifters can be used.

⚠ **WARNING "Risk of injury"**
No lifting device must be fastened directly to the bed (patient transport, repair).

Use of oxygen equipment

⚠ **DANGER "Risk of fire"**
Do not use any oxygen equipment other than that which is administered via nasal prongs or masks. Never use the bed in an oxygen tent or in potentially explosive atmospheres (where flammable gases or vapours are present).

Provided it has been excluded (e.g. based on information in the instructions for use of the equipment being used) that the use of the equipment or a fault may cause the O_2 concentration to rise to such a degree that there is an explosion risk, then the equipment can be used.

Rail infill panels

When using the rail infill panel, please read the separate instructions for use for this accessory. During technical checks, the rail infill panels should also be checked to ensure they are suitable for the size of side rail used.

Cleaning and disinfection

In order to maintain consistent functioning, the bed should be cleaned, disinfected and tested as soon as possible following each use, so that it can be reused immediately without risk.

Incorrect cleaning/disinfection of the bed can cause danger.

Maintenance and repair

Anyone responsible for carrying out maintenance and repair work must at least have received instruction from Völker in the service tools, have read the safety notes and the service manual and be qualified in accordance with the law on medical products § 4.

After maintenance work or repairs have been carried out, a technical check must be carried out on the affected parts and/or functions 🕮 71.
During this check, it must be determined whether the bed can be used in accordance with the specifications without risk to the occupant/patient, user or a third party.

A technical check must be carried out at least once a year and after every lengthy period of non-use.

Any discernible damage, such as signs of wear and tear, loose screws or breaks/fractures must be eliminated immediately.

Electromagnetic and electrostatic interferences

The beds in model series 5384 Kepler satisfy the EMC* requirements in accordance with the law on medical products (MPG). The basis for testing is standard EN 60601-1-2.

* Law concerning the Electromagnetic Compatibility of Operating Equipment

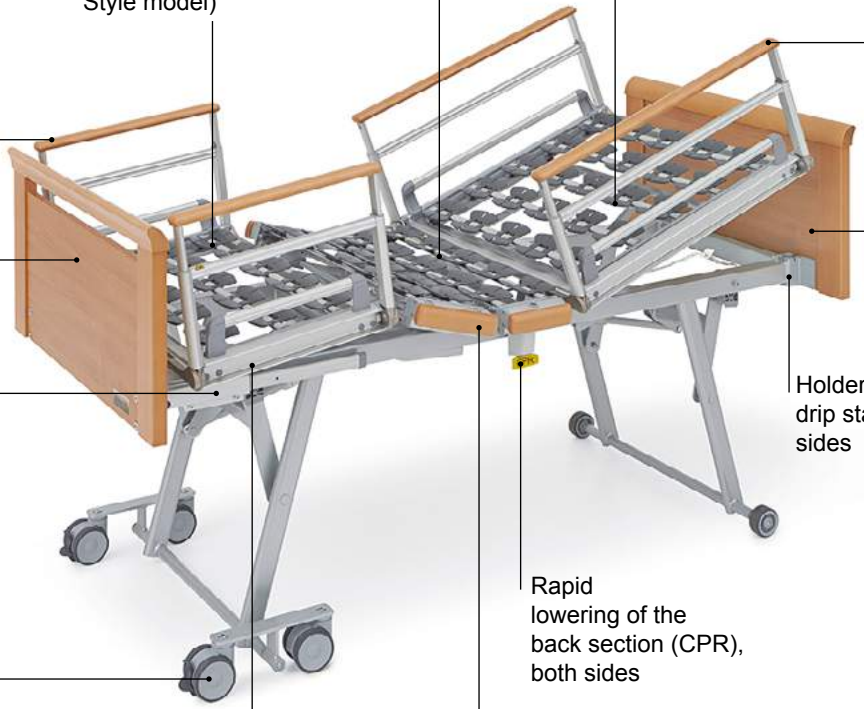
Functional description

The features of the Völker care bed and its function are set out in the **Functional description** section .

CONTENTS

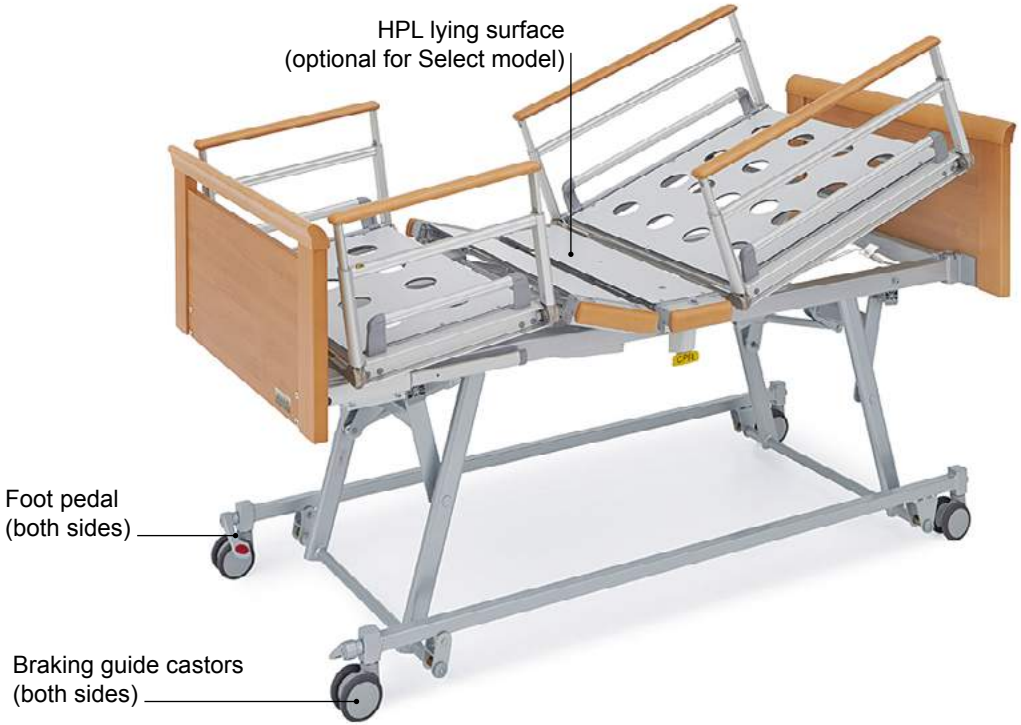
Functional description | Overview of Style model

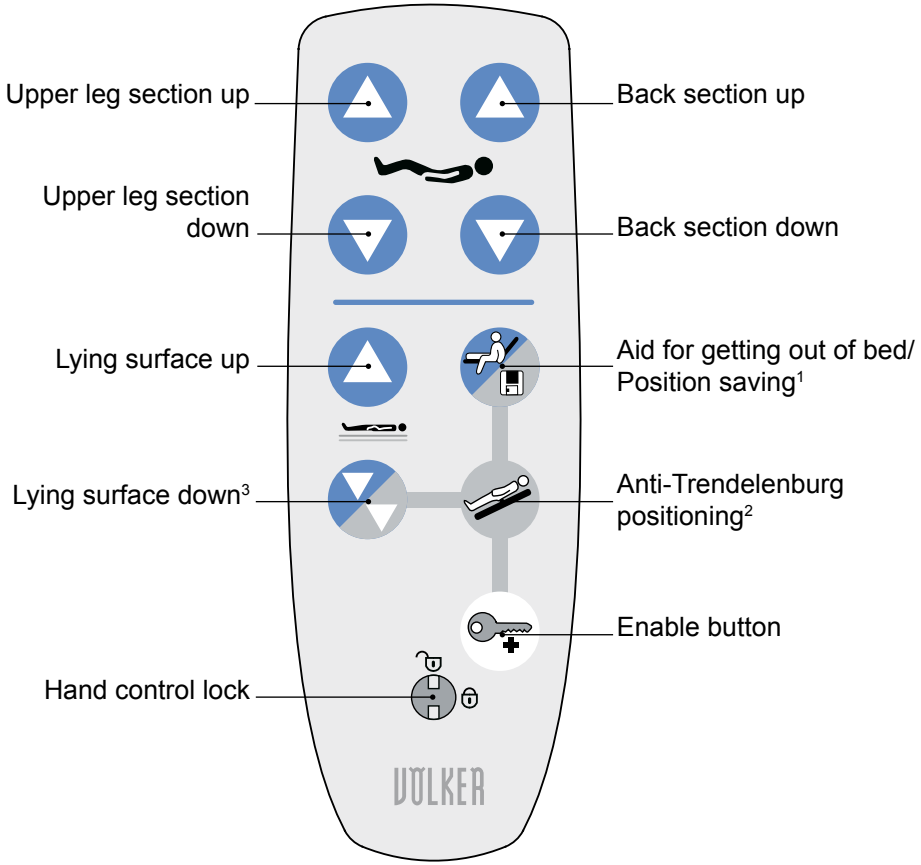
Functional description | Overview of Select model



Functional description | Manoeuvrable version (optional)

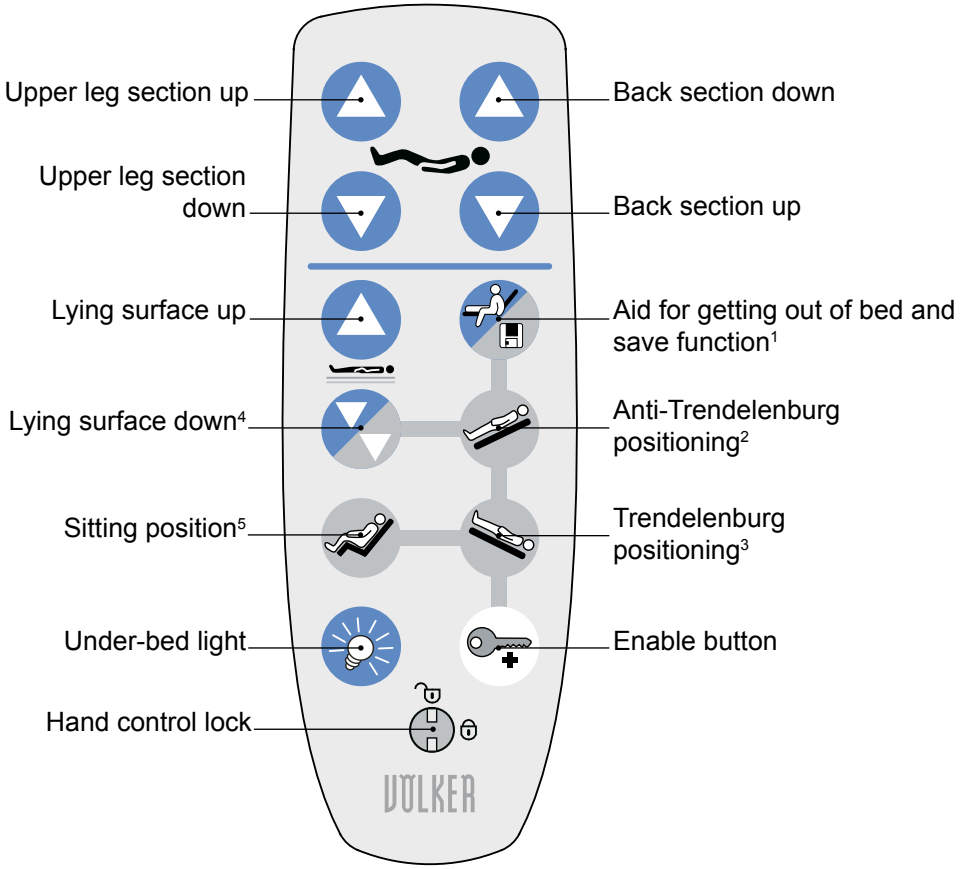
The maneuverable version of both models (option) is fitted with two steering castors at both the head and foot ends.





⚠ **WARNING** When actuating motorised adjustments with the side rails raised, ensure that the occupant/patient does not have any contact with the side rails. Ensure that no parts of his or her body, or those of other people, are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor!

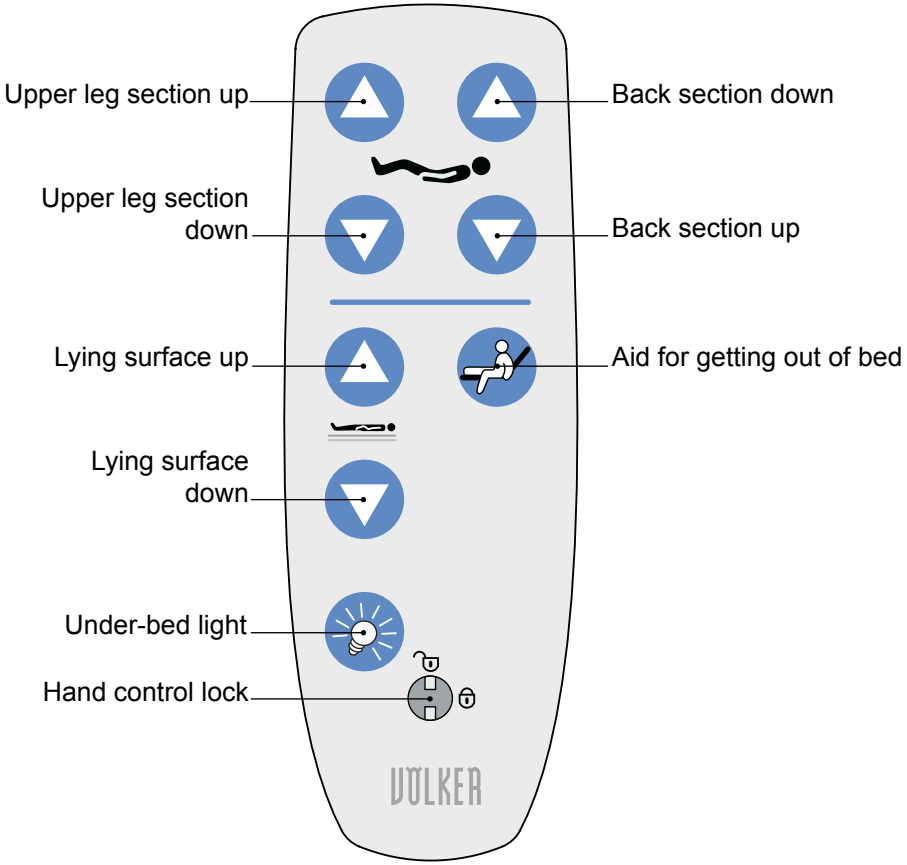
[1, 2, 3] For use of the enable button, please refer to the note on page 59



WARNING When actuating motorised adjustments with the side rails raised, ensure that the occupant/patient does not have any contact with the side rails. Ensure that no parts of his or her body, or those of other people, are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor!

[1, 2, 3, 4, 5] For use of the enable button, please refer to the note on page 59

Functional description | Hand control E2478 (optional)



This hand control is available as an option for both models, only in conjunction with hand control E2486.

⚠ **WARNING** When actuating motorised adjustments with the side rails raised. Ensure that the occupant/patient does not have any contact with the side rails, and that no parts of his or her body or those of other people are sticking through the side rails or are trapped between the lying surface and the lower frame and/or floor.

Mattresses

To offer the greatest degree of flexibility, Völker offers a wide range of easy-to-attach accessories. The beds are equipped as standard with holder devices for accessories, such as drip stands and trapeze bars.

You can find further information regarding the accessories in our current information brochures or on the Internet at www.voelker.de 🕮. Our staff will happily inform you about available accessories for your bed model.

To minimise the risk of injury, only use mattresses with the dimensions and properties described in the following. If you do not use Völker mattresses, please contact a dealer in whom you have confidence.

⚠ **WARNING** Only original Völker accessories may be used!

⚠ **DANGER** If mattresses are used that do not match these specifications, there is a risk of suffocation!

Please read the relevant instructions for use before using the mattresses.

❗ ***NOTE*** Air-filled mattresses are **not** compatible with dynamic bed extension!

Ensure that the mattresses are placed on the bed, aligned with the lying surface and securely attached as specified in the regulations.

The tubes and cables of the air-filled mattress must be positioned in such a way that they are not kinked, squashed or otherwise damaged by the moving parts of the bed.

To reduce the length of the power cable, the mattress system should be connected to the nearest possible socket so that the cable does not lie on the floor.

Before transporting the beds, the cables and tubes of the air-filled mattresses must be secured to the bed so that they are not damaged during transport, e.g. by rolling over.

Cables and tubes of the air-filled mattresses must be checked regularly for damage.

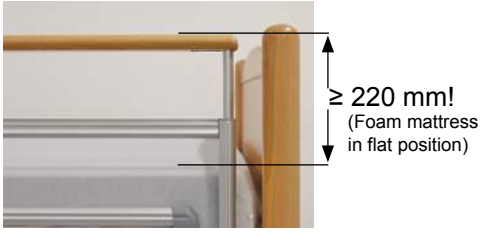
Mattresses with damaged cables and/or tubes may not be used!

Typical representation for Völker mattress NP50 Monodensity.

Model	Order no.	Surface material	Dimensions W x L x H (cm)
Foam mattresses			
Völker NP50	ASS086	Polyurethane	88 x 200 x 12
Völker NP100	ASS087	Polyurethane	88 x 200 x 12
Völker NP150	ASS088	Polyurethane	88 x 200 x 12

Tolerance values: Length = ± 2 cm, width ± 1.5 cm, thickness = ± 1 cm

⚠ **DANGER** The height of the raised side rail above the foam mattress must always be greater than or equal to 220 mm; otherwise the occupant/patient may accidentally fall out of bed. Please note that the height of the mattress has a direct influence on this.



Functional description | Accessories 3/6 Trapeze bar and accessory holders

Holders for the trapeze bar and accessories are located on the inside of the head panel. The trapeze bar and other accessories must slide into the holders until you hear them click into place.

Trapeze bar holders ø 34.2 mm

The trapeze bar is inserted into the holder and latched into place.

WARNING Only use the the trapeze bars listed in the accessories list!

WARNING "Risk of Injury"
Ensure that the trapeze bar is completely slotted into the holder and securely seated. Please note: The safe working load of the trapeze bar is maximum 75 kg.

WARNING "Risk of falling"
The trapeze bar must not be used by the occupant/patient as a means for climbing into the bed. The trapeze bar must never jut out beyond the outer edge of the bed and then be used as an aid to pull oneself up (e.g. when getting out of a wheelchair).

WARNING "Risk of injury"
The trapeze bar may not be used by the patient/occupant without supervision.

Similar pictures

The trapeze bar holders can be provided with an adapter (ø 13 mm) for a drip stand or for other accessories.

The adapter is inserted into one of the trapeze bar holders.

The drip stand or the accessory is fastened from below with a sleeve nut.

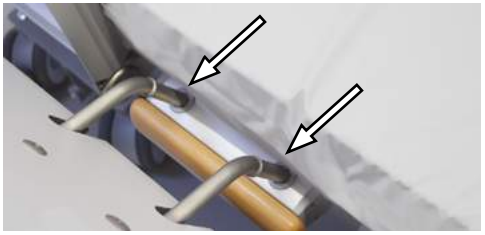
⚠ **WARNING** The drip stand must always be aligned towards the bed, as shown below, and may not point outwards.

Should the bed be moved or adjusted, the infusion tubing or cables must be closely monitored by the care personnel.

Please also note that drainage devices are able to touch the floor when lowering the bed. This also applies for the Anti-Trendelenburg and Trendelenburg position.

The rail infill panels close the middle gap between the divided side rails on Völker beds so as to enable a continuous side rail solution.

⚠ **WARNING** Make sure that the side rails are fully set up and latched into place. When activating the electric lying surface adjustment or side rails, it must be ensured that the patient/occupant has neither contact with the side rails, nor any part of the body protrudes through the side rails. We strongly recommend that you lock the functions of the hand control.



The rail infill panels are inserted in the insertion sleeves of the upper leg section.

Check whether the pendulum locking is completely latched into place by attempting to pull out the rail infill panel upwards. If you succeed in doing this, press the rail infill panel fully down again and adjust the pendulum until the rail infill panel can no longer be pulled out.

To remove the rail infill panel from the holder, move the pendulum into a vertical position and pull the rail infill panel up and out at the same time.

NOTE Please observe the detailed instructions for use for the rail infill panels.

Further accessories can be found on pages 99 and 100.

Use of securing systems

Securing systems such as belts should only be used exactly as specified by the manufacturer.

If securing systems in the form of abdominal belts are used, then it must be ensured that the side rails are completely raised. The gap in the middle of the rails must always be closed using a rail infill panel with the Select model.

Devices for safeguarding patients may not be regarded as a substitute for the requisite supervision of the patient/occupant by the care personnel.

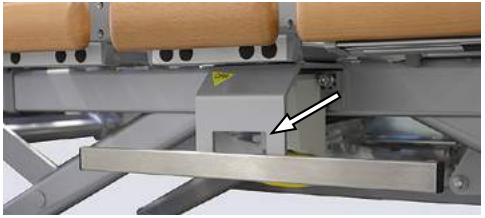
Even if fastened correctly, means of safeguarding patients can become tangled and injure the patient/occupant or even cause the death of the patient/occupant if the latter is agitated and confused.

When using safeguarding devices, the patient/occupant must be supervised corresponding to the statutory regulations and the applicable protocol of the facility. Failure to observe this note can lead to personal injury or material damage.

⚠ **DANGER** When using securing systems and rail infill panels, please note the separate instructions for use pertaining to these accessories.

If the patient is restrained with the help of restraint holders (optional for both models), the lying surfaces must never be adjusted while the patient is restrained and must always be in the lowest position!

The lying surface adjustment functions must be locked when a patient is restrained, and the hand control must be kept out of the reach of the occupant/patient!



Restraint holder

Functional description | Versions and Options 1/3

These instructions for use cover all of the versions and options listed. Precise information on the bed versions supplied can be found in the order specifications for your bed.
If the original bed specification is no longer available, please contact the Völker Customer Services.
Please make a note of the serial number (ID No.) on the type label 🕮 83 before you call.

Wall protector wheels

Vertical wall protector wheels are optionally available for both models.

Linen holder

A pull-out linen holder at the foot of the bed is optionally available for both models.

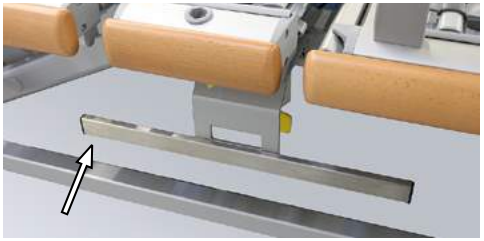
The linen holder should always be pushed in to avoid causing damage when not in use.

⚠ **WARNING** The linen holder may not be used as a seat or step! The safe working load of the linen holder is 20 kg.

Accessories rail

An accessories rail is readily available for both models as an extra option.

❗ ***NOTE*** If the lying surface is lowered below 35 cm, any object that has been attached on the accessories rail must be removed!



Under-bed light

A under-bed light is available as an option for Style model.

MiS® lying surface

Völker MiS® is a support system where the different elements register and promote the occupant‘s/patient‘s own movement.

Thanks to the large number of contact points, the occupant/patient is supported in an anatomically correct manner, which also has a positive influence on sleeping behavior.

HPL lying surface

The four-part HPL lying surface (HPL = high-pressure laminate) consists of moisture-resistant high-pressure laminate.

The four elements are well ventilated via the round cut-outs, are individually removable and fulfil the highest hygienic requirements.

The HPL lying surfaces can be easily removed and can therefore be cleaned quickly and thoroughly. They also facilitate the use of therapy mattresses.

Dynamic bed extension

The Select model can be equipped with a telescopic bed extension.
Extension: approx. 28 cm.

An additional mattress extension (PA2215) must be used when using the dynamic bed extension.

Battery

A battery is available for both bed models as an option.

The battery allows the bed to be operated independent of the power supply for at least two adjustment cycles under full load.

Variants divided sidesails

Select model is available with the following siderail variants:

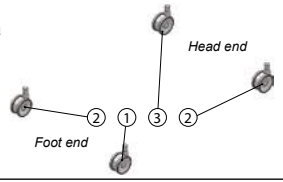
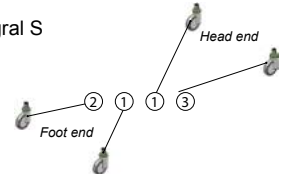
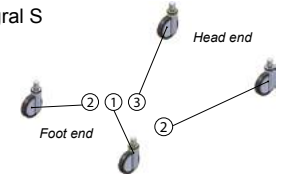
Extendable 34 - 35,5* cm (standard)

Extendable 43,5 - 45* cm (option)

* Dimensions are from the upper edge of the side rail to the lying surface (without mattress). The different extension heights are dependent on the lying surface (HPL or MiS®), see also p. 86 - 87.

Functional description | Versions and Options 3/3

Optional castors

Item no.	Assembly	Components	Castor diameter	Height of bed surface increased to	
BG6081	Linea 	① 1 x R2095 - Directional device - Electrically conductive ② 2 x R2071 - Locking devices ③ 1 x R2070 - Locking device - Electrically conductive	125.0 mm	278.0 - 830.0 mm (Construction height: 130.0 mm)	
BG6291	Integral S 	① 2 x R2125 - Locking device ② 1 x R2126 - Locking device - Electrically conductive ③ 1 x R2127 - Directional device - Electrically conductive	125.0 mm	306.0 - 858.0 mm (Construction height: 158.0 mm)	
BG5264	Integral S 	① 1 x R2064 - Locking device - Electrically conductive ② 2 x R2065 Locking devices ③ 1 x R2107 - Directional device - Electrically conductive	150.0 mm	331.0 - 883.0 mm (Construction height: 183.0 mm)	

Item no.	Assembly	Components	Castor diameter	Construction height	Height of bed surface increased to
R2071	Linea	4 x R2071	125.0 mm	130.0 mm	284.0 - 834.0 mm
R2125	Integral S	4 x R2125	125.0 mm	158.0 mm	312.0 - 862.0 mm
R2065	Integral S	4 x R2065	150.0 mm	183.0 mm	337.0 - 887.0 mm
R2115	Steinco (manoeuvrable, standard model Select)	4 x R2115	100.0 mm	115.8 mm	- - -

These sets of castors each consist of four identical castors!

Activation

The **Activation** section describes the preparation of the bed for use, including the functional check.

CONTENTS

Operating time

The maximum operating time of the electric motor-driven bed functions is specified on the bed (type plate 🕮 83) or in the technical data 🕮 80.

2 min/18 min means that each electromotive adjustment may be operated for a maximum of 2 minutes, after which a pause of 18 minutes is necessary (protection against overheating).

NOTE Should the maximum operating time of 2 minutes be exceeded repeatedly or for longer periods, protection devices on the bed may cause the electromechanical motor system to shut down. The bed must not be manoeuvred using the motors until it has cooled down sufficiently!

Battery (optional)

The optional battery in the bed has a charging capacity that permits the theoretical continuous operation of at least two adjustment cycles.

NOTE If the bed is parked at its location and the power plug is not connected, this will cause the battery to discharge due to the buffering of the electronic components!

Exhaustively discharged batteries can become damaged to such an extent that premature replacement may be required!

Appropriate and correct use of the battery is essential for achieving a long battery life!

In order to guarantee electrical functionality at all times, the bed should be connected to the power plug as often as possible.

When storing the bed for a longer period, the battery must be recharged every 6 months if the storage temperature is approx. 25 ºC.

At higher storage temperatures the time intervals are less frequent.

Safety cut-out device

The bed is equipped with an electrical, self-resetting safety cut-out device that prevents the drives from overloading. In the event of very severe overloading, the bed is automatically switched off.

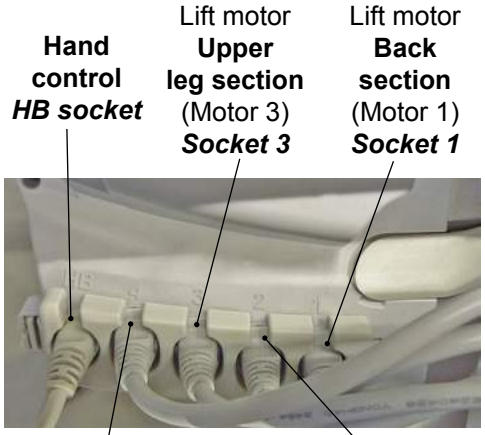
Installation conditions

The bed is only approved for use in dry rooms (technical data sheet). A power supply is required for the operation of the bed in any suitable room.

Please note that the mains power socket for the bed must be freely accessible and must not be obstructed, e.g. by an item of furniture.

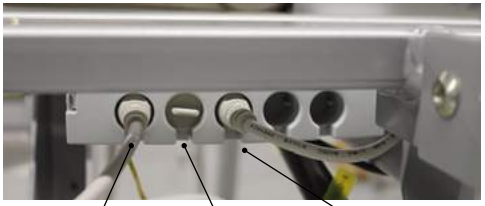
Standard wiring of the control box (without using the under-bed light - standard for Select, and the distribution box)

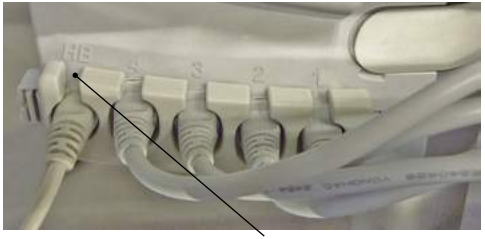
Each time before putting into operation or restarting, the correct order of the motor cabling at the control box must be checked:



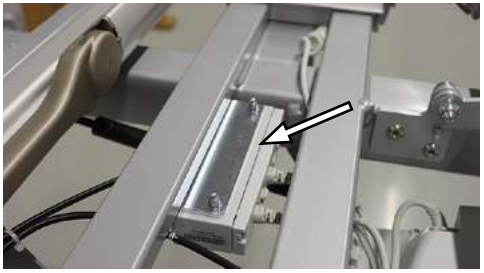
Wiring with under-bed light and distribution box

The distribution box must also be used when using the under-bed light. This is wired as shown below:



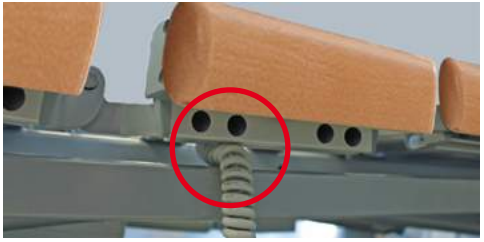


In this case, the HB socket of the control box is occupied by the under-bed light connecting cable.



The distribution box is mounted under the fixed seat section.

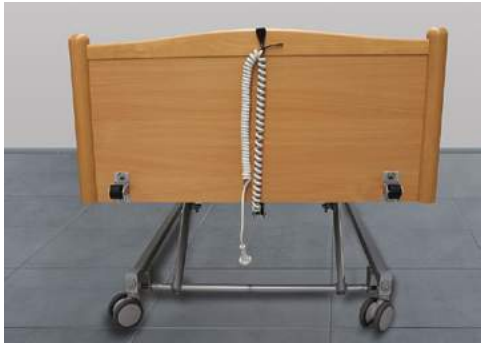
When completely lowering the bed in the optional manoeuvrable version, it must be ensured that the hand control cable is not trapped between the lying surface and the roller carriage.



Transporting the bed

The bed can be moved without auxiliary transportation equipment. For this, move the bed into the movement position (lying surface at a minimum height of 35 cm and release castor fixing 🕮 41).

The power cable must be secured for transporting the bed so that it cannot be rolled over or be damaged in any other way. The cable hook provided is to be used for this reason.



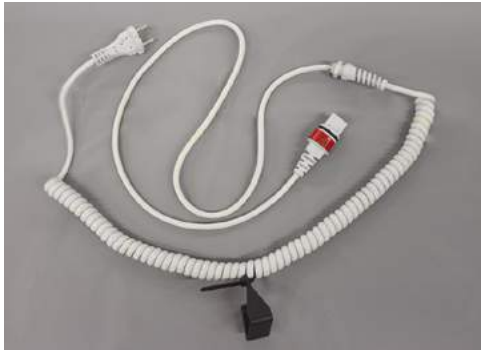
NOTE The standard version of the bed can only be controlled from the foot end.

CAUTION The bed is not designed for transporting people. If a patient is lying in the bed, it must only be pushed within the room. The bed should only be moved over a solid surface. Do not attempt to push the bed over obstacles of over 1 cm in height. The maximum angle of inclination of the floor must not exceed 6°.

NOTE The bed must be transported by at least two people, taking hold of the bed at the head and foot board.

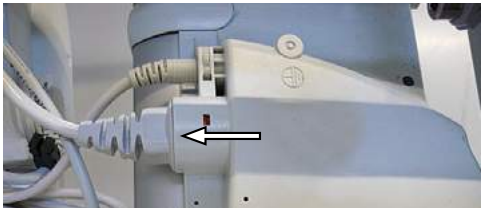
NOTE Please be aware that incorrect handling can lead to the battery no longer charging. Incorrect handling includes actions such as pulling the cable of the power plug to remove it from the socket, clamping the power cable between the lying surface and lying surface frame as well as running over the cable when transporting the bed.

For activating the bed, it is only necessary to connect the power plug to the live power socket. The power cable must be set up so that it is not under tension.



Power cable with cable hook

Strain relief of the power cable at the head panel.

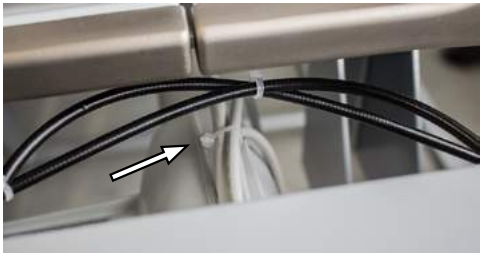


Connection of the power cable to the control box.

In order to avoid damage to the power cable by crushing, the cable must **not** be directed sideways across the head end, e.g. in order to reach a socket that is further away.

⚠ **WARNING** Check the power cable regularly for any damage. If the cable is damaged, the bed must not be used and must be taken out of service immediately!

After replacing the power cable (only by qualified personnel), the cable must be reattached with the cable harness. For this, the cable clips must be fixed to the points shown below.



Position of the cable clip over the lying surface motor at the **head end**.

Position of the cable clip over the lying surface motor at the **foot end**.

Activation | Use of the battery (optional) 1/2

A battery is optionally available for both bed models as an option.

The battery allows the bed to be operated independent of the power supply for at least two adjustment cycles under full load.

If the bed is connected to the power supply, the battery begins to charge automatically.

Upon initial start-up, the bed must be connected to the power supply for approximately 24 hours in order to fully charge the battery.

When storing the bed for a longer period, the battery must be charged regularly (every 3 months). The maximum charge time takes approx. 12 hours.

If an acoustic signal sounds, the battery must be recharged. The battery is deactivated just before total discharge. Once the bed is connected to the power supply, press any button on the hand control to render it fully functional again. The battery is charged when connected to the power supply after every use or when there has been an excessive discharge.

Battery life

The battery must be replaced after four years at the latest, or earlier depending on the intensity of use. Frequent and rapid discharging will reduce the service life of the battery. To achieve optimum service life, the battery should be connected to the power supply as often as possible. The battery must be charged at least every three months to avoid damage due to self-discharge.

NOTE If the bed is stored for a longer period without being connected to the power supply, the battery can discharge. The degree of discharge depends on environmental conditions.

NOTE During the charging cycle, the battery is connected to the mains supply and is therefore supplied with electricity. The current cut-off is deactivated and current flows to the bed.

WARNING If electromagnetic interference occurs with other equipment in the area around the bed, please refrain from using these devices.
When the bed is being transported, it must always be handled carefully and protected from moisture.

NOTE The bed is designed for use in an ambient temperature range from 5 °C to 40 °C, with a relative humidity of 30 % to 85 % and an air pressure of 700 to 1060 hPa.

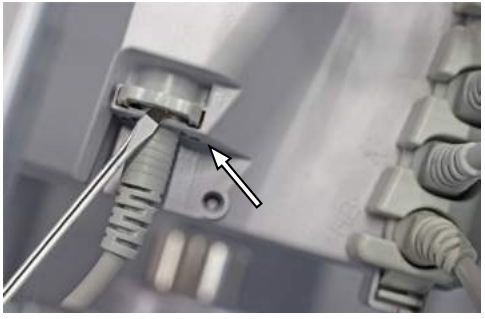
WARNING The battery may only be replaced by personnel trained by Völker.

WARNING If the battery is faulty, degassing can occur. In rare cases, this can cause deformation of the battery housing. If this occurs, the bed must be taken out of service immediately and placed in a sufficiently ventilated room with no spark sources (away from electricity or fire). In this case, please contact Customer Service immediately!

Taking out of service

The bed is taken out of service by disconnecting it from the power supply. The power plug is disconnected from the power socket for this.

Before carrying out repair work, or if the bed is put out of service for a longer time, the optional battery must be disconnected from the control box. To do this, the locking ring is raised and the plug pulled out of the connecting socket for this using a suitable tool (e.g. screwdriver).



WARNING The battery must be disposed of in an environmentally friendly manner at the appropriate facilities. Alternatively, you can return it to Völker.

Visual inspection

Before each new occupancy of the bed, the following checks must be carried out:

1. Ensure the bed exhibits no visible signs of damage.
2. Ensure that the insulation of the electrical lines is in order.
3. Ensure that the motor cables are plugged into corresponding sockets of the control box according to the numbering.
4. Ensure that the next testing date has not been missed (see testing label 🕮 3).
5. The power cable must be checked regularly for damage.

Functional test

A functional test must be carried out before each new occupancy:

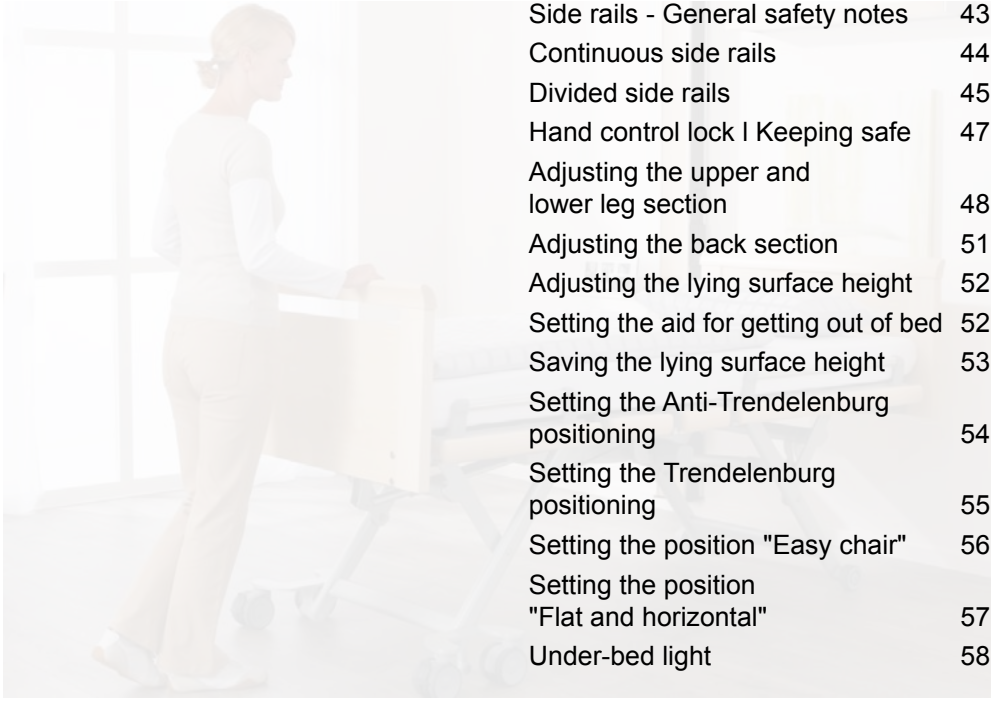
1. All electrical functions must be actuated to their terminal positions once.
2. The function of all side rails must be checked.
3. The secure position of the bed must be checked.

Once a fault-free functional check has been carried out, the bed is ready for use.

⚠ **WARNING** Only undamaged beds that are still within their testing interval periods may be used!

Operation

The **Operation** section provides you with all the information required to operate the Völker bed.



CONTENTS

Operation | Guide castors 1/2 - Roller carriage 4+2

The bed has two castors at the head end and four guide castors at the foot end, two of which can be braked. To move the bed, the castor fixing must be released by operating the foot pedals. When moving the bed, the lying surface must be at a height of at least 35 cm.

⚠ **CAUTION "Risk of accident"**
If the bed is not moved, the guide castors must always be fixed and latched into place since the bed may be required as a support for when the occupant/patient stands up or lies down. If the bed rolls away without the castors being braked, this can lead to a serious fall.

NOTE The bed is not suitable for transporting the occupant/patient.

Once the castors have been applied, check that the bed is actually properly parked.

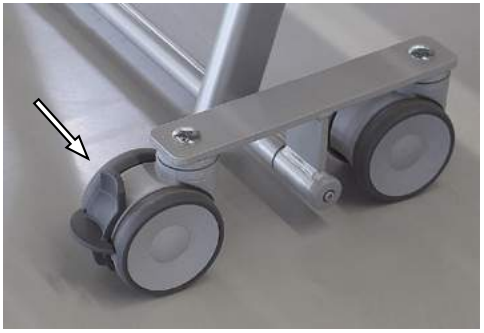
A. Apply guide castors

To apply the castors, tread on the foot pedals of the guide castors at the foot end until they latch into place.

Foot pedal in **braked** position.

B. Release guide castors

Press the foot pedal of the guide castors upwards with your foot to release the fixed guide castors.



Foot pedal in **unbraked** position.

A. Applying the brakes

Move the foot pedal downwards on each side to secure the bed. This brakes both castors on the relevant side at the head and foot end.

Foot pedal of the optional manoeuvrable version in **braked** position.

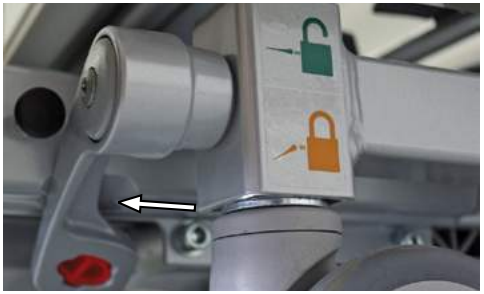
B. Releasing the brakes

Move the foot pedal upwards on each side with your foot in order to release the brakes of both castors on the corresponding side.

Foot pedal of the optional manoeuvrable version in **unbraked** position.

C. Automatic brake function

The manoeuvrable version of the bed has an automatic brake function if the lying surface is moved to the lowest position using the hand control. In this case, both foot pedals of the bed frame are pressed downwards.
To release the brakes, the lying surface must be raised and the brakes released as shown opposite.



Automatic brake function

⚠ **WARNING** In order to extensively prevent the bed from accidentally moving out of place, all castors must be kept clean and dry.

⚠ **WARNING** All people whose duties involve manoeuvring of the side rails must have read and understood the following information:

- During actuation of the back, upper leg or lower leg section adjustment, of the lift or of the side rails, it must always be ensured that the occupant-/patient is not touching the side rails, and that no part of his/her body is sticking out through the side rails.
- If the side rails are used for an individual whose psychological condition necessitates their use, it must be ensured that the hand control is kept completely out of his/her reach or its functions are completely locked. In all cases, care must be taken to ensure that risks are minimised.
- Protective covers (cot side pads) are available as an accessory for the side rails. These provide additional protection against injury from contact with the side rails. The use of these protective covers is recommended for all persons for whom the risk of injury from unavoidable contact with the side rails is very high. Even with the covers, the care personnel or occupant/patient must still take the necessary care when operating the bed.
- All types of side rails must always be either completely raised and securely engaged, or completely lowered to the end stop. Because of the risk of entrapment, they must **never** be left in a position where they are not completely engaged.
- If the side rails are damaged, there is a risk that the patient will fall out of bed.

A. Raising the side rails

To raise the side rails, take hold of the grip recess and lift them first at the head end and then at the foot end until the rail audibly engages.

B. Lowering the side rails

Starting at the foot end, take hold of the recess grip and lift the top rail slightly.

Press the button on the side and lower the side rail first at the foot end by hand. Repeat at the head end.

For safety reasons, the continuous side rails cannot be released when pressure is exerted on them from above.

All side rails down:
The bed is accessible without restriction from both sides.

All side rails up:
The occupant/patient enjoys maximum protection from rolling out of bed.

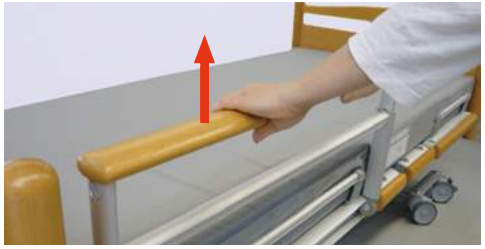
To prevent the patient from falling out of bed, the continuous side rails must always be raised at the head end first and always lowered again first at the foot end!

⚠ **WARNING** If other devices are operated on the bed, which are provided with cables, air hoses or similar, make sure that these lines are routed so that they cannot become jammed in the moving parts of the bed or be damaged.

Operation | Divided side rails - Select model 1/2

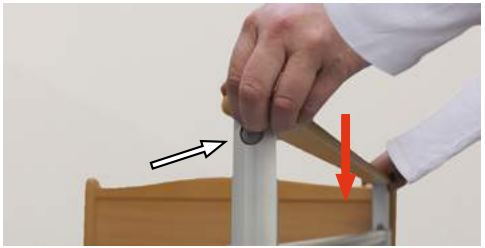
A. Setting up the side rails

1. Pull the side rail out horizontally until the end stop, and raise it upwards.



2. To adjust the height of the side rail, pull the telescopic section upwards until it reaches its end stop.

B. Lowering the side rails

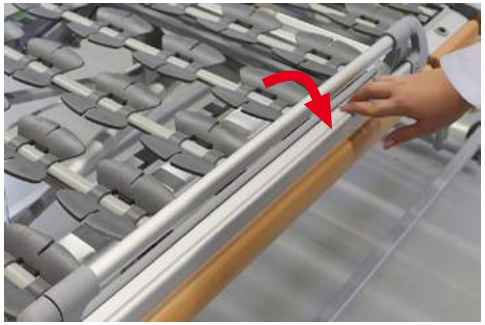


1. Press both buttons on the outside of the frame to bring the height-adjustable side rail to its lowest position.

2. Press the "Drücken / Press" trigger at the lower edge of the side rail and tilt it sideways into a horizontal position, so that it lies parallel to the floor.

3. Push the side rail completely underneath the lying surface.

The side rails can be used individually or together as required to protect the occupant/patient. Raising all four side rails offers the occupant/patient maximum protection.



When using the raised side rails 43.5 - 45 cm, the mattress holder must be folded in or out.

WARNING The side rails should always be gripped with two hands at the ends of the element in question and guided upwards or downwards.

CAUTION Any weight on side rail elements that are pulled out horizontally must not exceed 15 kg!

NOTE Due to their exceptional stability, the side rail elements can also be used as a surface for storing bed linen (max. 15 kg) or as an additional supporting surface for care-related positions, such as Bobath treatments, or for the delivery of physiotherapy-related treatments.

Operation | Hand control | Hand control lock | Keeping safe

Activating the hand control lock disables all of the functions of the hand control.

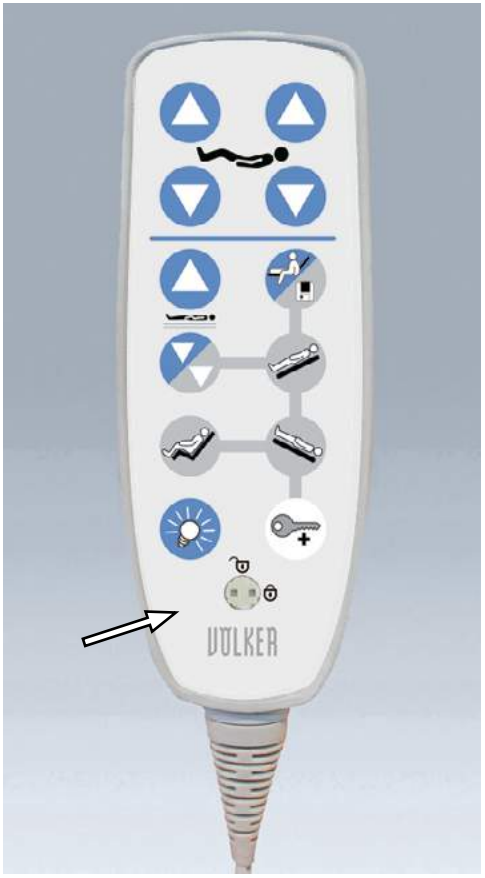
If the bed functions cannot be actuated, check whether the hand control lock is activated.

The lock switch is located on the front of the hand controls E2476, E2478 and E2486.
It is unlocked (lock open) or locked (locked closed) using a key.

The lock switch must only be operated by the care personnel.

Lock switch socket key

Lock switch



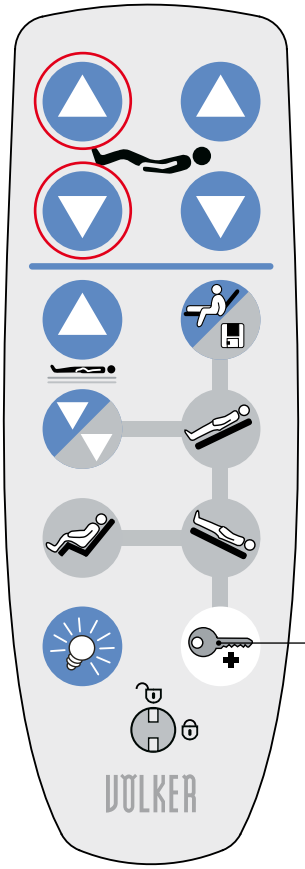
The hand controls have a hook on the rear and can be hung on the side rails, for example.

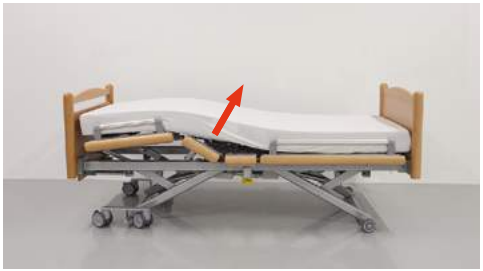
The upper leg section can be adjusted using the hand control.

If necessary, disable the hand control lock via the lock switch 📖 47.

The upper leg section can be raised up to an angle of 45°.

⚠ **WARNING** When the upper or lower leg section is being raised with the side rails up, it must be ensured that none of the occupant's/patient's or any other person's body parts are sticking out through the assembled side rails or are on top of them!



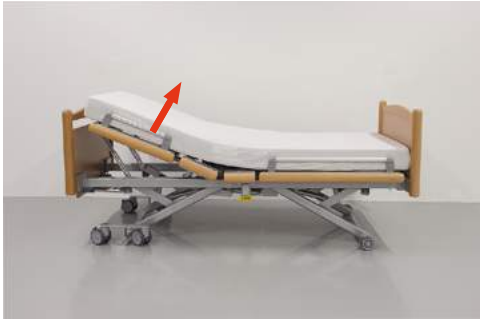


Upper leg section up

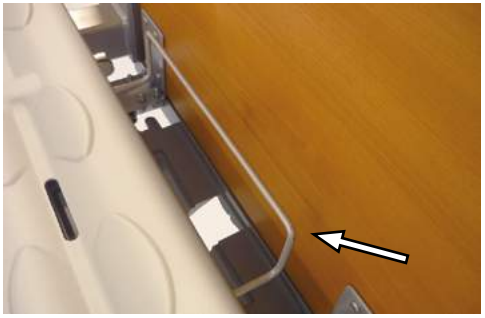
⚠ **WARNING "Risk of entrapment"** When the position of the upper leg section is being adjusted, there is a risk of entrapment between the raised side rail and the foot board.

The lower leg section can be moved manually to any position of maximum 45° by pulling on the mattress holder. The Style model features a handle that allows the lower leg section to be moved up and down.

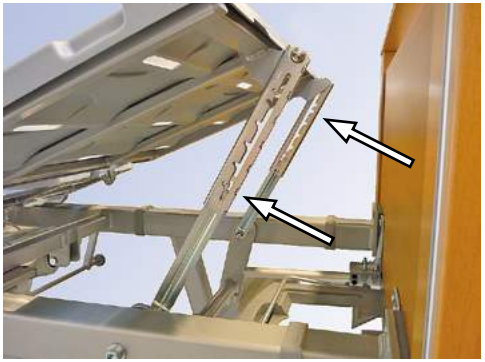
To lower the lower leg section, the mattress holder or handle is pulled and the section lifted to the end stop and then lowered. The locking mechanism is disengaged automatically.



Lower leg section up



Handle on the lower leg section of the Style model.



Mechanism for adjusting the height of the upper leg section.

⚠ **WARNING** When the upper or lower leg section is being raised with the side rails up, it must be ensured that none of the occupant's/patient's or any other person's body parts are sticking out through the assembled side rails or are on top of them!

The back section can be adjusted with the hand control.

If necessary, disable the hand control lock via the lock switch 🕮 47.

The back section of the lying surface can be raised up to an angle of 70°.

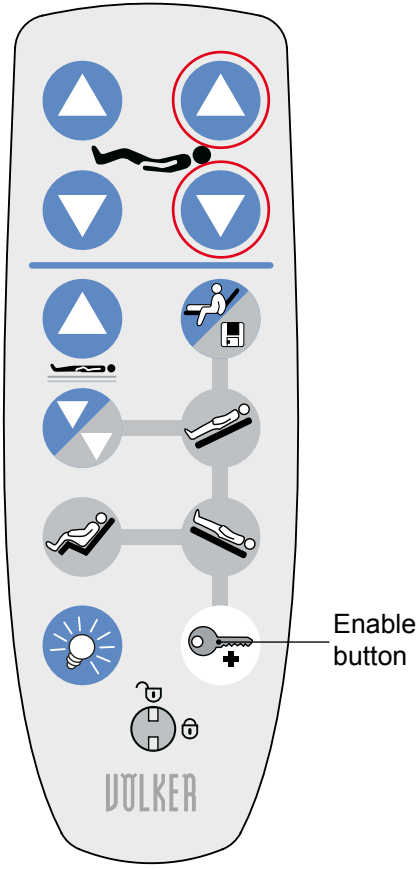
The back section and upper leg section can be adjusted simultaneously by pressing both switches at the same time:

- Back section up + Upper leg section up

  or
- Back section down + Upper leg section down

If one of the two buttons is released during this adjustment process, the movement of the other lying surface is continued.

Operation of the switches "crosswise" is not possible (e.g. back section up + upper leg section down).



Back section up

⚠ **WARNING** When the back section is being raised with the side rails up, it must be ensured that none of the occupant's/patient's or any other person's body parts are sticking out through the side rails or are on top of them!

⚠ **WARNING "Risk of entrapment"** When adjusting the position of the back section, do not touch the frame in the area of the back section!

The lying surface height can be adjusted using the hand control.

If necessary, disable the hand control lock via the lock switch 📖 47.

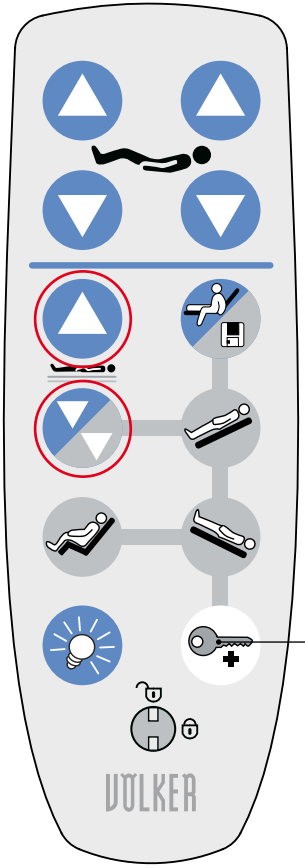
The lying surface height for both models with MiS® lying surfaces can be adjusted between approx. 20 cm and approx. 80 cm.

The lying surface can only be moved down by the occupant/patient to a height of approx. 35 cm.

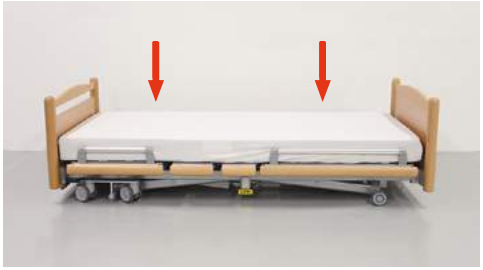
The button sequence below must be followed to move the lying surface below 35 cm:

- Press the enable button* briefly and release again
- After this (within one second), press the "Lying surface" button until the desired position is reached.

The operation of the enable button is only reserved for care personnel.



Lying surface up



Lying surface down

⚠ **DANGER** Before lowering or raising the lying surface, it must be ensured that no people, limbs, pets, bed linen or other objects are trapped between the lying surface and the lower frame or floor.

* For use if the enable button, please refer to page 📖 59

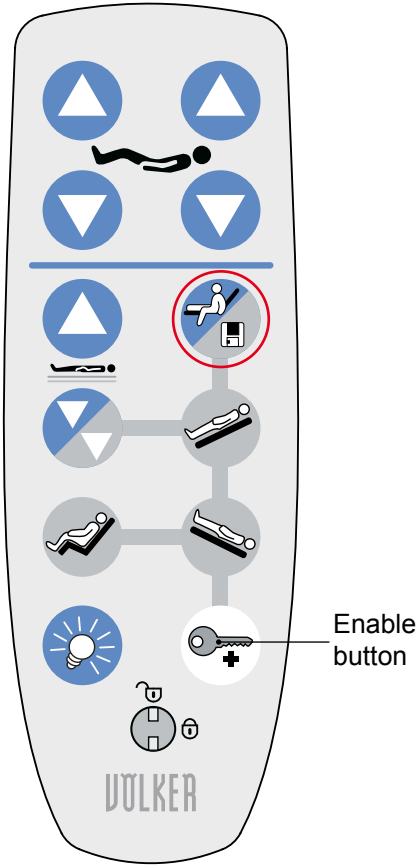
The "Aid for getting out of bed" button can be used to move the bed into a position with the press of a button, which enables the occupant/patient to leave the bed from the side.

If necessary, disable the hand control lock via the lock switch 📖 47 .

If no height position is saved, the lying surface moves to a height of approx. 35 cm.

It is advisable to save a height position which enables the occupant/patient to leave the bed safely and comfortably from the side.

When getting onto and off the bed, it must be ensured that it is stable (fix guide castors)!



Aid for getting out of bed

Operation | Hand control | Saving the lying surface height position

This function is primarily designed to save a height position which enables the occupant/patient to leave the bed safely and comfortably from the side.

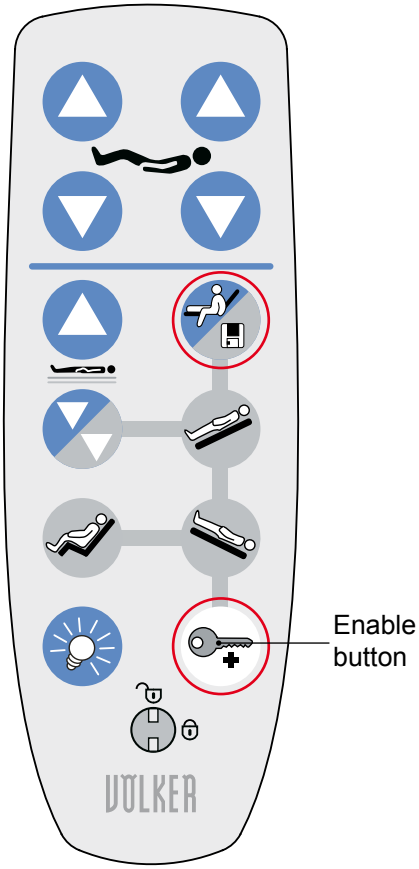
If necessary, disable the hand control lock via the lock switch 🕮 47 .

The following button sequence is necessary to save the lying surface position.

- Press the enable button* briefly and release again
- After this (within two seconds), press the "Aid for getting out of bed/Save function" button until a signal confirms it has been saved.

The operation of the enable button is only reserved for care personnel.

If the lying surface is moved, it will stop briefly in the saved position (approx. 0.5 seconds) and then continue moving as long as the "Lying surface height adjustment" button is pressed.



The position saving is retained until a new saving is made.

Height memorisation range
35 to 55 cm* or
40 to 60 cm*

* dependent on configuration chosen

*For use of the enable button, please refer to the note on page 🕮 59

Operation | Hand control | Setting the Anti-Trendelenburg position[1]

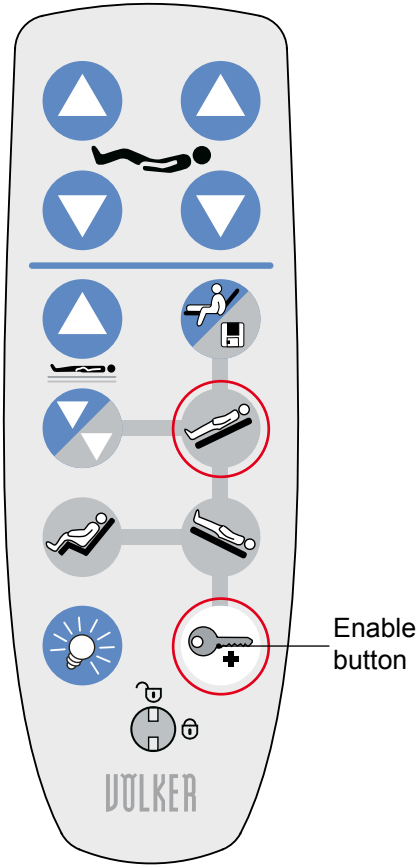
The Anti-Trendelenburg position can be adjusted up to an angle of 14°.

If necessary, disable the hand control lock via the lock switch 🕮 47.

The button sequence below must be followed to set the Anti-Trendelenburg position:

- Press the enable button* briefly and release again
- After this (within one second), press the "Anti-Trendelenburg position" button until the desired position is reached.

The operation of the enable button is only reserved for care personnel.



Anti-Trendelenburg position

*For use of the enable button, please refer to the note on page 🕮 59

[1] Head end raised

Operation | Hand control | Setting the Trendelenburg position[1]

⚠ **WARNING** Since the Trendelenburg positioning depends on clinical indications, it must only be used with appropriate clinical approval.

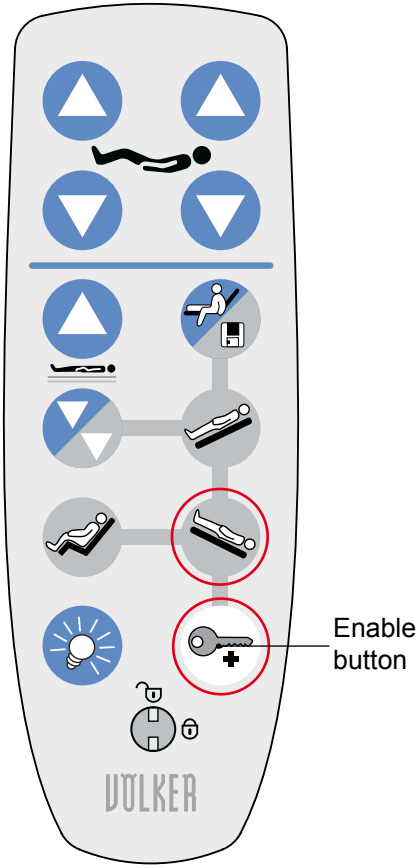
The Trendelenburg position can be adjusted up to an angle of 14°.

If necessary, disable the hand control lock via the lock switch 🕮 47.

The following button sequence must be followed to set the Trendelenburg position:

- Press the enable button* briefly and release again
- After this (within one second), press the "Trendelenburg position" button until the desired position is reached.

The operation of the enable button is only reserved for care personnel.



Trendelenburg position

*For use of the enable button, please refer to the note on page 🕮 59

[1] Head end lowered

Operation | Hand control | Setting the position "Easy chair"

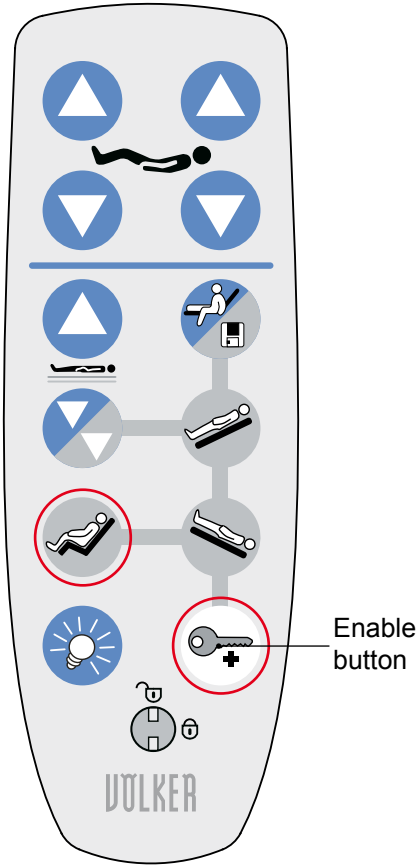
Occupants/patients who are unable to leave the bed have a major advantage through the sitting position. This ensures an active sitting posture in the bed.

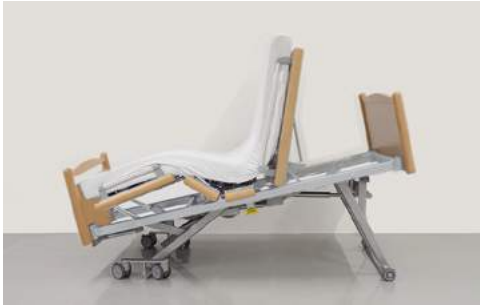
If necessary, disable the hand control lock via the lock switch 📖 47.

The following button sequence must be followed to set the sitting position:

- Press the enable button* briefly and release again
- After this (within one second), press the "Easy chair" button until the desired position is reached.

The operation of the enable button is only reserved for care personnel.





Easy chair

*For use of the enable button, please refer to the note on page 📖 59

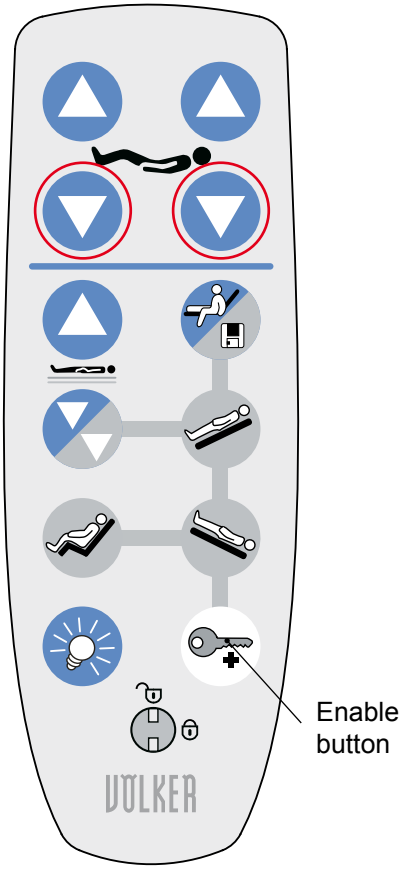
Operation | Hand control | Setting the position "Flat and horizontal"

The "Flat and horizontal" position is reached by simultaneously pressing the buttons "Upper leg section down" and "Back section down".

If necessary, disable the hand control lock via the lock switch 📖 47.

If both buttons are pressed at the same time, the back section and upper leg section move into the lowest position. After this, the lying surface is moved into the horizontal position.

If one of the two buttons is released during the adjustment process, the movement still pressed is continued.



In the event that the bed completely ceases to function, the hand control can be restored to factory settings with this button combination.

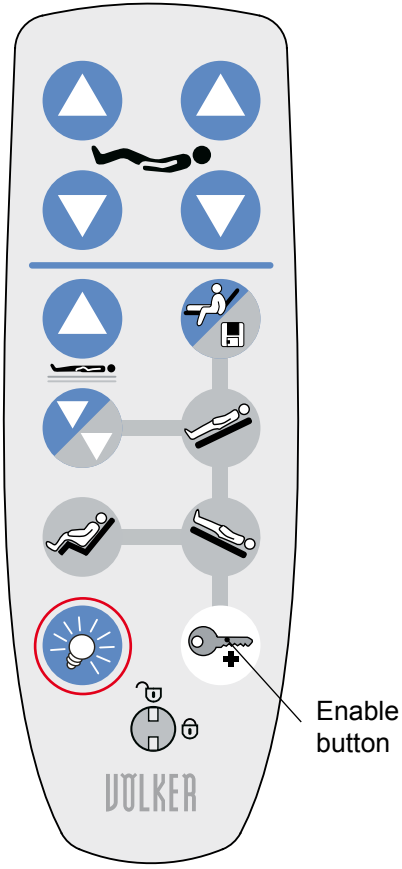
To do this, the buttons "Upper leg section down" and "Back section down" must be pressed simultaneously for approximately ten seconds until an acoustic signal confirms the reset.

Operation | Hand control | Under-bed light

The "Under-bed light" button can be used to switch the lighting below the bed (optional with the Style model) on and off.

If necessary, disable the hand control lock via the lock switch 📖 47.

The under-bed light is mounted in the center below the lying surface.

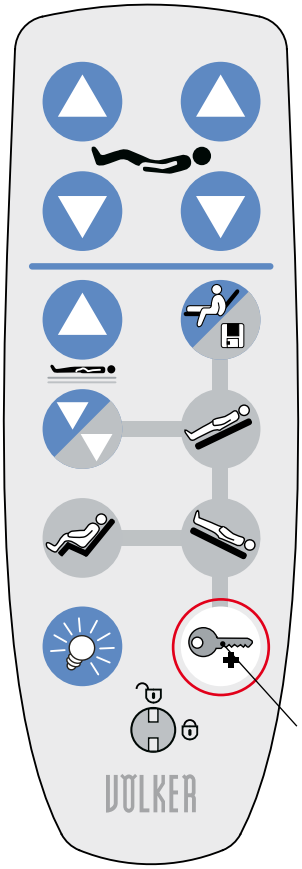


The operation of the enable button is only reserved for care personnel!

The enable button serves to enable the positions or functions:

- Height position saving
- Lying surface height below 35 cm
- Anti-Trendelenburg position
- Trendelenburg position
- Sitting position

If necessary, disable the hand control lock via the lock switch 📖 47.



The following button sequence must be followed to enable the positions required by the enable button:

- Press the enable button* briefly and release again
- After this (within **one** second), press the corresponding (grey) function button until the relevant position is reached.

The following button sequence is necessary to save the **lying surface position**:

- Press the enable button briefly and release again
- After this (within **two** seconds), press the "Save function" button until an acoutic signal confirms the saving.

Operation | Rapid lowering of the back section / CPR function

Both models of the bed have a mechanical rapid lowering of the back section for reanimation as standard.

Lever for rapid lowering of the back section for reanimation, both sides below the seat area.

Pull the lever forwards for rapid lowering of the back section. The back section now moves quickly downwards.

The motor of the backrest is automatically reactivated if the CPR handle is released.

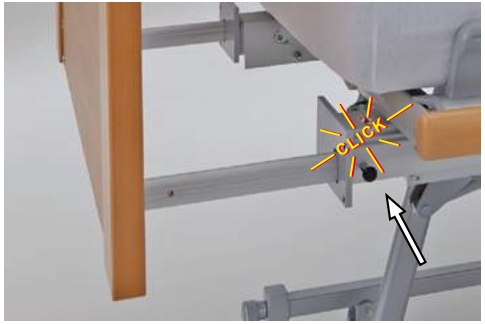
⚠ **WARNING** The CPR function (**C**ardio**p**ulmonary **R**esuscitation function) may only be executed in an **emergency** and only by trained specialist personnel!

⚠ **WARNING** The CPR function may **not** be used instead of the hand control for lowering the back section!

Improper use of the CPR function can cause damage to the bed and/or the motor of the back section!

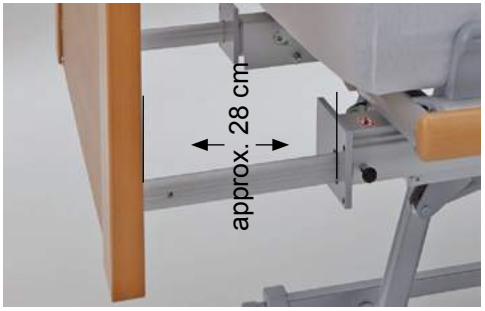
Operation | Dynamic bed extension (optional Select model)

The Select model can be equipped with a telescopic bed extension.
Extension: approx. 28 cm.



To unlock the bed extension, pull the two pins located on the side outwards and turn the knobs by about 45°. The bed extension can now be pulled out. To lock, the knobs must be turned back again until the pins latch in automatically and **audibly**.

The pulled-in bed extension must also be latched into place!



Bed extension moved out

An additional mattress extension (PMA2215) must be used when using the dynamic bed extension.

NOTE When using a dynamic bed extension, only mattresses with a height of 12 cm may be used.

WARNING The bed extension may not be used as a seat!
The safe working load is 50 kg.

Cleaning and disinfection

This section contains details on the **cleaning and disinfection** of the bed.

CONTENTS

Cleaning and disinfection 1/2

In order to maintain the functionality of the bed, the bed should be cleaned, disinfected and tested

- at regular intervals
- as required
- after each occupant/patient change
- according to the guidelines of the relevant hygiene plan

so that it can be reused immediately without risk.
Incorrect cleaning/disinfection of the bed can cause danger.

The detergents used must exhibit one of the following constituents:

- Quaternary ammonium compounds
- Hydrogen peroxide
- Peroxides

Please observe the data of the detergent manufacturer. Failure to observe this note can lead to personal injury or material damage.

WARNING
"Risk of electric shock / fire and functional failure"
The bed must always be disconnected from the power supply before cleaning and disinfection.

Cleaning

Depending on the degree of soiling, we recommend cleaning the bed with a damp cloth or similar. A soft brush can also be used for stubborn dirt or stains. Do not get the bed too wet whilst cleaning.

Wipe disinfection

They must be applied at the dilution ratio specified by the relevant detergent manufacturer's instructions for use.

NOTE Solvents are not permitted.

- Grinding agents, scouring pads or other dulling substances must **not** be used.
- Chlorine, formaldehyde, phenol-based products and other solvents (Toluene, xylene or acetone) are **not** permitted.

The following instructions must be observed when using cleaning and disinfecting agents:

- The working solutions should generally be freshly prepared.
- The concentrations used should be neither higher nor lower than those indicated. The so-called "shot" method should not be used under any circumstances. Under no circumstances should someone using a disinfectant follow their own judgement to add a cleaning agent such as soap or washing-active substances (leads to soap failure).
- There is a risk of fire or explosion from alcoholic spray disinfectants when these are used over large areas.
- Detergents must not contain any corrosive or irritant components.

Cleaning and disinfection 2/2

- They must not contain any substances that change the surface structure or gripping properties of the materials.
- Lubricants must not be affected.
- The pH value of the water must be no higher or lower than 6 - 8.
- Water should not exceed a total water hardness of 0.9 mmol/L (corresponding to 5°dH).

The specifications we have issued, do not absolve the user of the obligation to carry out his or her own checks and tests, since the ratios (e.g. water hardness) can vary depending on the geographical location. It is therefore impossible to offer legally binding assurance of certain properties.

The plugs of the cables and the sockets of the control box are only protected against splash water when plugged together and with the cover (securing clamp) provided.

- Prevent water and detergents from penetrating into connections that are not used.
- Labels and markings may not be cleaned with a brush or with high pressure.
- Dry the bed with special care and test it before reuse.
- Stubborn dirt or stains should be soaked before cleaning (please check beforehand).

Spray lances and automatic washing systems

WARNING
Cleaning and disinfection using spray lances from high-pressure cleaning equipment and in automatic bed washing systems is **not** permissible.

If unsuitable washing and disinfecting agents are used, if the mixing ratio is incorrect or if the beds are not adequately cared for, damage can occur to the surface coating for which Völker is not liable.

Cleaning the hand controls

To avoid so-called "cross-contamination" between the occupant/patient and care personnel, the hand controls must be cleaned daily!

Maintenance

The **Maintenance** section contains information on how to carry out maintenance work.

CONTENTS

Personnel qualifications

Anyone responsible for carrying out maintenance and servicing must at least have read the safety notes for the respective bed model and be qualified in accordance with the national regulations.

To ensure that the beds work properly, the user instructions must always be accessible to the service personnel.

Safety instructions

The following requirements must be strictly observed during maintenance and technical checks:

- The room's electrical installations must satisfy the current technical requirements and the bed must be used correctly.
- The beds are not protected against explosion and must therefore only be maintained in an environment free from flammable substances and materials.

⚠ **WARNING** Always pull out the power plug before carrying out repair work.

⚠ **WARNING** Maintenance and repair work may only be carried out after disinfection of the bed.

The bed requires little maintenance. All movable parts for the height adjustment mechanism, the lying surface motor systems and the side rails are provided with long-lasting lubricant at the factory. It is recommended that **the bed is subjected to regular, or at least once a year, technical checks** 🕮 68 **(including visual inspection and functional check) as described in the checklist** 🕮 97 and any damage uncovered as a result, such as signs of wear and tear, loose screws or breaks/fractures, be eliminated immediately.

After every lengthy period of non-use, technical checks 🕮 68 must be carried out.

Interval	Works to be performed
Annually	Technical checks 🕮 68
After lengthy periods of non-use	Visual inspection and functional check 🕮 68
If necessary	Lubrication of mechanical parts Replacement of the optional battery if defective or upon reaching the end of its service life (3 years) Replacement of wearing parts if defective • Wings of the MiS® lying surface (if fitted) • Spring elements of the MiS® lying surface (if fitted)

Technical checks

The **Technical checks** section contains all the information needed to carry out the technical check in accordance with MPBetreibV, BGVA3, UVV on hospital and care beds and measurement as per DIN EN 62353. Other (e.g. country-specific) specifications have not been included here. This does not absolve the operator from the obligation to observe any such specifications.

CONTENTS

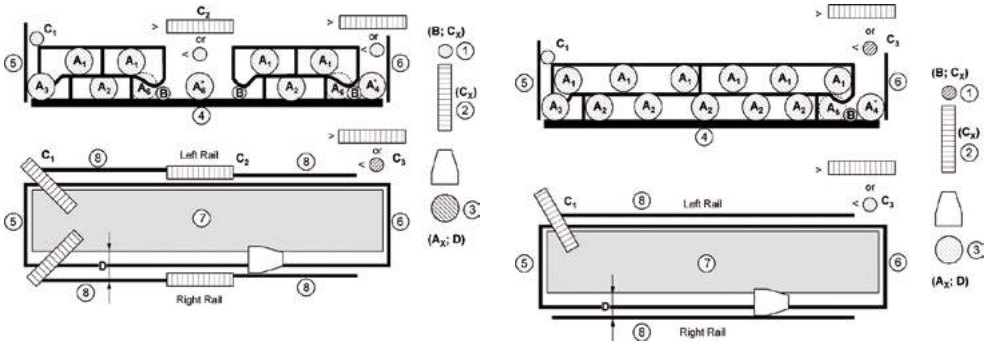
Technical checks 1/3

1. Visual inspection

Check the frame parts for plastic deformations and/or wear and tear. These include the lower frame, the lifting mechanism, all parts of the lying surface (back, seat, upper leg and lower leg sections, wings and spring elements, if fitted), trapeze bar, trapeze bar holder and castors.

2. Functional check of the side rails

The side rails must be checked in accordance with DIN EN 60601-2-52.



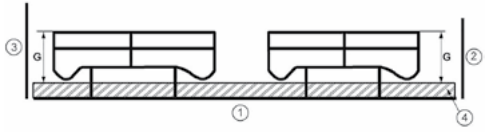
Letter	Description	Dimension
A_x	The distance between elements within the scope of the SIDE RAIL in its raised/engaged position or of the area formed by the SIDE RAILS and the fixed parts of the BED or ACCESSORIES.	< 120 mm
B	Lower edge of the side rail to the upper edge of the lying surface	< 60 mm
C_1	Distance between HEAD BOARD and SIDE RAIL	< 60 mm
$C_{2,3}$	Distance between divided SIDE RAILS and distance between SIDE RAIL and FOOT BOARD	< 60 mm or > 318 mm
D	Area between SIDE RAIL and MATTRESS	120 mm cone may sink max. 60 mm under the mattress surface without pressure
G	Height of the upper edges of the SIDE RAILS above the mattress without compression over at least 1/2 of the length of the LYING SURFACE	≥ 220 mm

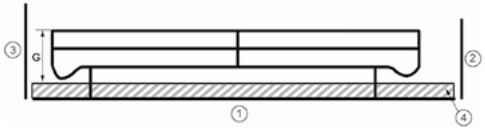
Technical checks 2/3

Inspection in accordance with DIN EN 60601-2-52

Check that the locking mechanism for the side rails is working correctly and that there are no visible deformations or signs of wear on the side rails.

Check that the prescribed distances are maintained, even when the side rails are placed under load.





Technical checks 3/3

3. Functional check of the brakes

Check the function of the brakes.

4. Functional check of the motors

Travel through the full adjustment range of each motor. Look out for any unusual noises, watching the speed, ease of running etc., and check that the selected function travels in the correct direction. In particular, ensure that the motor switches off automatically when it reaches its terminal position*.

5. Power connection cable

Check:

- the power connection cable, including cable guides,
- the strain relief, including the kink protection sleeve,
- the power connection plug

for damage.

6. Cabling

Check the cable guides and that the plug connectors are correctly seated and do not exhibit any damage.

Check the cables for damage.

7. Housing

Check all housings for damage. All screws must be firmly tightened and seals must not exhibit any visible damage.

8. Mechanical check

Check the function of the Rastomats by manually moving the lower leg section to the individual positions.

9. Trapeze bar grab handle

Check whether the plastic and holding frame of the trapeze bar grab handle aid exhibit any damage and that the fixing rods on the trapeze bar are intact. The handle of the trapeze bar and fastening strap must be replaced in the following cycle:

- every 5 years: Trapeze bar grab handle and trapeze bar grab handle with roll function in elderly care service

10. Further accessories

Further accessories must always be checked in accordance with the manufacturer's instructions.

* Please note that the terminal position can vary from bed model to bed model. Please consult the technical specifications for this or, if in doubt, contact our service department.

Troubleshooting

The **Troubleshooting** section contains a table of faults for users, together with information on the service points.

CONTENTS

Troubleshooting | Table of faults 1/3

The table below contains information on possible problems that users can resolve themselves.

Anyone responsible for carrying out maintenance and servicing must at least have read the safety notes for the respective bed model and be qualified in accordance with the national regulations.
To ensure that the beds work properly, the user instructions must always be accessible to the service personnel.

NOTE Before carrying out any troubleshooting, check that the bed is connected to the power supply (the power plug is in a live socket).

WARNING Make sure that the bed is disconnected from the power supply again before beginning repair work.

Troubleshooting | Table of faults 2/3

Fault	Possible cause	Troubleshooting
Adjustment of the lying surface not functioning	(1) Hand control locked (2) The power plug is not plugged in or there is no power to the socket (3) Battery not functioning (4) Hand control not functioning	(1) Unlock hand control (2) Connect the plug or check the socket (3) Check/Replace battery Check/Replace power cable (4) Unlock hand control 📖 47 or insert plug or replace hand control
The bed cannot be adjusted in height	(1) Hand control not functioning (2) The power plug is not plugged in or there is no power to the socket (3) Battery not functioning (4) Hand control locked	(1) Unlock hand control 📖 47 or insert plug or replace hand control (2) Connect the plug or check the socket (3) Check/Replace battery Check/Replace power cable (4) Unlock hand control

Continued on next page ⇨

Troubleshooting | Table of faults 3/3

Fault	Possible cause	Troubleshooting
Adjustment of the back section not functioning	(1) CPR lever jammed	(1) Check whether the CPR lever is jammed and correct/replace if necessary
Adjustment of the mechanically adjustable lower leg section not functioning	(1) Rastomat defective	(1) Replace Rastomat
Bed not functioning	(2) Bed is locked electronically	(2) Unlock hand control
Under-bed light (optional) not functioning	(3) Hand control not connected to the bed or lamp defective	(3) Connect hand control to the bed or replace lamp
Bed not functioning after 2 minutes adjustment	(4) Adjustment cycle of 2 minutes exceeded	(4) Wait for cooling cycle (18 minutes)

Troubleshooting | Service points

If necessary, please seek assistance from the relevant contact at your nearest sales organisation. You will immediately receive all of the information you need about our comprehensive services.

www.voelker.de

Appendix

The **Appendix** section contains the technical specifications and classifications, details on the service life and disposal of the equipment and links to the manufacturers' declarations and forms found in the appendix.

CONTENTS

Konformitätserklärung
Anhang VII
EU-Richtlinie 93/42/EWG

Der Unterzeichnende
Völker GmbH
Wullener Feld 79
58454 Witten

mit einer Fertigungsstätte unter der Adresse:
Völker GmbH
Ahornstraße 4
09661 Hainichen

bestätigt, dass die nachfolgend bezeichneten Produkte in der von uns in Verkehr gebrachten Ausführung die grundlegenden Anforderungen des Anhangs I der EU-Richtlinie 93/42/EWG erfüllen. Es wurden die folgenden Normen angewendet :

DIN EN 60601-1:1990+A1:1993+A2:1995,
DIN EN 60601-1-2:2007-12,
DIN EN 60601-2-52:2010-12
(Anwendungen der relevanten Teile).

Declaration of conformity
Appendix VII
EU Directive 93/42/EEC

The signatory
Völker GmbH
Wullener Feld 79
58454 Witten/Germany

with a manufacturing side at:
Völker GmbH
Ahornstraße 4
09661 Hainichen/Germany

confirms that the products described below and in the form distributed by ourselves meet the basic requirements of Appendix I of EU Directive 93/42/EEC. The following standards are applied :

DIN EN 60601-1:1990+A1:1993+A2:1995,
DIN EN 60601-1-2:2007-12,
DIN EN 60601-2-52: 2010-12 (applicable parts only).

Déclaration de conformité
Annexe VII
Directive EU 93/42/CEE

La soussignée
Völker GmbH
Wullener Feld 79
58454 Witten/Allemagne

avec un site de production à:
Völker GmbH
Ahornstraße 4
09661 Hainichen/Allemagne

confirme que les produits spécifiés ci-dessous sont conformes, dans le modèle mis en circulation, aux exigences fondamentales de L'annexe I. de la directive européenne 93/42/CEE. Les standards suivants sont appliqués :

DIN EN 60601-1:1990+A1:1993+A2:1995,
DIN EN 60601-1-2:2007-12,
DIN EN 60601-2-52 : 2010-12
(en partie applicable).

Appendix | Symbols used 1/2

Warning symbols
Information marked with this symbol must always be read and strictly observed!

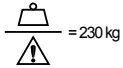
NOTE warns of potential damage to objects or property.

Observe the information in the instructions for use!

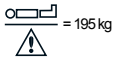
Manufacturer

REF — Model designation

SN — Serial number



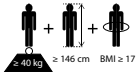
Safe working load 230 kg



Maximum permissible weight of the occupant/ patient 195 kg

Temperature range +5°C to +40°C

Air humidity 30% to 85%



Occupant/patients weights and measures

Air pressure 700 hPa to 1060 hPa

Direct current
Alternating current

Protection class II device, insulated

Type B application part as per DIN EN 60601-1

CE — The product satisfies the fundamental requirements of Appendix I of EU Directive 93/42/EWG.

The product must be disposed of in accordance with EU Directive 2002/96 EC pertaining to old electrical and electronic equipment.

Classification of soils

The following logo is country-specific:

TÜV SÜD certified (Technical Inspection Association SÜD)

Appendix | Symbols used 2/2

The symbols shown here can be found on the bed as adhesive labels depending on the equipment and model:

Braked bed
(Beds with roller carriage 2+4)

Unbraked bed

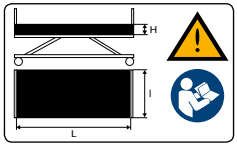
Braked bed
(Beds with runner carriage 2+2)

Risk of entrapment
(Beds with divided side rails)

Risk of entrapment
(Beds with continuous side rails)

Do not sit here!
(Beds with dynamic bed extension)

CPR handle indication
(Beds with continuous side rails)



Please observe the notes and instructions for use for the mattresses!
(All bed models)

Appendix | Technical data (standard design) 1/2

Dimensions	Style	Select
Height from floor to frame upper edge	approx. 740 mm	approx. 740 mm
Bed height	MiS® lying surface with roller carriage (4+2): 25 cm - 80 cm Plastic lying surface with roller carriage (4+2): 20 cm - 75 cm MiS® lying surface with roller carriage (2+2): 27 cm - 82 cm Plastic lying surface with roller carriage (2+2): 22 cm - 77 cm	MiS® lying surface with roller carriage (4+2): 25 cm - 80 cm HPL lying surface with roller carriage (4+2): 22 cm - 78 cm MiS® lying surface with roller carriage (2+2): 27 cm - 82 cm HPL lying surface with roller carriage (2+2): 25 cm - 80 cm
Bed dimensions (length x width)	approx. 2080 mm (+ max. 20 mm) x approx. 1005 mm (Design S)	approx. 2037 mm (+ max. 20 mm) x approx. 979 mm (Design S)
Bed weight (depending on equipment)	approx. 124 kg - 155 kg	approx. 127 kg - 158 kg
Lowermost bed position	approx. 235 mm	approx. 235 mm
Uppermost bed position	approx. 790 mm	approx. 790 mm

Appendix | Technical data (standard design) 2/2

Electrical data

Line voltage	100 - 240 VAC
Power consumption	290 W
Rated frequency	50 Hz / 60 Hz
Primary fuse	4.0 A
Operating time	2/18 min 10% Duty cycle guard 1080As (software)
Overload fuse	Open bus output, poly switch 0.3 A
Overcurrent trip	Common max. 10 A (hardware)
Operating temperature	+ 5 °C to + 40 °C
Storage temperature	- 40 °C to + 70 °C
Air humidity	30 % to 85 % at 30 °C - non-condensing
Air pressure	700 hPa to 1060 hPa
Operating height	Maximum 2000 m above sea level

Protection against electric shock	Protection class II or device with internal electrical current source 
Protection type by housing as per EN 60529	IPX4 not suitable for cleaning in automatic washing systems
Degree of protection of the applied part against electric shock as per DIN EN 60601-1	Type B 
Degree of protection against explosive substances and mixtures	The bed is not protected against explosion and should not be used in an environment in which flammable anaesthetics or flammable cleaning agents are present.

Grouping/Classification as per 93/42/EWG Appendix IX	Class I
Operating time	10 % (2 Min./18 Min.) (Operating time maximum 2 minutes / off-time 18 minutes)
Technical checks	1x annually

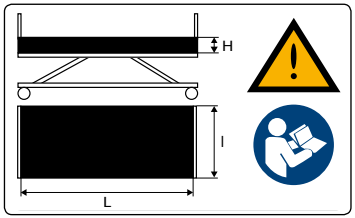
Appendix | Type labels

Type specifications

Type specifications	Explanation
Line 1	Model designation. In the example: Lowest bed model 5384 Kepler
Line 2	ID No. (made up as follows): 5384 = Model 2016 = Year of construction 12 = Production week (calendar week) 0009 = Consecutive number
Line 3	Input: mains voltage; mains frequency; power consumption
Line 4	Service life: Maximum uninterrupted operating time of electromotive adjustment. In the example: 2 min/18 min
Line 5	Suitability for automatic washing system. For example: Not for automatic washing system.

Measuring values

Measuring values	
Line 1	Leakage current. In the example: 4,4 µA



Please observe the notes and instructions for use for the mattresses!

The type labels are located on the inside of the head panel.

Raise the back section to read the type labels.

The type labels shown on this page are examples.

Symbols used 🕮 78

Appendix | Service life / disposal

The expected service life of the bed is approx. 10 years.
To ensure environmentally responsible disposal after decommissioning, please contact your responsible area sales representative.

Appendix | Manufacturer declarations, forms

Manufacturer's declarations

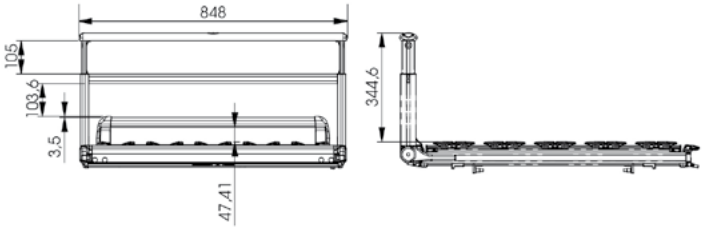
Guidelines and manufacturers declarations

Forms

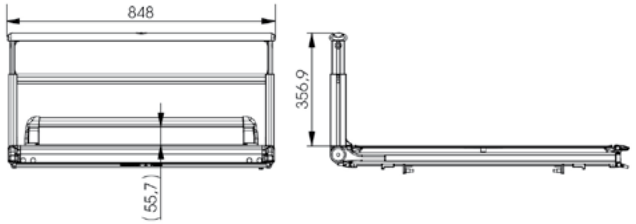
Accessories, electronic instructions for use, trademarks

Appendix | Dimension sheet for divided side rails 1/2

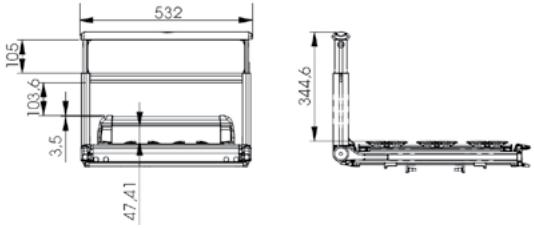
Divided side rails 34 - 35.5 cm (back section) with MiS® lying surface
(depending on the height of the lying surface elements)



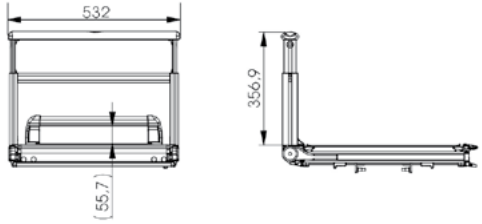
Divided side rails 34 - 35.5 cm (back section) with HPL lying surface
(depending on the height of the lying surface elements)



Divided side rails 34 - 35.5 cm (upper leg section) with MiS® lying surface
(depending on the height of the lying surface elements)



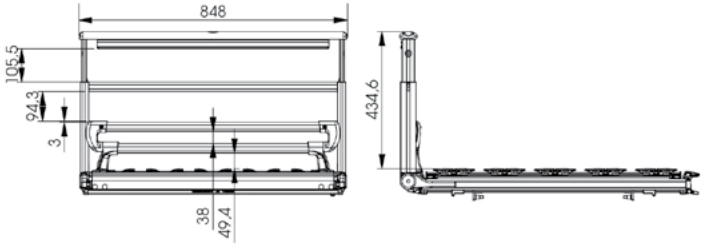
Divided side rails 34 - 35.5 cm (upper leg section) with HPL lying surface
(depending on the height of the lying surface elements)



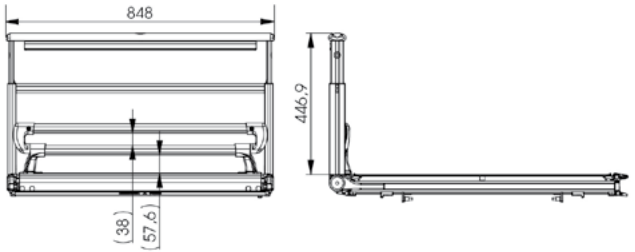
All dimensions in mm

Appendix | Dimension sheet for divided side rails 2/2

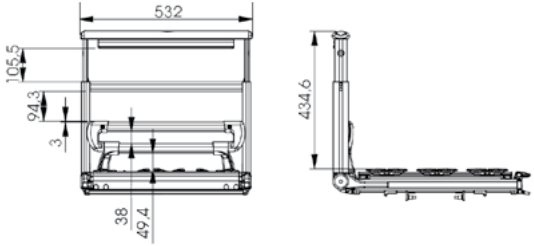
Divided side rails 43.5 - 45 cm (back section) with MiS® lying surface
(depending on the height of the lying surface elements)



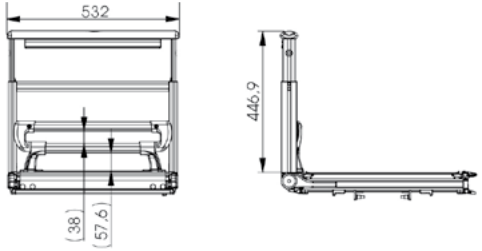
Divided side rails 43.5 - 45 cm (back section) with HPL lying surface
(depending on the height of the lying surface elements)



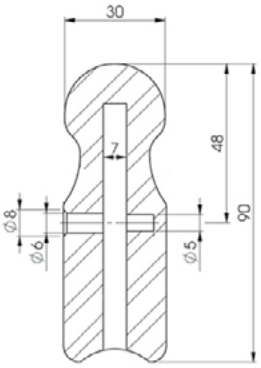
Divided side rails 43.5 - 45 cm (upper leg section) with MiS® lying surface
(depending on the height of the lying surface elements)

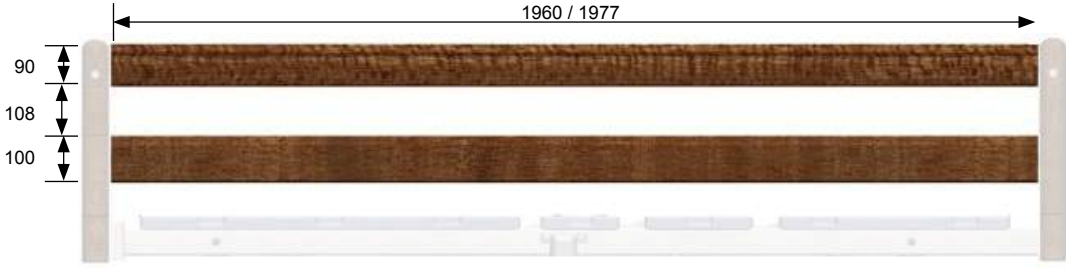


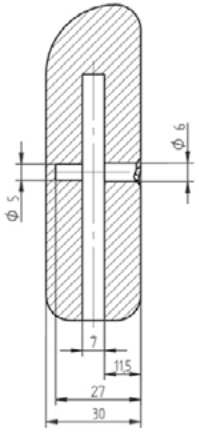
Divided side rails 44.5 - 45 cm (upper leg section) with HPL lying surface
(depending on the height of the lying surface elements)

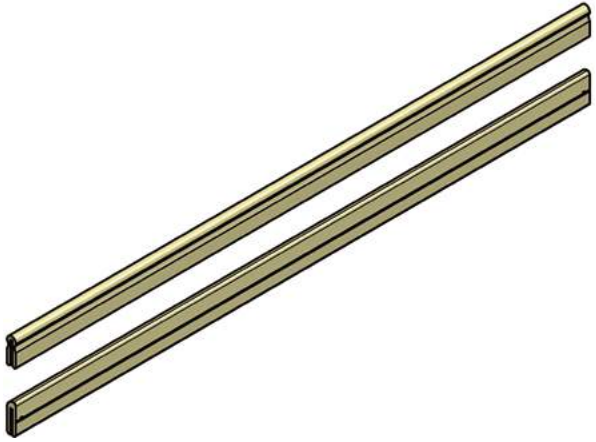


Appendix | Dimension sheet for continuous rails









All dimensions in mm

Table 201 – Guidelines and manufacturer's declaration – Electromagnetic compatibility (6.8.3.201 a) 3))		
The bed is intended for use in the electromagnetic environment as described below. The customer or user of the bed should make sure that it is operated in such an environment.		
Transmission measurements	**Correspondence**	**Electromagnetic environment - Guideline**
HF emissions DIN EN 61000-3-2	Class A	The bed is suitable for use in all institutions, including residential areas and intended for those that are directly connected to a public mains supply network that also supplies buildings.
Voltage fluctuations / Flicker DIN EN 61000-3-3	Conforms	
RF emissions CISPR 14 – 1	Conforms	The bed is not suitable for connection to other equipment.

Continued on next page ⇨

Guidelines and manufacturer's declaration – Electromagnetic compatibility (6.8.3.201 a) 6))			
The bed is intended for use in the electromagnetic environment as described below. The customer or user of the bed should make sure that it is operated in such an environment.			
Immunity test	**IEC 60601 Testing level**	**Compliance level**	**Electromagnetic environment – Guideline**
Discharge of static electricity (ESD) DIN EN 61000-4-2	± 6 kV contact discharge ± 8 kV air discharge	± 6 kV contact discharge ± 8 kV air discharge	The ground should be made of wood or concrete and be laid with ceramic tiles. If the ground is covered with synthetic material, the relative air humidity must be at least 30%.
Rapid transient electrical disturbance/ bursts DIN EN 61000-4-4	± 2 kV for voltage supply ± 1 kV for input and output cables	± 2 kV for voltage supply Not applicable	The quality of the voltage supply should be commensurate with a typical commercial or hospital environment.
Surge voltages DIN EN 61000-4-5	± 1 kV series mode voltage ± 2 kV common-mode voltage	± 1 kV series mode voltage Not applicable	The quality of the voltage supply should be commensurate with a typical commercial or hospital environment.

Continued on next page ⇨

Immunity test	IEC 60601 Testing level	Compliance level	Electromagnetic environment – Guideline
Voltage dips, short-circuit interruptions and voltage fluctuations in the supply voltage DIN EN 61000-4-11	< 5 % U_T (> 95 % voltage peaks in U_T) for 0.5 cycles 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles < 5 % U_T (> 95 % dip in U_T) for 5 seconds	< 5 % U_T (> 95 % voltage peaks in U_T) for 0.5 cycles 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in UT) for 25 cycles < 5 % U_T (> 95 % dip in U_T) for 5 seconds	The quality of the voltage supply should be commensurate with a typical commercial or hospital environment. If the user requires continued functioning of the bed when interruptions in the power supply occur, it is recommended that the bed be powered by an uninterruptible power supply or a battery.
Magnetic field at supply frequency (50/60 Hz) DIN EN 61000-4-8	3 A/m	3 A/m	Magnetic fields at mains frequency should correspond to the typical values present in commercial and hospital environments.
Remark 1: U_T is the mains AC voltage before the testing level is applied.			

Continued on next page ⇨

Table 204 – Guidelines and manufacturer's declaration – Electromagnetic compatibility for all devices and systems that are not life-sustaining (6.8.3.201 b))			
The bed is intended for use in the electromagnetic environment as described below. The customer or user of the bed should make sure that it is operated in such an environment.			
Immunity test	**IEC 60601 Testing level**	**Conformity level**	**Electromagnetic environment – Guideline**
Conducted HF disturbances DIN EN 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	

Continued on next page ⇨

Immunity test	IEC 60601 Testing level	Conformity level	Electromagnetic environment – Guideline
Radiated HF disturbances DIN EN 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	Portable and mobile radio equipment should not be used any closer to the bed or its cables than the recommended protective distance which is calculated based on the equation applicable for the transmission frequency. **Recommended protective distance** $d = 1.17\sqrt{P}$ 150 kHz to 80 MHz $d = 1.17\sqrt{P}$ 80 MHz to 800 MHz $d = 2.33\sqrt{P}$ 800 MHz to 2.5 GHz Where *P* is the rated output of the transmitter in Watts (W) as specified by the transmitter manufacturer and *d* is the recommended protected distance in metres (m). The field strength of stationary radio transmitters should be less than the conformity level [b] at all frequencies as verified by an on-site test [a]. Disturbance is possible in the environment of equipment which bears the label adjacent. 

Continued on next page ⇨

Remark 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Remark 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic variables is affected by the absorptions and reflections of buildings, objects and people.

[a] The field strength of stationary transmitters, such as base stations of cordless telephones and mobile land radio, amateur radio stations, AM and FM radio and TV stations cannot be quantified in theory in advance accurately.
To determine the electromagnetic environment in relation to a stationary transmitter, a study of the site should be considered. If the measured field strength at the site where the bed is used exceeds the conformity levels given above, the bed should be observed to ensure that it functions correctly.
If unusual function characteristics are observed, additional measures may be necessary, such as a modified alignment or another location of the bed.

[b] In the frequency range from 150 kHz to 80 MHz, the field strength should be less than 3 V/m.

Continued on next page ⇨

Table 206 – Recommended protected distance between portable and mobile HF telecommunications equipment and the bed – for devices and systems that are not life-sustaining (6.8.3.201 b))

The bed is intended for use in an electromagnetic environment in which HF disturbances are controlled. The customer or user of the bed can help to avoid electromagnetic disturbances by respecting the minimum distance between the portable and mobile HF telecommunications equipment (transmitters) and the bed. The recommended minimum distance d is dependent on the maximum power output of the communications equipment (see below).

	Protective distance corresponding to frequency of transmitter m		
Nominal output of the transmitter W	150 kHz to 80 MHz $d = 1.17\sqrt{P}$	80 MHz to 800 MHz $d = 1.17\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.33\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.37	0.37	0.74
1	1.17	1.17	2.33
10	3.69	3.69	7.38
100	11.67	11.67	23.33

For transmitters whose maximum rated output is not specified in the table above, the recommended protected distance *d* in metres (m) can be calculated using the equation in the column that features *P* as the maximum power output of the transmitter in Watts (W) as defined by the transmitter manufacturer.

Remark 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Remark 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic variables is affected by the absorptions and reflections of buildings, objects and people.

VOLKER

DECLARATION OF CONFORMITY

Manufacturer's Name:	Voelker GmbH
Manufacturer's Address:	Wullener Feld 79, 58454 Witten, Germany
Name of Device:	Model: 5384 Kepler / Style / Select
Model Numbers:	P5384A including features and accessories listed in the Instruction for Use[3]
	P5384A (Bed will be marked with Model# and option code P5384A0000001[1])
Serial Numbers:	5384-yyyy-nn-mmmm[2]

We hereby declare that the above mentioned medical devices comply with the provisions of the European Medical Devices Directive 93/42/EEC, 768/2008/EC and 2011/65/EU respectively. The 5384 LTC Bed is a Class I device (per Annex IX, Rule 1 and 12). This declaration is based on conformity with Annex VII of Medical Devices Directive 93/42/EEC.

The declaration is based upon:

- **Information provided in the product Technical File Doc NPD28063**
- **Essential Requirements Matrix NPD28060**

European Union Representative: **Voelker GmbH**
Wullener Feld 79
58454 Witten

Signature:		
Name & Title:	***Kevin Masuch*** ***(Complaint Manager QA/RA)*** **(prepared by)**	***Joerg Waldeyer*** ***(Management Representative)*** **(approved by)**
Date:	06-SEP-2016	6. Sept - 2016

NOTE 1: *P5384A0000001 The model no. (Manufacturing tiem no. P5384A0000001) is configured as follows: P5384A0000001, where "A"stands for the latest bed revision letter, which will roll over for major model changes. The 5384 is the product type, six "0"'s represent a number which corresponds to a unique mix of options and features. As new options are made, a new number will be created. Each time the unique mix of options and features is built; this same model no. suffix will be used.*

NOTE 2: *5384 = Bed model; yyyy = year of manufacturing; nn = week of manufacturing; mmmm = consecutive number*

NOTE 3: *Availability of specific features and accessories, including mattresses, may be limited by specific country requirements.*

Technical check of Völker hospital and healthcare beds in accordance to German standards and safety regulations incl. measurements required

Project, address, customer no.:					
Type of bed, product, location of the bed:					
Bed Identification (e.g. facilities own identification or Völker ID-no.):					
Date of check:		Name of technician:			
Kind of check	**Component to be checked**	**Anually**	**Accepted**	**Not accepted**	**Not applicable**
Visual inspection	Inscription on device readable				
	Instructions for use available				
	Base frame	B*			
	Lying surface, wing and spring elements (if existing)	B*			
	Trapeze bar adapter, infusion bar adapter	B*			
	Power supply cable, plug or charger, charging connection	B*			
	Strian relieve, bend protection, cable hook	B*/S*			
	Connecting cable, plug-in contacts, blind plugs	B*/S*			
	Positioning (spacing 1 mm) and sensor cabling (only Vis-a-Vis-bed)	B*/S*			
	Housing (motor, control electronics)	B*			
	Hand control (housing, cable)	B*			
	Nurse keypad, nurse hand control (housing, cable)	B*			
	Trapeze bar, assist rail infill panel (side rail centre), additional accessories	B*/F*			
	Transverse motors and cover, head and foot ends	B*			
	Castors	B*			
	Wall buffer wheel (if existing)	B*			
	Side rails including telescopic section, if applicable	B*			
	HiLow-elevation: check screw locking (only for 5380)	S*			
Functional inspection of side rails including telescopic section, if applicable	Locking devices	X*			
	Deformation	X*			
	Abrasions	X*			
Functional inspection of drives with hand control and nurse keypad/nurse hand control	Back section, upper leg section, lower leg section, height adjustment, Trendelenburg position, reverse Trendelenburg position, length adjustment (only for Vis-a-Vis-bed) - approach all end positions	X*/M*			
	Angle limitation (back section to upper leg section >90°)	X*			
	Adjustment lower leg section (rastomat/hydroli/ft/support plate)	X*			
	CPR function (if existing)	X*			
	Brake (electrical or mechanical) - brake applied - free running (only for hospital beds and - steering position S 280/S 310/S 380/S 282/S 382 (Vis-a-Vis))	X*			
	Mechanical release (only for electrical brakes of hospital beds)	X*			
Functional inspection replacement	9 V battery (only for beds with Oki-/Ilcomat except S 980-1W/S 961) Replaced (yes/no)	A2*			
	Trapeze bar handle and belt (if existing) Replaced (yes/no)	A*			
Functional inspection miscellaneous	Bed extension (if existing)	B*			
	Bedding storage/bedding drawer (if existing)	B*			
	Inspection of the adhesive joints on headboard and footboard (if existing)	B*			
Comment					
Legally relevant for Germany only (in accordance to DIN EN 62353)	Leakage current by means of alternative measurement ≤ 500 µA	µA			
	Potential equalization impedance < 0,2 Ohm (if existing)	Ω			
	Measuring instrument S/N				
Total result of the inspection:					
Signature of technician:		Next regular inspection:			

A: To be replaced every 5 years for handles (H) and for H with roll function (RF) in nursing home mode, every 3 years for H with RF in hospital mode, every 2 years for H with RF for cleaning in automatic bed washing systems · A2*: To be replaced every two years · B*: Check for damage · F*: Check for deformation · M*: Check function of motors and end switches, does the motor switch off when reaching the end position? · S*: Check for correct fit · X*: General function control*

Völker GmbH · Wullener Feld 79 · 58454 Witten/Germany · Telephone +49 2302 960 96-82 · Fax +49 2302 960 96-86 · E-mail: service@voelker.de

Spare part order

Völker GmbH
Service
Wullener Feld 79
58454 Witten/Germany

Tel.: +49 2302 96096-62
Fax: +49 2302 96096-66
E-Mail: service@voelker.de

Address: _____

_____

Name of the ordering party: _____

Street address: _____

Zip code/city/country: _____

Telephone number: _____

Customer number: _____

Customer order number: _____

Purchase order date: _____

Signature: _____
(Please, to fill in the form use block letters)

Stamp

☐ **Shipping address, if different from the billing address**

☐ **Billing address, if different from the shipping address**

Address: _____

_____

Attention of: _____

Street address: _____

Zip code/city/country: _____

Please fill out all the information carefully and complete the form in its entirety, otherwise we may have problems in delivering and processing this order.

MODEL (Bed-type)	SERIAL NO. (Identifaction label inside of the bed-head)	SPARE PART DESCRIPTION	ITEM NUMBER	QUANTITY

Appendix | Available accessories for the Style and Select models 1/2

Item number	Designation	Model	
		Style	Select
PZP-3060	Trapeze bar with grab handle (consists of trapeze bar BG6182 and grab handle KT2099-01)	●	●
PZP-3060/2	Trapeze bar with grab handle incl. roll function (consists of trapeze bar BG6182 and grab handle KT2212-03)	●	●
PZK-969/2	Rail infill panel	-	●
PZK-969/3	Rail infill panel	-	●
PZP-3070	Rail infill panel holder	-	●
PZP-965	Holder for one pair of crutches (S Design only)	●	●
PZP-3055/2	Infusion holder for trapeze bar	●	●
PZP-3057	Drip stand in conjunction with BG5728	●	●
PZP-5084	Assembly set for lamp and drip stand (adapter)	●	●
PZP-3059	Rail infill panel cover	-	●
PZK-940/3	Urine bottle basket for ISO standard rail	●*	●
PZP-3056 C 2.0	Protective side rail pads for divided side rails 34 cm height	-	●
PZP-2056 2.0	Protective side rail cover for continuous side rails	●	-
PZK-1040/2	Urine bottle basket with holder for seat section	-	●
PZP-3068	Wall protector wheels	●	●
PZP-2052 S	Tray	●	-
PLHE01	Light white (only in conjunction with adapter PZP-5084)	●	●
PLHE02	Light aluminium (only in conjunction with adapter PZP-5084)	●	●
PLME01EU	Light white (only in conjunction with adapter PZP-5084)	●	●
PLME02EU	Light aluminium (only in conjunction with PZP-5084)	●	●
PAMALIA02	Light LED (only in conjunction with adapter PZP-5084)	●	●

●* = Only available in conjunction with 4+2 roller carriage

Appendix | Available accessories for the Style and Select models 2/2

The server shown here is recommended:

- RT-985

Requirement for the use of the electronic instructions for use

In order to open the electronic version of these instructions for use (PDF file), you must have Adobe Reader 7.0.5 or later (or the corresponding Adobe Acrobat version) installed on your PC.

Adobe Reader is available for nearly all operating systems.
The latest version of each can be downloaded free from:
http://get.adobe.com/de/reader 🕮.

The electronic version of these instructions for use may be found on the Internet at www.voelker.de 🕮.

Trademarks

Adobe, Acrobat and Reader are protected or registered trademarks of Adobe Systems Incorporated.

Windows is a registered trademark of Microsoft Corporation.

VÖLKER

Völker GmbH
Wullener Feld 79 · D-58454 Witten/Germany
Phone +49 2302 960 96-0 · Fax +49 2302 960 96-16
www.voelker.de · info@voelker.de