VOLKER

Instructions for use
Models 2080, 3080

Version, Imprint

Instructions for Use G57

CE

HB-RD-000067 Rev. 2
for bed models 2080, 3080.

from year of construction March 2003

These instructions for use are valid from 11/2021

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 to reflect technical advances.

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

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

Technical documentation can be made available on request.

You will find the electronic version of these instructions for use in PDF format online at www.voelker.de.

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Notes | General

General notes

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

Völker beds satisfy all the 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 und DIN EN 60601-2-52).

Please read the general safety notes. Please also note (with particular attention to any warranty claims) the further notes on the following pages.

Standard design

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

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.

Copyright protection

Warranty and liability

Völker GmbH is liable for any faults or failures, not including further claims arising in the context of the warranty obligations detailed in the main agreement. Claims for compensation, for whatever legal reason such claims may be raised, will not be entertained.

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 excepted.

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

Völker bed models 2080 and 3080 are beds for medical use and are intended for the laying down and care of occupants/patients in care institutions, hospitals and in suitable rooms in residential buildings. Any use of the Völker bed other than for the purpose intended excludes the company from any possible liability. (Application environment 1, 2, 3, 4 and 5 as per DIN EN 60601-2-52)

The operator shall consider the patient's mental and physical condition and the resulting risks to the operation of this medical device before using the bed.

The bed may only be operated under the conditions described in these instructions for use. Any other use is considered improper.
The safe working load of the bed built after April 2010 is 230 kg (in case of beds built before April 2010, the safe working load is 210 kg).To calculate the maximum occupant/patient weight, 20 kg for the weight of the mattress and 45 kg for accessories as well as the weight carried by the accessories must be deducted from the safe working load when using the bed in application environments 1 and 2 (intensive and acute care) according to DIN EN 60601-2-52. When using the bed in application environments 3, 4 and 5 (long-term, home and outpatient care), the values to be accounted for are 20 kg for the mattress and 15 kg for accessories as well as the weight carried by the accessories.

Contraindications

This bed is only suitable for patients whose body size and weight are above the following minimum requirements:

Height: 146 cm
Body weight: 40 kg
Body Mass Index (BMI): 17

BMI is an index value derived from body weight and height.

BMI is calculated using this formula:

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

The the maximum occupant / patient weight can therefore be taken from the following table:

Model	Safe working load	Max. occupant/patient weight	
		in application environment 1, 2	in application environment 3, 4, 5*
Beds built after April 2010:			
2080	230 kg	165 kg	195 kg
3080	230 kg	165 kg	195 kg
Beds built before April 2010:			
2080	210 kg	145 kg	175 kg
3080	210 kg	145 kg	175 kg

* Except in the vicinity of high-frequency surgical equipment and in rooms containing magnetic resonance imaging (MRI) equipment.

Side effects

If the patient lies down for a longer period of time, pressure ulcers can occur without appropriate countermeasures

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 ten 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 with a vehicle,
- Overloading of the bed beyond the specified safe working load.

⚠ **CAUTION** If it is impossible to avoid accommodating persons under 146 cm in height in the beds, the protective covers for the side rails must be used. This also applies when the bed is used by weak or confused persons.

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

Notes | General regulations, training/instruction of users, further requirements

General regulations

The bed must only be operated and used in accordance with its designated purpose, in line with the applicable regulations, the generally acknowledged rules of technology and the stipulations of occupational safety and accident protection 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 representative 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 hand over the hand 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 care beds in recent years. Völker has addressed this topic by increasing the “safe working load” for the bed.
The higher strain requirements are not limited to beds only they apply also to static and floor requirements.

For this reason, we recommend that flooring designed for these loads is used in areas where the beds are situated. This means flooring that is classified in accordance with DIN EN ISO 10874 and that has been laid by professionals (flooring for public or commercial areas that are subject to medium or heavy traffic). public and industrial use with moderate or heavy traffic.

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

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

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

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

NOTE warns of potential damage to objects or property.

Before first activation

Before the bed is put into action for the first time, care personnel must read these instructions for use in full and with care.

Before the bed is activated for the first time, care personnel must be instructed in the handling of the bed using the instructions for use. The potential dangers that can arise despite correct 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 good, safe condition and will ensure safe use (Functional check).

WARNING No adjustments or modifications may be made to Völker products without the permission of the manufacturer. This automatically voids all warranty claims and CE conformity.

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.

WARNING Head and foot section are not connected to the potential equalization. Additional electrical devices should not be connected here.

Position of the bed

CAUTION To avoid injury from falls, we recommend always moving the bed to its lowest position with the castors fixed when the patient is sleeping in the bed (except when undertaking care measures).

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 ob-stacles 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 being transported, the castors must always be raised, since the bed may be required as a support for when the occupant/patient stands or lies down. If the bed rolls away while the castors are down, this can lead to a serious fall. Once the castors have been raised, it must be checked that the bed is actually securely parked, i.e. the castors are completely raised. The bed can be in a non-fully-braked status even after first activation or reactivation, and consequently it must be checked that the castors are correctly raised.

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"
Where the physical or mental status of a occupant/patient deems it necessary to use side rails to prevent the occupant/ patient from falling out of bed, the following safety measures must be observed:

- It must be checked that the use of side rails is permissible by law.
- The side rails may only be operated by trained care personnel.
- Ensure that the side rails (or parts thereof) are either completely raised and locked in position, or completely lowered.
- It must be ensured that the occupant/patient does not come into contact with the side rail elements when the electrical lying surface adjustment mechanism is actuated. Equally important is that no parts of the body are sticking out through the side rails.
- If the side rails are used for a child or a person whose psychological status deems their use necessary, then it must be ensured that the hand control is kept out of their reach or is blocked. It is also strongly recommended that side rail protective covers are used.

- **DANGER** If these safety measures are not observed by care personnel, injuries to the hands, knees, fingers, feet and hips, haematomas or other injuries can occur as a result of entrapment. Where children or individuals who are less than 146 cm tall are concerned, non-observance of these measures can cause death!

WARNING
"Risk of entrapment"
On model 2080, the side rails must either be fully raised and securely locked in position, or be completely lowered.

WARNING "Risk of injury"
If the side rails are damaged, the bed must not be used and must be repaired.

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.

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

Accessories

WARNING "Risk of injury"
Only original Völker accessories must be used! Third-party accessories must be subjected to testing before use.

Use of lifting devices

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

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

Use of oxygen equipment

DANGER "Risk of fire"
Never use the bed in an oxygen tent or in potentially explosive atmospheres (where flammable gases or vapours are present). Provided it has been ensured (e.g. through information in the instructions for use supplied with the equipment being used) that the use of the equipment will not raise the O_2 concentration to such a high level that there is the risk of explosion (even when no fault occurs), the device can be used.

Rail infill panels

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

Cleaning and disinfection

In order to maintain a consistent functional capability, the care bed should be cleaned, disinfected and tested at the soonest possible opportunity following each use, so that it can be reused immediately without risk.

Risks can occur if the bed is not subjected to proper cleaning/disinfection.

Maintenance and repair

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 relevant national regulations.

The following applies for Germany: the staff requirements defined by the regulations governing the installation, operation, use and maintenance of medical devices must be ensured by the operator of the beds.

To ensure that the beds work properly, the instructions for use and the bed service manual must always be accessible to the service personnel.

Once the maintenance work or repairs have been carried out, a corresponding control/check must be carried out on the work done. During this check, it must be determined that the bed can be used in accordance with the specifications without risk to occupants/patients, users or third parties.

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

Any discernible damage must be eliminated immediately.

Electromagnetic / static interference

The care beds in model series 2080 and 3080 satisfy the EMC requirements in accordance with the international requirements.
The basis for testing is standard DIN EN 60601-1-2.

Serious incidents

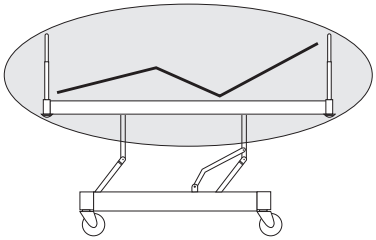
Any serious incidents that occur in conjunction with operation of the bed must be reported immediately to the appropriate authorities in the relevant country and to Völker GmbH.

Application parts

An application part is a part of a medical electrical device (ME device) which of necessity comes into physical contact with the patient under normal conditions of use, so that the ME device or an ME system can fulfil its function (DIN EN 60601-1).

For the 2080/3080 bed, these are:

- hand control
- side rails
- head/foot ends
- lying surfaces
- frame



A schematic representation of the application area.

Functional description | Overview | Model 2080

Functional description | Overview | Models 3080

Adjustable side rails for back rest section, both sides

Adjustable back rest section

Hand control, transverse

Adjustable side rails for lower leg section, both sides

Head board

Holders for trapeze bars, drip stands, etc., both sides

Foot board

Lowerable castors (integrated into all four feet)

Adjustable lower leg section

Accessories rail for holding accessories (urine bottle basket, universal hook, etc.), both sides

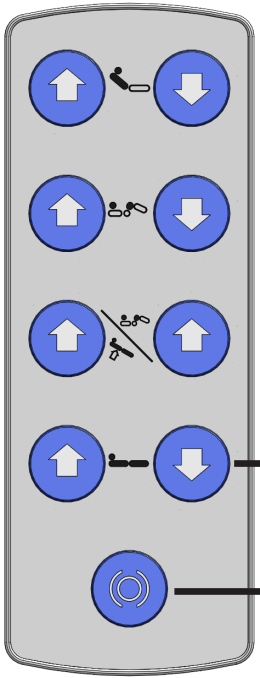
4-pillar height adjustment

Seat section, fixed

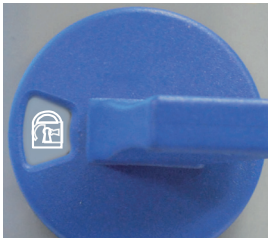
Adjustable upper leg section

Nurse keypad (not shown)

Functional description | Hand control with hook



Reverse side:



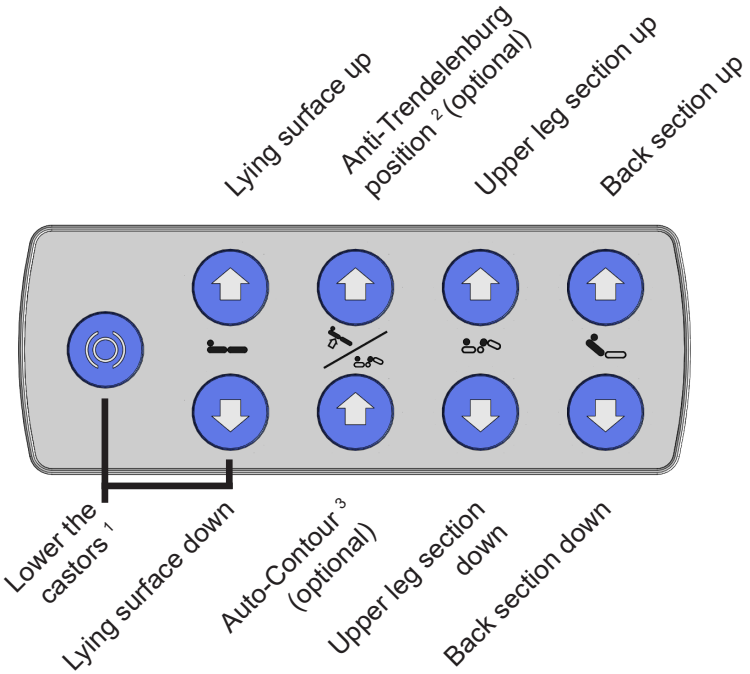
Hand control locked

Hand control unlocked

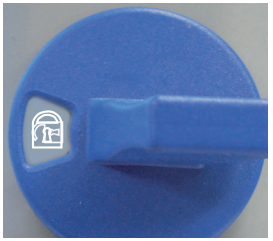
[1] Leg end lowered
[2] Back and upper leg section raised simultaneously
[3] Press both buttons simultaneously: the lying surface moves to the lowest position and the castors lower

⚠ **WARNING** When actuating motorized adjustments with the side rails raised, it must be ensured 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!

Functional description | Transverse hand control (option)



Reverse side:



Hand control locked

Hand control unlocked

[1] Press both buttons simultaneously: the lying surface moves to the lowest position and the castors lower
[2] Leg end lowered
[3] Back and upper leg section raised simultaneously

⚠ **WARNING** When actuating motorized adjustments with the side rails raised, it must be ensured 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!

Double-click function "Lying surface up/down"

The nurse keypad can be equipped with an automatic function (double-click) for lying surface height adjustment on a country-by-country basis.

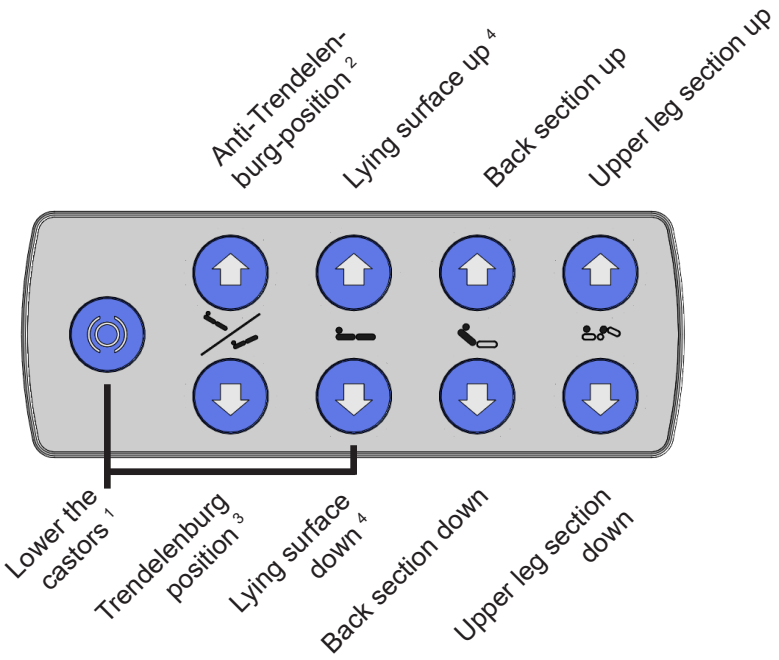
With a double-click on the "Lying surface up" or "Lying surface down" button, the lying surface moves to the highest or lowest position, respectively. This function can be stopped at any time by pressing any button.

WARNING "Risk of entrapment"
If the double-click function is being used, the care giver must supervise the occupant/patient of the bed until the adjustment procedure has completed.

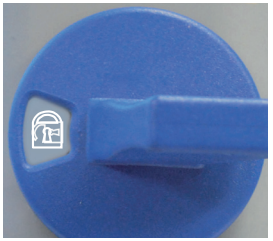
WARNING
When using a nurse keypad (optional), this must always be positioned so that the occupant/patient cannot reach it.

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

Functional description | Nurse keypad with complete lock-out 2/2 (option)



Reverse side:



In this position, the keypad and hand control are completely locked

Nurse hand control unlocked

[1] Press both buttons simultaneously: the lying surface moves to the lowest position and the castors lower
[2] Leg end lowered
[3] Head end lowered
[4] The nurse keypad can be equipped with an automatic function (double-click) on a country-by-country basis

⚠ **WARNING** When actuating motorized adjustments with the side rails raised, it must be ensured 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!

Functional description | Trapeze bar and accessory holders, accessories rail

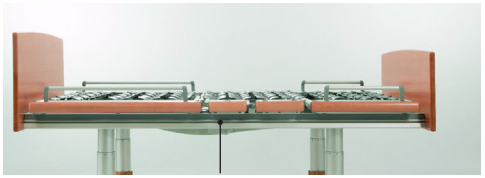
On the inside of the head panel are two holders for the trapeze bar and drip stands/accessories. On model 3080, there are two additional sockets for drip stands at the head and foot ends, next to the protective wheels.

The trapeze bar and other accessories must be slotted into the large holders until they engage as anti-twist. A secure hold must be checked in accessories mounted on the small holders.

⚠ **WARNING "Risk of falling"**
The trapeze bar must not be used by the occupant/patient as a means for climbing into or out of the bed. The tra-peze 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"**
Ensure that the trapeze bar is completely slotted into the holder and securely seated.
Note: the safe working load of the trapeze bar is max. 75 kg.

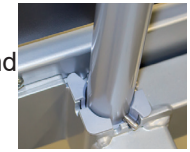
There is an accessory rail on either side of the bed to accommodate accessories.



Accessories rail
(e.g. for urine bottle basket, universal hook etc.)

⚠ **WARNING** Only use the the tra-peze bars listed in the accesso-ries list!

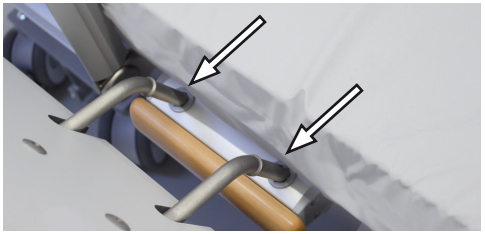
Place the Ø 34 mm trapez bar into the holder and align it using the grooved pin.



⚠ **WARNING** Even if the bed is optionally equipped with potential equalization, this is not provided at the trapeze bar.

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.

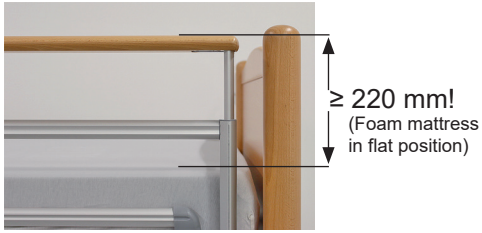
❗ ***NOTE*** Please observe the detailed instructions for use for the rail infill panels.

Functional description | Accessories 1/2

To minimise the risk of injury, use only Völker mattresses whose dimensions are matched to Völker lying surfaces.

⚠ **DANGER** The use of mattresses not corresponding to the specifications may lead to the risk of suffocation!

⚠ **DANGER** The height of the raised side rails above a mattress must always be greater than or equal to 220 mm. If not, the patient may inadvertently fall out of the bed. Please note that mattress height directly affects this.

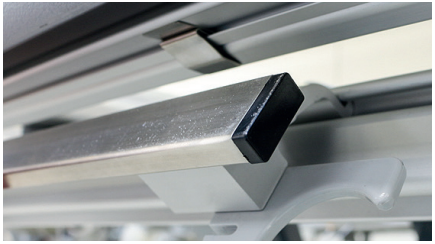


Accessory rails on both sides

Accessory rails are available for the bed in two different lengths.

- Length 40 cm
- Length 60 cm

Both rails can be individually attached to the longitudinal profiles on either side of the bed.



Hook the accessory rail into the side panel. Turn the two clamping levers inwards by 180° to lock the accessory rail in place.

⚠ **WARNING** If the bed needs to be moved ordjusted, the infusion lines and cables must be closely monitored by care staff.

You should also note that drainage devices could touch the floor when the bed is lowered. This also applies to the Trendelenburg and reverse Trendelenburg position.

The safe working load of each accessory rail is 20 kg.

NOTE If the lying surface height is lowered to below 40 cm, any objects attached to the accessory rail must be removed.

Use of securing systems

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

If securing systems in the form of abdominal belt are used, then it must be ensured that the side rails are completely raised. In the case of model 3080, the gap in the middle of the rails must be closed using a rail infill panel.

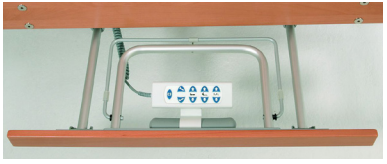
⚠ **DANGER** When using securing systems and rail infill panels, please note the separate instructions for use pertaining to these accessories.

The lying surfaces must **never** be adjusted while the occupant/patient is secured **and** must always be in the lowest position!

The lying surface adjustment functions must be locked-out when a occupant/patient is secured and the hand control must be kept out of the bed occupant's/patient's reach!

The standard design of the bed can be supplied with various versions and options.

Independent of the fastening option, there are optional hand controls and nurse keypads with different function keys.

Version/option	Description
Hand control (versions)	With hook (standard):  Transverse on the side rail with clip(option for 3080): 
Nurse keypad (optional)	 1. Clicked into the side plate:  2. In drawer (for beds built before March 2010):  3. In bed linen storage area (for beds built before March 2010)

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.

Functional description | Versions and Options 2/2

Version/option	Description
Bed extension (optional)	Model 3080 can be extended by 20 cm using a dynamic bed extension Static bed extensions are available with a length of 20 cm for the model 2080 and with a length of 29 cm for the model 3080.
Bed linen storage area (optional)	A pull-out bed linen storage area is possible at the foot end.
Side rails (versions)	The bed can be equipped with various side rail versions: Back/lower leg section: 1. Can be pulled out to 34 cm* (standard) 2. Can be pulled out to 37 cm* (Optional for models 3080) (not possible for design FS and MA) 3. Can be pulled out to 43,5 - 45 cm* (Optional for models 3080) (not possible for design FS and MA)

* Measured from the top edge of the side rail to the lying surface (without mattress)..

These instructions for use cover all of the versions and options listed.

Precise details of the supplied bed designs can be found in the order specifications for your beds. If the original bed specification should no longer be available, please contact Völker Customer Services.

Please make a note of the Völker serial number (ID no.) on the type label before you call.

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

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.

Operating time

The maximum duty cycle for the electromotive bed functions is specified on the bed (type label) or in the technical data sheet.

“1 min./10 min.” means that each electromotive adjustment may be operated for a maximum of 1 minute, after which a pause of 10 minutes is necessary (protection against overheating).

NOTE Should the maximum duty cycle of 1 minute be exceeded repeatedly or for longer, safety cutout devices on the bed may cause the electromechanical motor system to stop. The bed must not be manoeuvred using the motors until it has cooled down sufficiently!

Battery pack (option)

The battery pack has a charging capacity which allows a theoretical permanent operation of at least 3 lifting and lying surface adjustments with a working load of 230 kg (for beds built before April 2010 210 kg) when supplied.

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

Fully discharged battery packs can be damaged to the extent that premature replacement is needed!

To increase the service life of the battery pack, we recommend disconnecting the bed from the mains when putting it into storage (Taking out of service).

You can find notes on reactivation in the chapter “Electrical activation“.
The bed should not be stored for a period longer than 6 months with a fully charged battery pack without recharging it.
Appropriate and correct use of the battery pack is essential for it to have a long service life!

In order to guarantee electrical functionality at all times, the bed should be connected to the mains when ever possible.

Safety cut-out device

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

Conditions for set-up

The bed is only approved for use in dry rooms (see technical data sheet). A mains power supply and possibly a potential equalization connection are required for operation of the bed in any suitable room. When this is available and the building installation permits it, the bed should always be connected to the potential equalization. .Please note that the mains socket for the bed must be freely accessible and not impeded by a piece of furniture, for example.

Hand control connection

The hand control should be connected to the socket provided, where appropriate. The spiral cable must be routed so that it is not under tension.

Routing the hand control cable

Bed transport

The bed can be moved without auxiliary transportation devices. To do this, set the bed to transport mode (Move lying surface into lowest possible position and lower the castors).

⚠ **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 on a solid floor. Never attempt to push it over obstacles of over 1 cm in height. The maximum angle of inclination of the floor must not exceed 10°.

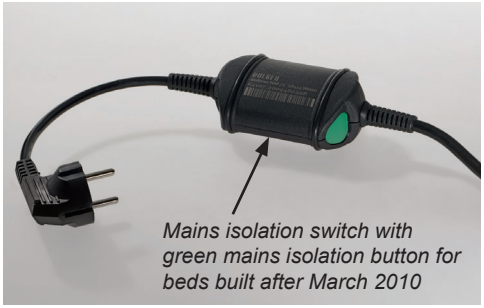
The bed can be transported by one person on even surfaces. If the bed has to be moved over sloping or rising surfaces, the bed may only be transported by at least two people holding the bed at the head and foot ends due to its weight and for the safety of the nursing staff.

WARNING Ensure that the plug connection between the mains cable and the lying surface adjustment motor is correctly positioned!

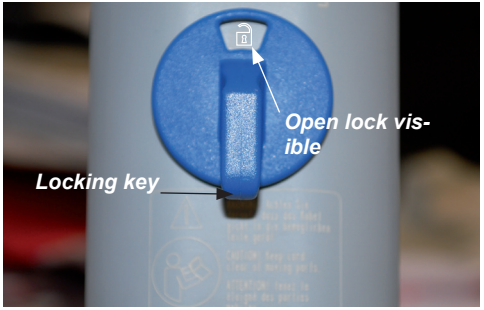
WARNING Check the mains cable for damage.
If the cable is damaged, the bed must not be used and must be taken out of service immediately!

NOTE Please be aware that incorrect handling of the mains cable can cause the battery pack (optional) to no longer charge. Incorrect handling includes actions such as dropping the mains isolation, pulling the cable of the mains plug to remove it from the socket, clamping the mains cable between the lying surface and lying surface frame as well as running over the cable when transporting the bed.

1. Connect the mains plug to the mains power socket.
2. Press the green button on the mains isolation switch for one second to establish the mains connection.



3. Unlock the locking switch on the reverse of the hand control and the nurse keypad (optional) using the locking key (open lock visible) in order to activate the bed's electrical functions.



NOTE The mains isolation switch ensures that the bed is only supplied with mains voltage when an electrical function is actuated or the battery pack (optional) is being charged.

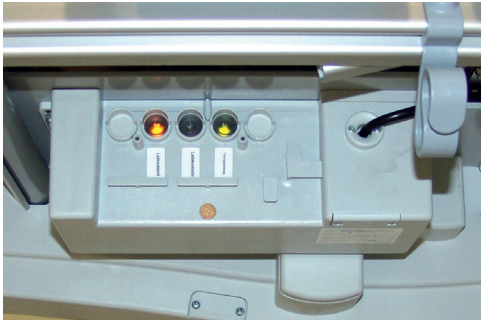
Activation | Using the battery pack (option) 1/2

The battery pack (optional) allows the bed to be operated independently of the mains supply for at least 3 adjustment cycles under full load when delivered.

The LED displays three colours:

Green	The battery pack is connected to the mains supply. The charging cycle is running.
Yellow	The battery pack is being charged. Bed should not be disconnected from the mains.
Red	DANGER ZONE. The battery pack must be charged. The bed cannot be operated independently of the mains supply.
All lights off	The battery pack is fully charged: The mains cut-off is activated. No current flows in standby mode.

If you hear a beep, the battery pack needs to be recharged. The beep becomes weaker as the battery pack's charge diminishes. The battery pack is switched off shortly before deep discharging. After the bed is connected to the mains supply, press any button on the hand control to render it fully functional again. The battery pack is charged when it is connected to the mains after every use or if the charge has fallen too low.



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

To increase the service life of the battery pack, we recommend disconnecting the bed from the mains when putting it into storage.

The bed should not be stored for a period longer than 6 months with a fully charged battery pack without recharging it.

NOTE During the charging cycles, the battery pack is connected to the mains supply and is therefore fed with electricity. The LED displays the battery pack's charging status during the charging cycle. 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 10 °C to 40 °C, with a relative humidity of 30% to 75% and an air pressure of 700 to 1060 hPa as well as an operating height of maximum 3000 m.

WARNING The battery pack must only be replaced by personnel trained by Völker GmbH.

WARNING If the battery pack is faulty, degassing can occur. In rare cases, this can cause deformation of the battery pack housing. If this occurs, the bed must be immediately taken out of service and taken to an adequately ventilated room without sparks (electrical or fire). Immediately inform customer services should this occur!

WARNING The battery pack must be disposed of in an environmentally responsible manner using the appropriate services. Alternatively, you can return it to Völker GmbH for disposal.

To activate the hand control and the nurse keypad once the bed has been activated, the function key lock-out must be disabled, if need be.

Taking out of service

The bed is taken out of service by disconnecting it from the mains supply. To do this, the mains plug is disconnected from the mains socket and, if necessary, the optional battery pack disconnected from the control unit. If the bed is to be out of service for a period longer than two weeks, then the 9V battery/batteries must also be disconnected from the motor.

To disconnect the 9-V block battery/ batteries, remove the screw from the battery compartment on the dual drive and then pull the contact strip(s) off the battery/batteries.

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 cables is intact.
3. Ensure that the next testing date has not been missed (see testing label).
4. Check the mains cable for damage at regular intervals

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

Functional check

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

1. All electrical functions must be actuated once to their terminal positions.
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.

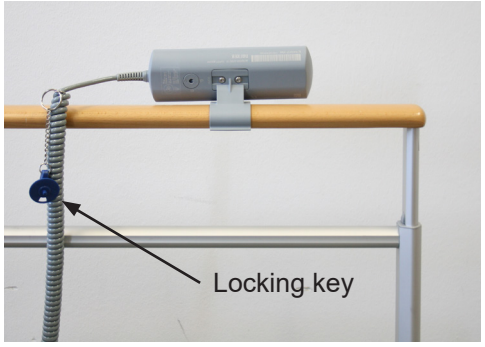
Operation | Key lock-out

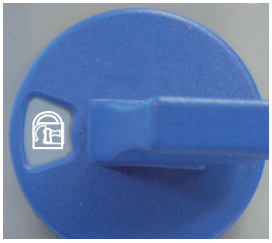
Activating the key lock of the hand control / nurse keypad (optional) disables its/their functions completely.

The lock-out switches are located on the reverse of the hand control and the nurse keypad (option). They are unblocked and blocked with the locking key (open lock visible).

If the bed functions cannot be actuated, check whether the key block is engaged or not.

The locking key should be removed from the bed when it is not required.





Hand control and/or nurse keypad (option) locked

If the nurse keypad (option) is locked, the hand control is also automatically locked (system lock).

If only the hand control is locked, the nurse keypad (option) retains its full functionality.

Hand control and/or nurse keypad (option) unlocked

To move the bed, the castors integrated into the four feet of the bed must be lowered. The lying surface must be in its lowest position before this can be done.

⚠ **CAUTION "Risk of accident"**
If the bed is not being transported, the castors must always be raised, since the bed may be required as a support for when the occupant/patient stands or lies down. If the bed rolls away while the castors are down, this can lead to a serious fall. Once the castors have been raised , it must be checked that the bed is actually securely parked, i.e. the castors are completely retracted. The bed can be in a non-fully-braked status even after first activation or reactivation, and consequently it must be checked that the castors are correctly raised.

Lowering the castors

1. Move the lying surface to its lowest position by pressing the button.
2. Press the button while holding the button down until the lifting device automatically switches off.

The bed is now standing on its four castors and can thus be moved easily.

Raising the castors

3. Press the button on the height adjustment control.

The castors retract into the pillars of the lower frame so that the bed stands firmly on four floor protection caps.

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

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

- During actuation of the back rest, 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 their body is sticking out through the side rails.

- If the side rails are used for a occupant/patient whose psychological state would deem their use necessary, then it must be ensured that the hand control is kept out of their reach or its functions are completely locked. In all cases, care must be taken to ensure that no dangers or risks can arise.

- Protective coverings 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 individuals where the risk of injury caused by unavoidable contact with the side rails is very high. The use of these protective covers, however, does not absolve care providers or the occupant/patient of the obligation to exercise the appropriate care and attention when operating the bed.
- If the side rails are used, they 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 occupant/patient will fall out of bed.

- The legal admissibility of using the side rails must be ensured.

- The side rails must only be operated by trained care staff.

- Ensure that no body parts are protruding through the side rails when the electrical lying surface adjustment function is activated.

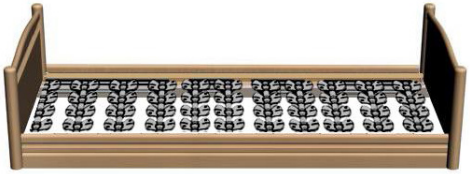
- Ensure that the side rails (or parts thereof) are either fully raised and locked or fully lowered.

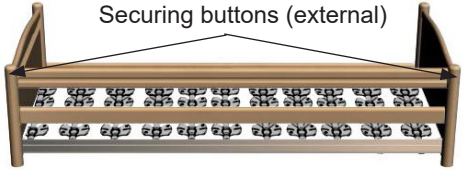
⚠ **WARNING** Failure on the part of care staff to observe the above safety measures may result in injury

All types of Völker side rails can only be replaced with tools. Only Völker GmbH approved side rails may be used for the bed.

Raising the side rails

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





Lowering the side rails

To lower the side rails, take hold of the grip recess and lift it slightly.

Press the securing button on the side and then allow the side rail to lower using your hand first at the foot end and then at the head end.

⚠ **WARNING**
"Risk of entrapment"
On model 2080, the side rails must be either completely raised and securely engaged or be in the fully lowered position.

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

Two configurations are possible for the side rails on model 2080:

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

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

⚠ **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.

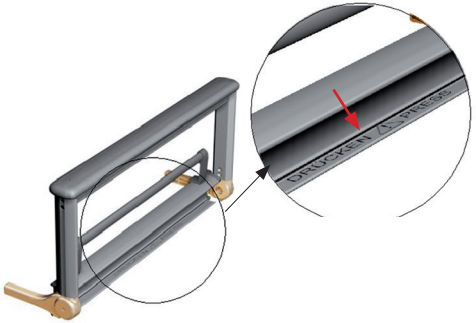
Raising the side rails

1. Pull the side rail element out horizontally sideways until the end stop, and fold it upwards.
2. To adjust the height of the side rail, pull the telescopic section upwards until it reaches its end stop.

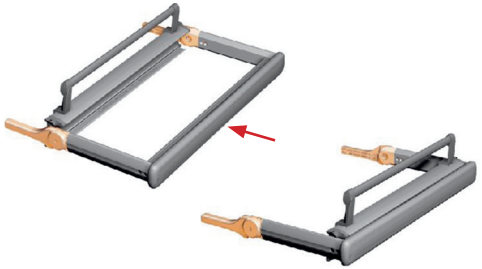
Lowering the side rails

1. Press both buttons on the outside of the frame, right under the cross-member, to bring the height-adjustable side rail element to its lowest position.

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



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



The side rail elements can be used various configurations as required to protect the occupant/patient of the bed.

Raising all four rail elements offers the occupant/patient maximum protection.

NOTE 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!

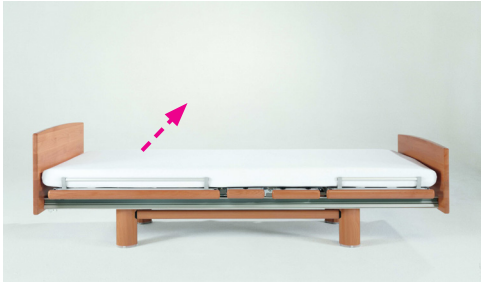
NOTE Due to their exceptional stability, the side rail elements can also be used as a surface for storing bed linen (max. 15 kg) or as an additional supporting surface for care-related positions, such as Bobath treatments, or for the delivery of physiotherapy-related treatments.

The back lying surface can be adjusted using the hand control or the nurse keypad (option).

If necessary, disable the lock of the hand control or nurse keypad (optional).

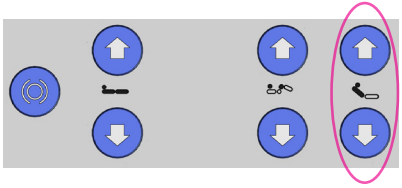
The back rest section of the lying surface can be raised up to an angle of max. 70°.

⚠ **WARNING** When the back rest 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!

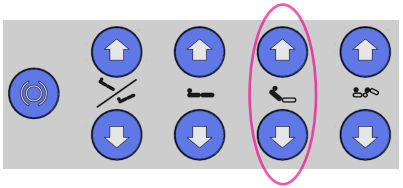


Back rest section up / down

Back rest section up / down



Hand control



Nurse keypad (option)

Operation | Mechanical rapid lowering of the back section / CPR function (option)

The bed can optionally be fitted with a mechanical rapid lowering function of the back section for resuscitation.

⚠ **WARNING** The CPR function (Cardiopulmonary Resuscitation 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!

Hold the back section on the mattress holder or in the case of model 2080 at the corner of the back section and pull the yellow lever on the left or right below the back section of the lying surface upwards to lower the back section quickly.

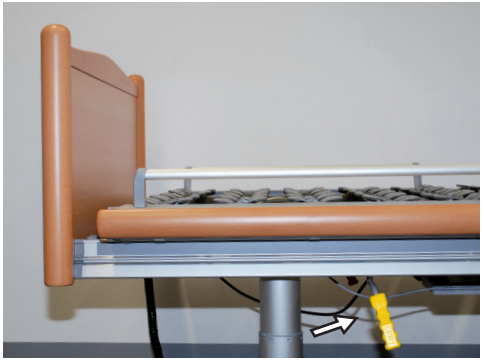
The back section can now be moved downwards quickly.

The lowering procedure can be interrupted by releasing the yellow lever.

⚠ **WARNING** The back section must always be held on the mattress holder or, in the case of model 2080 at the corner of the back section so that the bed is not lowered suddenly with the occupant/patient!

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

Yellow lever for mechanical rapid lowering of the back section for resuscitation:



The position of the upper leg lying surface can be adjusted using the hand control or the nurse keypad (option).

If necessary, disable the lock of the hand control or nurse keypad (optional).

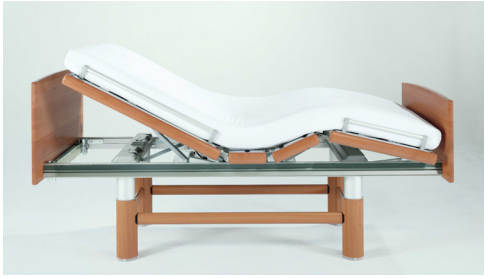
The upper leg section of the lying surface can be raised up to an angle of max. 51°.

The lower leg section can be moved manually to any position of maximum 16° angle by pulling on the mattress holder (or the lying surface on model 2080).

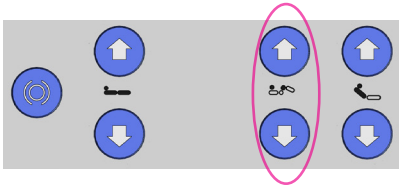
To lower the lower leg section, the mattress holder is pulled and the section lifted to the end stop and then lowered. The locking mechanism is disengaged automatically.

⚠ **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 side rails or are on top of them!

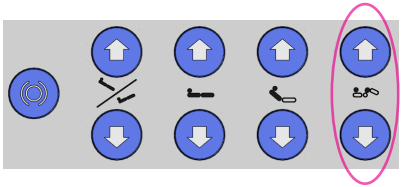
Upper leg section up / down



Upper leg section up / down



Hand control



Nurse keypad (option)

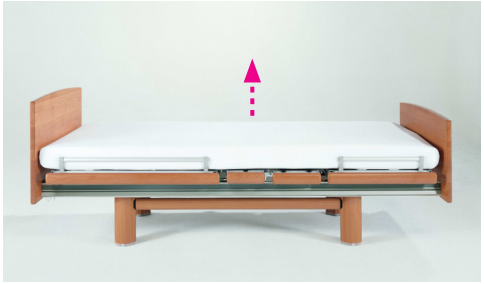
⚠ **WARNING "Risk of entrapment"** When the position of the upper leg section is being adjusted, there is a risk of entrapment between the raised side rail and the foot section.

Operation | Lying surface height

The position of the entire lying surface can be adjusted using the hand control or the nurse keypad (option).

If necessary, disable the lock of the hand control or nurse keypad (optional).

The lying surface height can be adjusted from approx 40 cm to 80 cm (optionally approx. 35 to 70 cm).

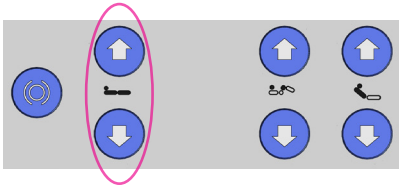


Lying surface up / down

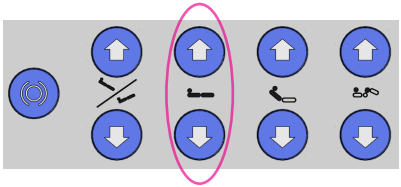
Lying surface up / down

WARNING To avoid dangers to the occupant/patient from falling, we recommend that the bed be lowered all the way except when delivering care.

DANGER Before lowering the bed, 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. The bed's position must be stable (castors raised) when the occupant/patient is getting in and out of the bed!



Hand control



Nurse keypad (option)

WARNING When the height adjustment mechanism is actuated with the side rails up, it must be ensured that the occupant/patient does not have any contact with the side rails, or that any parts of either the occupant's/patient's body or of other persons are sticking through the side rails!

Operation | Anti-Trendelenburg-positioning[1] and Trendelenburg-positioning[2]

Trendelenburg positioning can only be set using the nurse keypad (option).

If necessary, disable the lock of the hand control or nurse keypad (optional).

The Trendelenburg position can be adjusted up to an angle of 12°.

⚠ **WARNING** Since the Trendelenburg position depends on clinical indications, it must only be used with a doctor's approval.

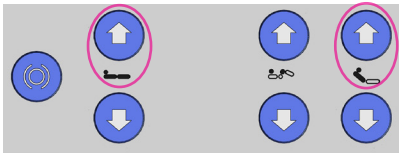
⚠ **CAUTION** If a fault occurs with the lifting function, or the mains power supply fails and the battery pack (option) is completely discharged, the Trendelenburg function cannot be engaged.The occupant/patient may have to be placed in a different bed. With the optionally-available battery pack, all of the bed's functions remain available to you even in the event of a power failure.

The lying surface is automatically returned to its horizontal position if it is moved to its highest or lowest position.

[1] Head end raised
[2] Head end lowered

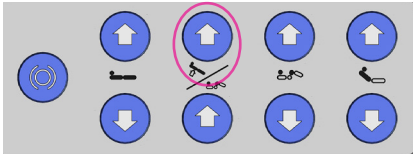
Operation | Anti-Trendelenburg-positioning[1] and Trendelenburg-positioning[2]

Anti-Trendelenburg positioning
*(Head end **raised**)*



Hand control

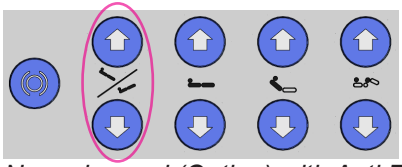
To get into
Anti-Trendelenburg positioning:
Press “Lying surface up” +
“Back section up” **simultaneously**



Hand control with Anti-Trendelenburg positioning (option)
(and Auto-Contour (option))

To get into
Anti-Trendelenburg positioning:
Press “Anti-Trendelenburg positioning”

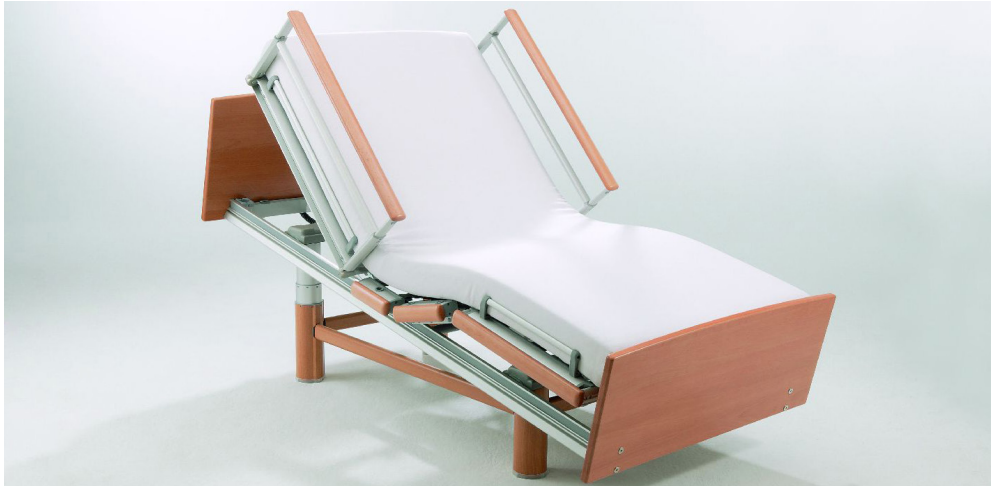
Trendelenburg positioning
*(Head end **lowered**)*



Nurse keypad (Option) with Anti-Trendelenburg positioning and Trendelenburg positioning (option)

To get into Anti-Trendelenburg positioning:
Press upper button “Anti-Trendelenburg positioning”
To get into Trendelenburg positioning:
Press lower butten “Trendelenburg positioning”

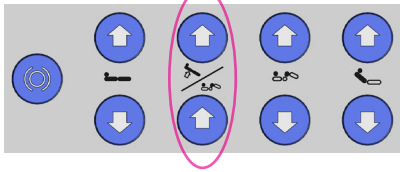
[1] Head end raised
[2] Head end lowered



Occupants/Patients who are unable to leave the bed either because their circulatory system is too unstable or they first have to be "taught" how to sit can gain a lot of benefit from the comfort seating position.

It causes them to adopt an active seated position in the bed.

Anti-Trendelenburg positioning



Auto-Contour

Hand control with Anti-Trendelenburg positioning (option) and Auto-Contour (option)

Adjusting the comfort seating position

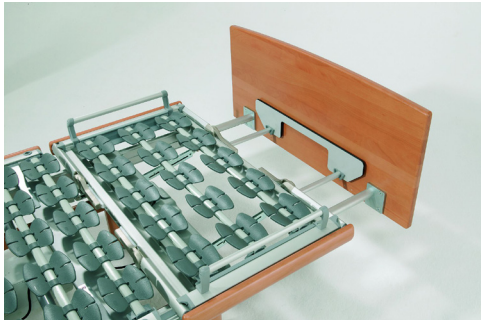
1. Move the back rest and the upper leg section upwards a little to a comfortable position.
   you can alternatively reach this position in a single step by pressing the Auto-Contour button .
2. Tilt the bed to the comfort seating position by pressing the Anti-Trendelenburg button .

Restoring the straight lying surface

To return to a horizontal lying position, move the lying surface and the back rest and upper leg section in any preferred order to their lowest position.

Model 3080

Beds can be extended by 28,5 cm using a dynamic bed extension (optional).
The bed extension is recommended for patients who are more than 185 cm tall.



To pull out the bed extension, pull the two pins located on the underside of the bed extension simultaneously downwards.

To pull out the bed extension, press the two lever buttons simultaneously downwards. When using the bed extension, a suitable mattress extension wedge must be used.

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

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

Cleaning and disinfection 1/2

To maintain the bed's functionality, it should be cleaned, disinfected and tested

- at regular intervals
- as required
- after every change of patient
- in accordance with the guidelines of the respective hygiene schedule

so that it can be used again immediately and without risk. Hazards may arise due to improper cleaning/disinfection of the bed. The level of disinfection required must be determined by the user!

As a general rule, only state-of-the-art disinfectants should be used.

The current healthcare standard can be found, for example, in the VAH List [from the German Association of Applied Hygiene], RKI [Robert Koch Institute] guidelines or also in the IHO List [from the German Industrial Association for Hygiene and Surface Protection]. Unless any specific ingredients which may NOT be used are given in the respective instructions for use, the disinfectants listed there may be used.

The disinfectants themselves should be used in accordance with the disinfectant manufacturer's instructions.
Therefore it is worth checking in-house hygiene protocols.

Due to the large number of available products, Völker GmbH cannot approve specific products and list them in the instructions for use.

Please observe the information provided by the cleaning product manufacturer.

Not following these instructions may lead to personal injury and material damage.

⚠ **WARNING**
"Danger of electric shock/fire and loss of function" The bed must always be disconnected from the power supply before being cleaned and disinfected.

Cleaning

Depending on the degree of soiling, we recommend cleaning the bed with a damp cloth or similar. For stubborn dirt or stains, a soft brush may also be used. Do not moisten the bed too much when cleaning.

Disinfection by wiping

The dilution ratio recommended in the relevant instructions for use by the cleaning product manufacturers must be used.

NOTE Solvents are not permitted.

- Abrasives, scouring pads or other scouring agents must **not** be used.
- Chlorine, formaldehyde, phenol-based products and other solvents (toluene, xylene or acetone) are **not** allowed.

The following information regarding cleaning products and disinfectants must be observed:

- the solutions for use must as a rule be freshly prepared.
- the concentrations quoted should be neither exceeded nor undershot. the so-called "shot" method must not

be used under any circumstances. Under no circumstances may users add cleaning products such as soap or surfactants at their own discretion (protein-related faults).

- with spray disinfectants containing alcohol, there is the danger of explosion and fire when used over a large surface.
- cleaning products must not contain corrosive or caustic ingredients.
- they must not contain any substances that will change the surface structure or the gripping properties of materials.
- lubricants must not be affected.
- the pH of the water must not be higher or lower than 6-8.
- the water must not exceed a total water hardness of 0.9 mmol/l (corresponding to 5 °dH).

The information provided by us does not exempt users from conducting their own investigations and tests, since the conditions (e.g. water hardness) can be different locally. No legally binding assurance of certain properties can be deduced from this information.

Cable plugs and the sockets of the control box, distributor box and battery are protected against splashes only when connected and when protected by the covers and blind plugs provided.

- Avoid the ingress of water and cleaning agents into unused connections.
- Labels and markings must not be cleaned with a brush or with high pressure.
- Dry the bed with special care and test it before re-use.
- Stubborn dirt or stains should be soaked before cleaning (please test first).

Spray lances and washing systems*

⚠ **WARNING**
Cleaning and disinfection with the spray lances of high-pressure cleaning equipment is **not** permitted.

Völker GmbH does not accept liability for damage sustained to the surface coating through the use of unsuitable detergents and disinfectants, incorrect mixing ratios or insufficient care of the beds.

Cleaning the hand control units/ keypads

To avoid cross-contamination between the patient and care staff, the hand control units and keypads must be cleaned daily.

*Please refer to the information on the type label to ascertain whether your bed is suitable for the washing system.

Staff training

Every person involved with maintenance or servicing must at least have read the safety notes for the respective bed model and be qualified in accordance with the relevant national regulations. The following applies for Germany: the staff requirements defined by the regulations governing the installation, operation, use and maintenance of medical devices must be ensured by the operator of the beds.

To guarantee a trouble-free operation of the beds, the instructions for use of the bed must always be accessible to the servicing staff.

Safety notes

During maintenance and technical checks, the following specifications must be strictly observed:

- The room's electrical installations must conform to all applicable safety standards and requirements, and the bed must be used accordingly.
- The castors must be raised (bed is fixed in position).
- The beds are not protected against explosion and must therefore only be maintained in an environment free from flammable substances and materials.

⚠ **WARNING** Before carrying out any repair work, always disconnect the mains plug **and** disconnect the bed from the battery pack (option)!

⚠ **WARNING** Maintenance and repair work should only be carried out after the bed has been disinfected.

⚠ **WARNING** Maintenance and repair work should only be carried out on an unoccupied bed. The occupant/patient may also have to be transferred to another bed before starting the work.

⚠ **WARNING** After maintenance (repair) work is complete, always check that the bed is functioning correctly. It must be checked that the bed can be used correctly without risk to the occupant/patient or care personnel.

The beds require 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 a regular, or at least once a year, technical check (incl. visual inspection and functional check) as described in the checklist**. Any discernible damage must be eliminated immediately.

After every lengthy period of non-use, a technical check must be carried out.

Period	Work to be carried out
Every 2 years *	Replace the 9 V block batteries (see below)
Annually	Technical check
After a lengthy period of non-use	Visual inspection and functional check
As required	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)

* as well as after every electrical emergency lowering.

Replace the batteries

To replace the 9 V block batteries, remove the two screws from the battery housing on the double drive.

Use only brand-name batteries, and dispose of spent batteries in an environmentally friendly way.

Battery compartment for beds built before April 2013

Battery compartment for beds built after April 2013 or for converted beds built before April 2013

Technical check 1/2

1. Visual inspection

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

2. Functional check of the side rails

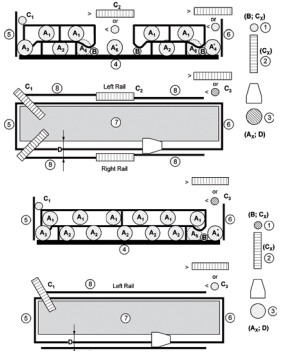
The side rails must be checked in accordance with DIN EN 60601-2-52. Please see the declaration of conformity supplied with the bed for which of the two standards should be used.

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 and tear on the side rails.

Check that the prescribed distances are maintained, even when the side rails are placed under load. All measurements of the side rail distances should be made in the flat lying surface position, since the dimensions given while the bed is otherwise positioned do not show less favourable conditions.

The measurement of A and D must be performed using a cone as defined in DIN EN 60601-2-52. The force used for measurement A must be at least 250 N.



3. Functional check of the brakes

Check that the brake is functioning correctly (safety, castors retracted and free running). Raise and lower the castors.

4. Functional check of the motors

Travel through the full adjustment range of each motor. Look out for any unusual noises, watch the speed, ease of running etc., and check that the selected function travels in the correct direction. Particularly ensure that the mo-

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	Not applicable	-
C_1	Distance between HEAD SECTION and SIDE RAIL	< 60 mm
$C_{2,3}$	Distance between divided SIDE RAIL and distance between SIDE RAIL and FOOT SECTION	< 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 edge of the SIDE RAILS over the mattress over at least 1/2 of the length of the LYING SURFACE	≥ 220 mm

Technical check 2/2

tor switches off automatically when it reaches its terminal position* (Function of terminal position switch).

5. Mains connection cable

Check

- the mains connection cable, incl. cable guides,
- the strain relief, including kink protection sleeve,
- the mains connection plug,
- the cable hooks

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 raster by manually moving the lower leg section to the individual positions.

9. Battery change

Please replace the 9-V block battery every 2 years as well each time the emergency lowering is activated.

Only use brand-name batteries and dispose of the old ones in an environmentally responsible manner (Replacing the battery/batteries).

10. Measuring in accordance with DIN EN 62353

The bed must be checked electrically in accordance with DIN EN 62353. The leakage current should be measured by means of alternative measurement. The max. measured value must be less than or equal to 500 µA. Note that the green button on the mains isolation must be pressed throughout the whole measurement.On beds with a potential cable connection (see sketch below), the impedance of the potential equalisation within the bed must also be measured. The impedance must be less than 0.2 Ω (I=5…25 A, R=U/I < 0.2 Ω).

11. Trapeze bar grab handle

Check whether the plastic and holding frame of the grab handle exhibit any damage and that the fixing rods on the trapeze bar are intact.

The handle of the trapeze bar and the fastening strap must be replaced in the following cycle:

- Every 5 years: handles and handles with roll function in nursing homes
- Every 3 years: handles with roll function in hospitals

12. 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 | 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 relevant natational regulations. The following applies for Germany: the staff requirements defined by the regulations governing the installation, operation, use and maintenance of medical devices must be ensured by the operator of the beds.

To guarantee a trouble-free operation of the beds, the instructions for use of the bed must always be accessible to the servicing staff.

NOTE Before carrying out any troubleshooting, check whether the bed is connected to the mains supply (the mains plug is in a live socket) and the battery pack (optional) is charged (the yellow LED flashes during the charging process at intervals commensurate with the charge level).

WARNING Before carrying out any repair work, always disconnect the mains plug and disconnect the bed from the battery pack (optional)!

Troubleshooting | Table of faults 2/3

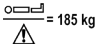
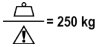
Fault	Possible cause	Troubleshooting
Adjustment of back or upper leg section not functioning.	(1) Hand control locked (2) Nurse keypad (optional) locked (3) The mains plug is not plugged in or there is no power to the socket and battery pack (optional) is discharged. (4) Bed taken out of service. (5) The hand control is faulty. (6) Nurse keypad (option) defective.	(1) Unlock hand control. (2) Unlock nurse keypad (optional). (3) Connect the plug or check the socket. Now press the green button on the mains isolation and then press any hand control function. (4) Press the green button on the mains isolation and then press any hand control function. (5) Replace hand control. (6) Replace nurse keypad (optional).
Adjustment of back section not functioning.	(1) CPR lever (optional) blocked.	(1) Check CPR lever (optional) for blockage and remedy, if necessary.

Troubleshooting | Table of faults 3/3

Fault	Possible cause	Troubleshooting
Adjustment of lower leg section not functioning.	(1) Lower leg section must be adjusted manually.	(1) Adjust lower leg section manually.
The bed cannot be adjusted in height.	(1) Hand control locked. (2) Nurse keypad (optional) locked. (3) The mains plug is not plugged in or there is no power to the socket and battery pack (optional) is discharged. (4) Bed taken out of service. (5) The hand control is faulty. (6) Nurse keypad (option) defective.	(1) Unlock hand control. (2) Unlock nurse keypad (optional). (3) Connect the plug or check the socket. Now press the green button on the mains isolation, and then press any hand control function. (4) Press the green button on the mains isolation, and then press any hand control function. (5) Replace hand control. (6) Replace nurse keypad (optional).

Appendix | Symbols used

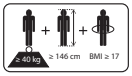
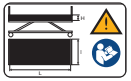
Symbols on the type plates

	Manufacturer
REF	Model name
SN	Serial number
MD	Medical Device
	Maximum permitted patient weight
	Safe working load
CE	The product meets the essential requirements of Annex 1 of EU-Regulation 2017/745.
	Type B applied part in accordance with DIN EN 60601-1
	Protection class II equipment, double-insulated
	Note the information in the instructions for use
	The device must be disposed of in accordance with EU Directive 2002/96/EC on waste electrical and electronic equipment
	Certified by TÜV SÜD (South German technical inspection association)

Warning signs and notes in the text

	**Warning sign** Information marked with this symbol must be read and strictly observed
	**NOTE** warns of possible material damage
	Warns of sources of electrical interference
	Protection class II or device with internal electrical power source
	Type B device
	Information arrow
	Direction arrows

Labels

	Mass of the mobile medical device including safe working load
	Description of an adult: Weight: min. 40 kg Height: min. 146 cm BMI: min. 17
	Please read and observe the notes and instructions for use of the mattresses
	Warns of crushing and trapping hazard
	Do not sit here!

Appendix | Technical data (standard design) 1/2

The details marked below with * are dependent on the length, width or model of the bed. The values specified relate to model 3080 in Design S.

External dimensions (W x L) for lying surface 90 x 200 cm * for lying surface 90 x 210 cm * for lying surface 90 x 220 cm * for lying surface 100 x 200 cm * for lying surface 100 x 210 cm * for lying surface 100 x 220 cm *	 approx. 98 x 210 cm approx. 98 x 220 cm approx. 98 x 230 cm approx. 109 x 210 cm approx. 109 x 220 cm approx. 109 x 230 cm
Clearance height	approx. 17,5 cm
Height of lower edge of head and foot section (min./max.) *	approx. 25 cm / 65 cm
Height of upper edge of lying surface (min./max)	approx. 40 cm / 80 cm (standard) approx. 35 cm / 70 cm (option)
Height of upper edge of head and foot section (min./max.) *	approx. 76 cm / 116 cm
Lying surface (4-part) *	approx. 90 x 200/210/220 cm approx. 100 x 200/210/220 cm
Recommended mattress dimensionsfor lying surface 90 x 200 cm	88,0 x 200,0 x 12,0 cm**

Volumetric weight of the mattress material	40 – 50 kg/m^3	
Dead weight *	approx. 96 kg	
Safe working load for the bed - built after April 2010 - built before April 2010	 230 kg 210 kg	
Maximum occupant/ patient weight (p. 8) - 2080 built after April 2010 - 3080 built after April 2010 - 2080 built before April 2010 - 3080 built before April 2010	<u>in application environment 1, 2</u> 165 kg 165 kg 145 kg 145 kg	<u>in application environment 3, 4, 5</u> 195 kg 195 kg 175 kg 175 kg
Safe working load for the trapeze bar holder	75 kg	
Safe working load for drip stands	2 kg / hook	

* * We recommend the use of Völker mattresses. If other mattresses are used, please observe the notes on p.22 .

Appendix | Technical data (standard design) 2/2

Rolling castors	4 pcs., Type: K-100/2x1, Halver castors or Blickle castors
Max. load on castors	100 kg (dynamic)
Mains voltage Power consumption Rated frequency	AC 230 V (EU version) AC 240 V (UK version) AC 115 V (US version) 173 VA 50 Hz (EU, UK version) 60 Hz (US version)
Primary fuse	2,0 A (EU, UK version) 4,0 A (US version)
Overload protection	Thermal switch 110°C/ Thermal switch 130 °C (EU, UK version) Thermal switch 70°C/ Thermal switch 115 °C (US version)
Hand control fuse	Type: Polyswitch RXE 025
Lying surface motor fuse	Type: Polyswitch, solid, 2.5 A
Lifting motor fuse	Type: Polyswitch, solid, 3.75 A per motor
Battery pack (option)	Type: 4 x 6 V block battery (lead gel) 1.2 Ah
Batteries	9 V block battery (alkali-manganese primary cell, commercially available), depending on battery compartment 1 or 4 items
Operating temperature range	+ 10 °C to + 40 °C
Transport / storage temperature range	- 20 °C to + 60 °C
Air humidity	30 % to 75 % rel.
Atmosphere range	700 hPa to 1,060 hPa
Operating volume	54 dB(A)
Operating height	Maximum 3000 m

Audible acoustic energy

Model 2080	66,1 dB (A)
Model 3080	62,9 dB (A)

Appendix | Classification

Protection against electric shock	Protection class II or device with internal electrical current source 
Protection type by housing as per EN 60529	IPX4 (protected against splash water) 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 (see relevant national regulation)
Grouping/Classification as per Regulation (EU) 2017/745 Appendix VIII Rule 13	Class I

Mode of operation	10% (2 min./18 min.) (Operating-time maximum 2 minute / Off-time 18 minutes)
Technical check	1x yearly

Appendix | Type labels

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

Raise the back section to read the type plates. See below for the symbols used.

Each bed can be clearly identified from the unique ID number on its type plate.

The structure of this ID number is as follows:

Appendix | Service life / disposal

Service life

The bed's expected service life is approx. 10 years.

Disposal information

- For all components to be disposed of, the operator must ensure that these are not infectious/contaminated.
- If the bed is scrapped, the wood, plastic and metal parts used must be separated and disposed of properly.
- If you have any questions, contact your local authorities, waste disposal companies or our service department.

Disposal of electrical parts

- This bed is electrically adjustable and classified as a commercial (b2b) electrical device in accordance with WEEE Directive 2012/19/EU (implemented in Germany in the Electrical and Electronic Equipment Act).
- The electrical components used are free of prohibited harmful constituents pursuant to the Restriction of Hazardous Substances II Directive 2011/65/EU.
- Replaced electrical components (drives, control units, hand control units, etc.) from these beds are to be treated and disposed of as electrical scrap in accordance with the WEEE Directive.
- The bed operator is legally obliged not to dispose of its electrical components in municipal collection points, but to send them directly to the manufacturer. Völker GmbH and its service partners will accept the return of these parts. Please contact our sales team in this regard.
- Our general terms and conditions apply to these returns.

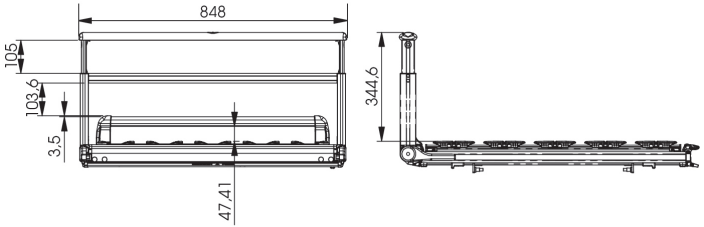
Disposal of batteries

- Any individual batteries which have been removed but are no longer usable must be professionally disposed of in accordance with Directive 2006/66/EC (implemented in Germany in the Batteries Act); they do not belong in household waste.
- Contact your local waste disposal companies or our service department.

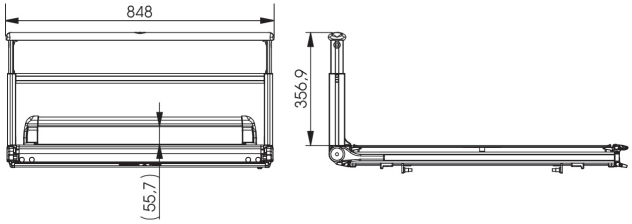
In other countries outside Germany/the EU, observe the national regulations in force there.

Appendix | Dimension sheet for divided side rails 1/2

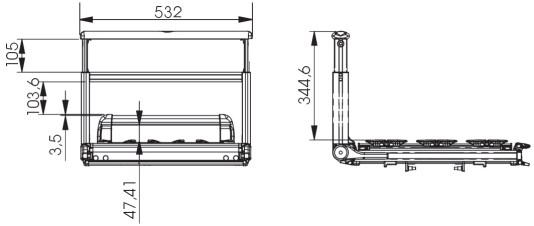
Divided side rails 34 - 35.5 cm (back section) with MiS® lying surface
(depending on the height of the lying surface elements)



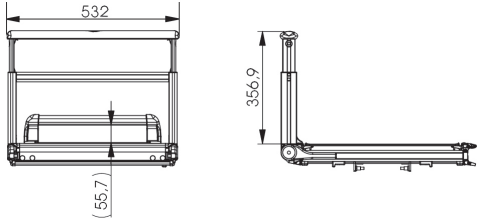
Divided side rails 34 - 35.5 cm (back section) with HPL lying surface
(depending on the height of the lying surface elements)



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



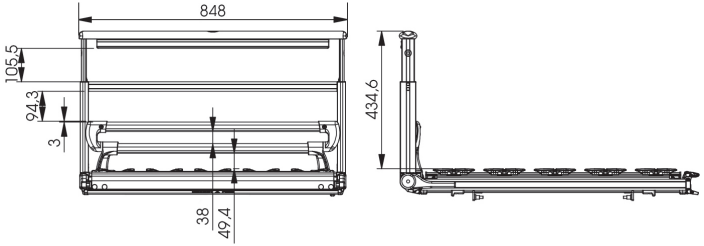
Divided side rails 34 - 35.5 cm (upper leg section) with HPL lying surface
(depending on the height of the lying surface elements)



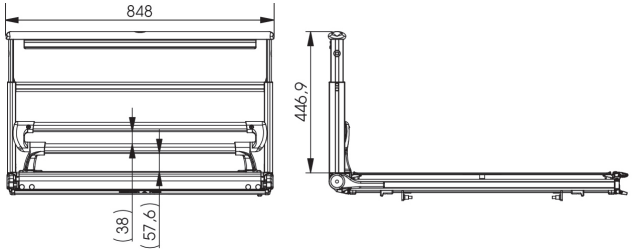
All dimensions in mm

Appendix | Dimension sheet for divided side rails 2/2

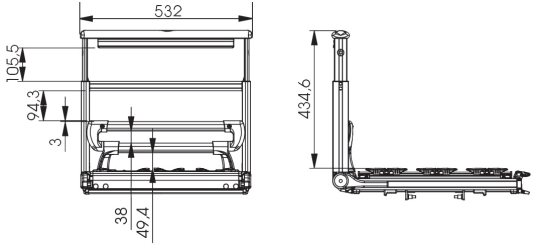
Divided side rails 43.5 - 45 cm (back section) with MiS® lying surface
(depending on the height of the lying surface elements)



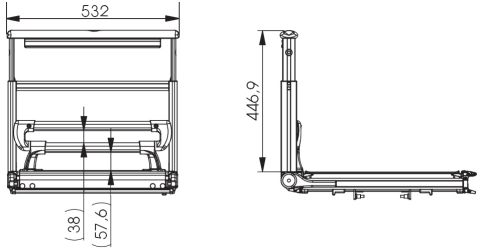
Divided side rails 43.5 - 45 cm (back section) with HPL lying surface
(depending on the height of the lying surface elements)



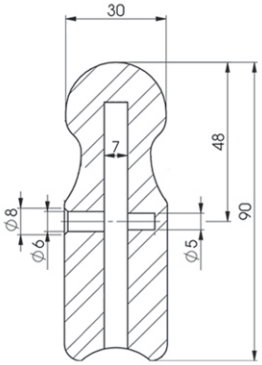
Divided side rails 43.5 - 45 cm (upper leg section) with MiS® lying surface
(depending on the height of the lying surface elements)

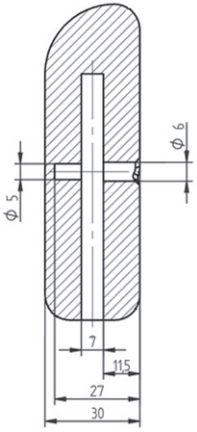


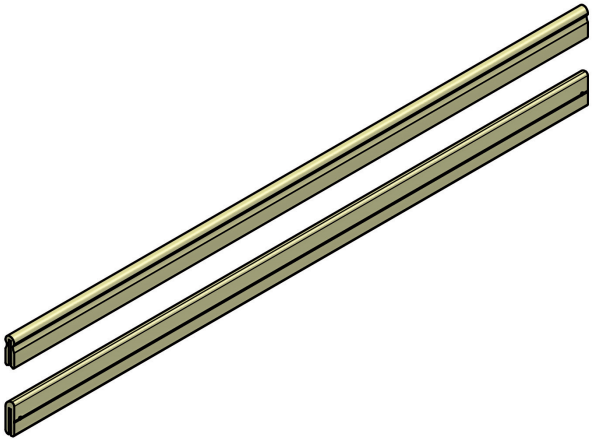
Divided side rails 44.5 - 45 cm (upper leg section) with HPL lying surface
(depending on the height of the lying surface elements)



Appendix | Dimension sheet for continuous rails







All dimensions in mm

Manufacturer's declarations 1/4

Guidelines and manufacturer's declarations — electromagnetic interference		
The bed is intended for use in an environment as specified below. The customer or the user of the bed must ensure that it is used in an environment of this type.		
Emitted interference measurements	**Compliance**	**Electromagnetic environment — guidelines**
HF emissions in accordance with CISPR 11	Group 1	The bed uses HF energy exclusively for its internal functions. Its HF emissions are therefore very low and it is unlikely that neighbouring electronic devices will be affected by interference.
HF emissions in accordance with CISPR 11	Class B	The bed is suitable for use in all facilities, including households and facilities directly connected to a public power grid that also supplies residential buildings.
Emissions of harmonics in accordance with IEC 61000-3-2	Class A	
Emissions of voltage fluctuations/ flicker in accordance with IEC 61000-3-3	Compliant	

Manufacturer's declarations 2/4

Guidelines and manufacturer's declaration — electromagnetic immunity			
The bed is intended for use in the electromagnetic environment specified below. The customer or the bed user must ensure that it is used in an environment of this kind.			
Immunity tests	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment — guidelines**
Discharge of static electricity (ESD) in accordance with IEC 61000-4-2	± 8 kV contact discharge ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air discharge	± 8 kV contact discharge ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air discharge	Floors must be made of wood or concrete, or should be covered with ceramic tiles. If the floor is covered with synthetic material, relative humidity must be at least 30%.
Electrical fast transients/ bursts in accordance with IEC 61000-4-4	± 2 kV 100 kHz repetition frequency	± 2 kV 100 kHz repetition frequency	The quality of the supply voltage must be that of a typical commercial, clinical or residential environment.
Surges in accordance with IEC 61000-4-5	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	± 0.5 kV, ± 1 kV differential mode ± 0.5 kV, ± 1 kV, ± 2 kV common mode	The quality of the supply voltage must be that of a typical commercial, clinical or residential environment.
Voltage dips, short interruptions and fluctuations in the supply voltage in accordance with IEC 61000-4-11	0% UT for ½ cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle at 0° 70% UT for 25 cycles at 50 Hz at 0° 0% UT for 250 cycles at 50 Hz	1% UT for ½ cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle at 0° 70% UT for 25 cycles at 50 Hz at 0° 0% UT for 250 cycles at 50 Hz	The quality of the supply voltage must be that of a typical commercial, clinical or residential environment. If the bed user requires continued function even in the event of interruptions to the energy supply, it is recommended that the bed be powered by an uninterruptible power supply or a battery.
Magnetic field at the supply frequency (50/60 Hz) in accordance with IEC 61000-4-8	30 A/m 50 Hz	30 A/m 50 Hz	Magnetic fields at mains frequency should correspond to the typical values found in the commercial, clinical or residential environment. Devices that generate magnetic fields should be used at a distance of at least 15 cm from the bed.
COMMENT: UT is the AC mains voltage before application of the test level.			

Manufacturer's declarations 3/4

Guidelines and manufacturer's declaration — electromagnetic immunity			
The bed is intended for use in the electromagnetic environment specified below. The customer or the bed user must ensure that it is used in an environment of this kind.			
Immunity tests	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment — guidelines**
Conducted HF interference on the power cable in accordance with IEC 61000-4-6 (no patient connections, DC connections or signal connections are present near the bed)	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio frequency bands between 150 kHz and 80 MHz 80% AM at 1 kHz	3 Vrms 150 kHz to 80 MHz 6 Vrms in ISM and amateur radio frequency bands between 150 kHz and 80 MHz 80% AM at 1 kHz	The bed is suitable for use in industrial, clinical and residential environments, but not in rooms containing magnetic resonance imaging (MRI) equipment or high-frequency surgical equipment. Electronic devices must be used at a distance of at least 30 cm from the bed. The field strength of fixed radio transmitters must be lower than the compliance level for all frequencies in accordance with an on-site evaluation. Interference may occur near devices bearing this symbol. 
Radiated HF interference in accordance with IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	10 V/m 80 MHz to 2.7 GHz 80% AM at 1 kHz	

Manufacturer's declarations 4/4

High-frequency electromagnetic fields in the immediate vicinity of wireless communication devices in accordance with IEC 61000-4-3	TETRA 400 (380 to 390 MHz, 27 V/m) GMRS 460; FRS 460 (430 to 470 MHz, 28 V/m) LTE Band 13, 17 (704 to 787 MHz, 9 V/m) GSM800/900; TETRA 800; iDEN 820; CDMA 850; LTE Band 5 (800 to 960 MHz, 28 V/m) GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1,3,4,25; UMTS (1700 to 1990 MHz, 28 V/m) Bluetooth; WLAN 802.11 b/g/n; RFID 2450; LTE Band 7 (2400 to 2570 MHz, 28 V/m) WLAN 802.11 a/n (5100 to 5800 MHz, 9 V/m)	TETRA 400 (380 to 390 MHz, 27 V/m) GMRS 460; FRS 460 (430 to 470 MHz, 28 V/m) LTE Band 13, 17 (704 to 787 MHz, 9 V/m) GSM800/900; TETRA 800; iDEN 820; CDMA 850; LTE Band 5 (800 to 960 MHz, 28 V/m) GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1,3,4,25; UMTS (1700 to 1990 MHz, 28 V/m) Bluetooth; WLAN 802.11 b/g/n; RFID 2450; LTE Band 7 (2400 to 2570 MHz, 28 V/m) WLAN 802.11 a/n (5100 to 5800 MHz, 9 V/m)	Devices that use the listed radio services must be operated at a distance of at least 30 cm from the bed.

COMMENT 1: The higher frequency range applies at 80 MHz and 800 MHz.

COMMENT 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic variables is affected by the absorbent and reflective properties of buildings, objects and people.

a The field strength of fixed transmitters, e.g. base stations for cordless phones and mobile radios, amateur radio stations, AM and FM radio and TV broadcasters, cannot in theory be predicted with any accuracy. A study of the site should be considered to determine the electromagnetic environment with regard to the location of the fixed transmitter. If the field strength measured in the location in which the bed is used exceeds the aforementioned compliance level, the bed must be monitored in order to verify that it is working as intended. If abnormal performance characteristics are observed, additional measures, such as reorientation or relocation of the bed, may be required.

Information on electromagnetic compatibility (EMC)

Electromagnetic compatibility (EMC) refers to the ability of a technical device to refrain from affecting other devices with unwanted electrical or electromagnetic effects and to resist interference from other devices.

Appropriate construction and design are key to ensuring the electromagnetic compatibility of electrical equipment. The documentation and confirmation of resistance to interference and sufficiently low levels of emitted interference are regulated by EMC guidelines and EMC standards.

To ensure fault-free operation of the bed, please note the following:

- In isolated cases, strong interference can cause failure of adjustment functions, unwanted bed movements, continued adjustment even after release of a button, unwanted changes to the lock status or loss of height information. If effects of this nature are observed, try to increase the distance between the bed and the source of the interference, and to power the device causing the interference and the bed from different circuits. Unwanted movements can be stopped by pressing any button on a control unit (provided it is unlocked). Incorrect locking statuses can be corrected by pressing the appropriate buttons. A loss of height Information indicates a failure of the height adjustment function. In this case, press the "Frame up" and "Frame down" buttons simultaneously and hold for more than 10 seconds until movement ceases. This reference run updates the height information.

⚠ **WARNING** The bed must not be placed directly adjacent to or stacked with other devices. If operation near to or stacked with other devices is necessary, bed operation must be monitored. Intended function in the employed arrangement must also be verified.

- Only Völker original electrical spare parts must be used for repair and service work. Otherwise the aforementioned requirements may not be met. A list of electrical components can be found in the service handbook.
- Devices that emit radiation, such as mobile phones, must only be used at a minimum distance of 30 cm from the bed.
- Please also note the guidelines in the manufacturer's instructions.

Info: You can find a printable version of this document on the Internet at www.voelker.de.

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

VÖLKER

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/hydrolift/support plate)	X*			
	CPR function (if existing)	X*			
	Brake (electrical or mechanical) - brake applied - free running (only for hospital beds and S 280/S 310/S 380/S 282/S 382 (Vis-a-Vis)) - steering position	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 960-1W/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 96096-0 · Fax +49 2302 96096-66 · E-mail: service@voelker.de

0001-EN-27.07.2017

Spare Part Order/Repair Order

Spare part order ☐ Repair order ☐

Address: _____

_____

Contact person: _____

Street address: _____

Zip code/city/country: _____

Telephpone number: _____

Customer number: _____

Customer order number: _____

Purchase order date: _____

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

Stamp

Völker GmbH
Service
Wullener Feld 79
58454 Witten/Germany

Tel.: +49 2302 96096-0
Fax: +49 2302 96096-66
E-Mail: service@voelker.de

Shipping address, if differentely from the billing address

Address: _____

Street address: _____

Zip code/city/country: _____

Attention of: _____

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

MODEL (Bed-type)	SERIAL NO./YEAR OF MANUFACTURE (Identification label inside of the bed-head)	SPARE PART DESCRIPTION/ERROR DESCRIPTION	ITEM NUMBER	QUANTITY	LOCATION OF THE BED (only for repair order)

Contact person / telephone number for repair orders: _____
(Please, to fill in the form use block letters)

0002gEN-27.07.2017

The Völker GmbH inform you, that within the warranty period damages on the devices will be charged by us, if we detect non-intended use.

Info: You can find a printable version of this document on the Internet at www.voelker.de.

Available accessories

If you have any questions about accessories for this bed or if you wish to order accessories, please contact Völker GmbH.

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