

# Installation Instruction and User Manual

**domiflex**

**.bock<sup>®</sup>**///

- . domiflex 2
- . domiflex 2 wash



Dear valued customer,

Thank you for purchasing a health care bed from Hermann Bock GmbH. You made a good buying choice because this health care product has a long product life and provides superior functionality and the highest level of safety. Our electrically operated health care beds guarantee optimal lying comfort and allow professional care at the same time. This product was designed with a focus on the elderly, whose confidence must be reinforced and whose life needs protection. With this health care product, we meet these requirements.

We urge you to prevent potential malfunctions and the risk of accidents by complying strictly with the safety and operating instructions and by carrying out the necessary maintenance.

Sincerely yours,

A handwritten signature in black ink that reads "Klaus Bock". The signature is written in a cursive, flowing style with a large initial 'K'.

Klaus Bock

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## 1 Preface and general instructions

The various bed systems from Hermann Bock meet special requirements for the use in care and treatment facilities as well as for home care. Reliable functionality and a long product life make each bed particularly valuable. Our beds need little maintenance with proper operation and care. Each bed from Hermann Bock must pass quality testing in a final inspection before it is shipped anywhere. The beds are manufactured according to the current standards for medically used beds and tested accordingly.

Our beds comply with Standard EN 60601-2-52:2010. The electrical building components comply with safety standard EN 60601-1:2006 for medical devices.

These standards divide the bed in various use areas:

1. Intensive care in a hospital; intensive care bed
2. Short-term care in a hospital or other medical facility; patient bed in the hospital
3. Long-term care in medical environment; stationary nursing bed
4. Home-care bed
5. Home-care nursing service

### 1.1 Intended use

The health care bed in elderly care or nursing homes or rehabilitation facilities improves the positioning of patients or others in need of care, who are 12 years of age or older and having a height of at least 150 cm. It is used to alleviate a disability and/or to facilitate the lives of people who are in need of care or to make the work of their caregivers easier. Furthermore, the health care bed was also designed as a convenient solution for home care of frail and elderly people as well as for home care of people with disabilities according to standard EN 60601-1-11:2010. Therefore, the health care beds are designed to be used for the application area 3 to 4. Any other use is considered improper and is excluded from a possible liability claim.

The Trendelenburg function is a special function that is provided upon request. It is not part of the standard equipment. It may be used under the supervision of medical professionals. The beds, which are determined for environment type 4, are equipped with a hand control. It cannot operate the Trendelenburg function.

The nursing bed is not suitable for use in hospitals. It is also not designed to transport patients. The beds must be only moved inside a patient's room, for cleaning purposes or to allow access to the patient.

**This user manual contains safety instructions. All persons working with the beds must be acquainted with the contents of these instructions. Improper operation can result in personal injuries.**

## **1.2 Definition of the user group**

### *Operator*

Operator (e.g. medical supply stores, specialist shops, facilities and budget holders) is any natural or legal person who uses the beds or has the bed used. The briefing on the use of the product shall generally be conducted by the operator.

### *User*

Users are persons whose training, experience or briefing on the product allows them to operate the health care bed or carry out works on it. The user is able to recognize possible hazards and/or to avoid them and to assess the health condition of the patient.

### *Patient/resident*

Persons in need of care as well as disabled and fragile people who are lying in the health care bed.

### *Qualified personnel*

Employees of the operator are referred to as qualified personnel. They are entitled to deliver the health care bed, assemble, dismantle and transport it, on the basis of their training or instructions. These persons must be instructed according to the guidelines concerning the cleaning and disinfection of the health care bed.

## **1.3 Safety instructions**

The intended use/operation of all moving parts is as important for the safety of the person in need of care as well as for the relatives and the caregivers/nursing staff to avoid potentially dangerous situations. This requires the correct installation and operation of the bed. The individual physique of the person in need of care as well as type and the extent of their disability must be taken into account by all means when operating the bed.

Avoid dangers, accidental motor adjustments and incorrect operation by using the disabling function. When the operator, e.g. the nursing staff/caregivers or the care providing relative leaves the room, the entire operating functions of the bed should be disabled. This is achieved by operating the key of the hand control. First, lower the lying surface to the lowest position and activate the lock function with a twist of the key (located in the keylock on the backside). Remove the key and check the function of the hand control for safety reasons. Make sure that it is indeed locked.

These recommendations apply particularly:

- if the person in need of care cannot operate the hand control safely themselves due to certain disabilities;
- if the person in need of care or the caregivers could be at risk due to those accidental adjustments;
- if the side rails are in a raised position and there could be danger of trapping and crushing;
- if children are unsupervised in the room with the bed.

Always make sure that the hand control (when not in use) is securely hooked in the support hook at the bed and cannot drop.

As a general rule, the bed should be operated by instructed nursing staff/caregivers, relatives or in attendance of instructed persons.

When adjusting the lying surface, it is particularly important to ensure that no limbs are placed in the side rails of the adjustment range. If the side rails themselves are adjusted, pay attention to the correct lying position of the person in need of care.

Prior to making any electrical adjustment, it should, as a general rule, be made sure that no limbs are positioned in the adjustment range between the chassis and the head- or foot part, especially that there are no persons/animals in the area between the floor and the raised lying surface. The danger of being crushed is particularly high in these areas.

The permitted person's weight depends on the total weight of the equipment that has been mounted to the bed (mattresses and other electronic medical devices). For the safe capacity, please refer to the type plate on the lying surface frame of the bed.

Attention: The beds come with no special connection options for a potential equalisation. Electrical medical devices connected to the patient's intravascular or intracardiac system must not be used. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1:2006.

#### **1.4 Service life / warranty**

This health care bed was developed, designed and manufactured for safe operation over a long period of time. With proper operation and maintenance, this health care bed has an expected service life of 7 to 10 years. The service life depends on operating conditions and frequency.

**Attention:**

Unauthorised technical changes to the product void all warranty claims.

This product is not approved for the North American market, particularly not for the United States of America (USA). Distribution and use of the health care bed in these markets, including through third parties, is prohibited by the manufacturer.

## 1.5 Type plate (example):

**Model: xxx**

Date of manufacturing: xx.xx.xxxx

Serial no. xxxxxxxx-xxx

xxx V ~ xx HZ max. x A

ED xx % (x min ON / xx min OFF)

Motor protection class IPX \*

 = xxx kg     = xxx kg

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D-33415 Verl / Tel. + 49(0)1805/262500

  
  
  
  
  
**Made in Germany**

- (1) Model designation
- (2) Manufacture date: Day, month and year
- (3) Serial number: Order number - running number
- (4) Mains voltage, mains frequency and power input
- (5) Duty cycle
- (6) Drive protection class
- (7) Maximum patient weight / safe capacity
- (8) Manufacturer
- (9) Symbols (located on the right side)

\* IPX 4 = Standard, IPX 6 = domiflex 2 wash



Conformity mark according to the medical device directive

**IPX4**

Protection of electrical equipment against splashing water

**IPX6**

Protection of electrical equipment against strong water jet (no high pressure)



Medical application part type B



Use only in dry rooms



Protection class II (double insulation, insulated for protection)



Within the European Union, this product must be disposed in a separate waste collection. Product may not be disposed via the separated municipal waste.



Symbol for maximum patient weight



Symbol of capacity



Symbol for observance of the user manual





## 2 General description of the functions

### Construction design and function

#### *The lying surface with 4 function areas*

The lying surface standard consists of a slatted comfort frame (as an option, it can be also provided with a metal lying surface or special suspension systems) and is divided into four functional areas: Backrest, solid seat, upper and lower leg rest.

The comprehensive lying surface frame is welded from a steel tube and stove-enamelled with a PES-powder coating. The variable height adjustment of the lying surface is electric and stepless. It is carried out by 24 V DC motors and controlled by the smooth keys of the hand control. The backrest can be adjusted electrically. The leg part consists of a foot support that is divided into two parts. With a touch of a button on the hand control, each individual position can be adjusted continuously. The electronic hand control also allows an automatic 3-way function to set a stretched leg elevation and the chest and the knee bending part. (Availability depends on the model.) The motor of the foot part can be replaced if necessary with a manual catch mechanism. In case of power failure, the back and/or leg part can be lowered through disconnecting the motor mountings (locking pin).

### *The chassis*

The height adjustment of the bed takes place through two height-adjustable manual controls. The surface of the tubular steel structure is stove-enamelled with a PES-powder coating.

### *The side rails*

Any health care bed can be equipped on both sides with integrated side rails at a special safety height. The side rails can be lifted and lowered through a rail. The sliding pieces run particularly smoothly and quietly with an impact damper, and the ends are fitted with attractive looking caps. The side rails can be easily operated through an ergonomically designed release button. Depending on the model, shorter or longer partitioned side rail variations are available.

### *Operation of the continuous side rails*

The release button for the adjustment of the continuous side rails is located on the upper side rail shaft in the guide rail (Fig. 1).

If lowering of the side rails is desired, reach with your fingers in the gripping groove of the upper side rail shaft, which is designed for this purpose, and lift the side rail slightly while pressing on the one-sided release button on the head or foot part (Fig. 2). The side rail opens at the corresponding place and can be easily lowered downwards as far as it will go (Fig. 3). The side rail is now diagonal. To lower the other side as well, carry out the previously described steps on the opposite end. The side rail is now in a low position.

If the side rails should be placed in the top position to aid in fall prevention, reach with the fingers in the centre of the upper side rail shaft of the gripping groove and pull the side rail upwards until you hear it click into place at both ends. The side rail is now in a pulled-up position.



Fig. 1



Fig. 2

The side rails serve first and foremost as an aid to fall prevention. If very thin persons in need of care are no longer sufficiently protected by the side rails, take additional protective measures, e.g. attach additional push-fit side rails padding (accessories). The distances of the continuous side rails must be less than 12 cm. When using the continuous side rails, they may not remain in a diagonal position.

### **Top tip by Bock**

When using mattresses of different thickness, the minimum height of 22 cm, measured from the top edge of the side rail above the mattress without compression, must be reached. An additional detachable rail (available as an accessory) must be used when using higher mattresses.

### **Hazard note by Bock**

- Use only original Bock side rails, which are available as accessories for every health care bed.
- Use only technically flawless and non-damaged side rails with the allowed gap dimensions.
- Make sure that the side rails are engaged securely.
- Before installation of the side rail and each new use, inspect all mechanical parts on the bed frame and side rails, which secure the side rails, for any possible damage.
- The operation of side rails should be done with great care. Fingers can be quickly pinched between the longitudinal pieces.

Fig. 1: Continuous wood and steel side rails, divided into two parts

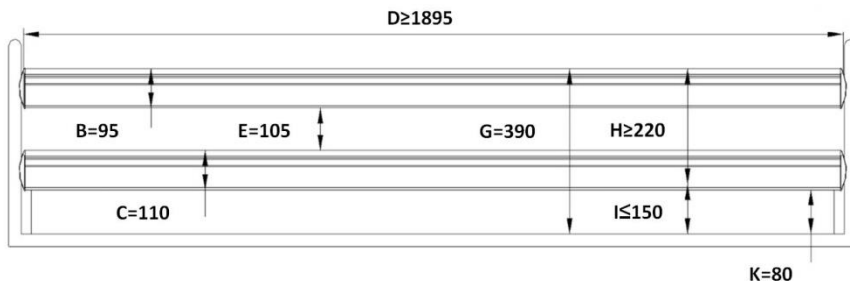
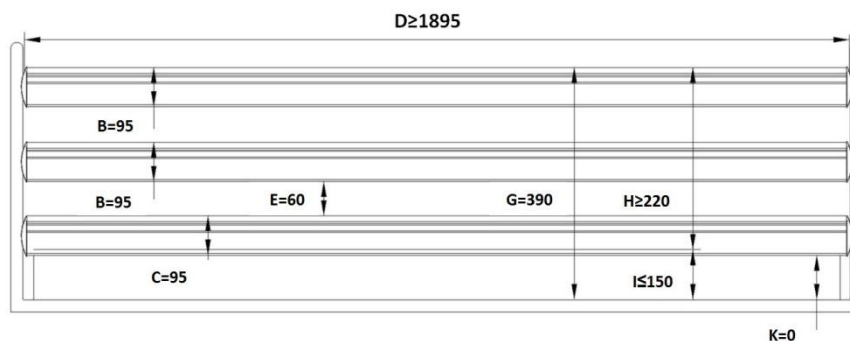


Fig. 2: Continuous wood and steel side rails, divided into three parts



All dimensions in mm.

(\*) Depending on the length of the lying surface. The dimension in brackets is optional.

#### Legend

- A: Distance between the head part and the side rail
- B: Height 1 of the side rail
- C: Height 2 of the side rail
- D: Width 1 of the side rail
- E: Distance between the elements within the side rail
- F: Distance between the divided side rails
- G: Distance between the lying surface and the upper edge of the side rail
- H: Height of the top edge of the side rail above the mattress without compression
- I: Thickness of the mattress for the intended use
- J: Width 2 of the side rail
- K: Smallest dimension between side rail and lying surface (or panel, if any)
- L: Distance between the foot part and the side rail

## Item numbers

Designation	item no.
Fig. 1: Continuous wood side rail, divided into two parts Wood side rail (set)	91907
Fig. 2: Continuous wood side rail, divided into three parts Wood side rail (set)	80410
Fig. 3: Continuous steel side rail, divided into two parts Steel side rail (set)	91908

## 3 Electric parts

### 3.1 Drive

The drive unit consists of individual drives. A switching power supply with a rectifier that converts the input voltage into low voltage power of 35 VDC (direct current) is part of the external control. The motors and the hand control function with this non-hazardous low voltage. The cables are double-insulated and the mains plug has a primary fuse.

Internal emergency lowering is carried out by loosening the locking pin on the motor mountings. Furthermore, power adjustment allows for constant speed of the functions. Therefore, the safety functions comply with protection class II and the moisture barrier protection type IPX4 (domiflex 2 Wash = IPX6).

The maximum duty cycle is specified on the (type plate) of the bed. For example: 10% (2 min. ON / 18 min. OFF) means that any electronic adjustment can be done within maximal 2 minutes. After that, the unit switches off for 18 minutes (protection against overheating).

If the maximum setting time of two minutes is exceeded by two minutes (e.g. someone plays continuously with the hand control), which could lead to overheating of the servomotors, the thermal fuse immediately shuts off the power supply to the bed. After a cooling down time of approx. one hour, the power will be again automatically supplied.

### 3.2 Level adjustment drive

The level adjustment of the bed takes place via two manual controls with built-in individual (DC) drives. Their adjustment range is defined by an integrated control limit switch. The level adjustment drive is connected to the control box via a helical cable.

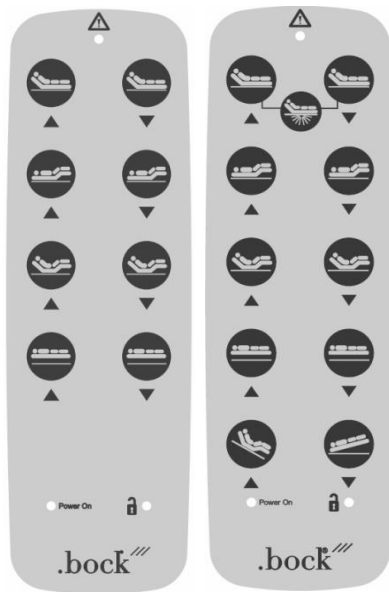
### 3.3 Lockable hand control (first-fault protected)

The base functions can be controlled safely through the eight extra large keys on the hand control. The individual keys are marked with corresponding symbols. The servomotors run until as long as a corresponding key is pressed and held. A coiled cable allows the necessary freedom of movement while operating.

With the rear-mounted suspension unit, the hand control can be attached to the side rail.

### 3.4 Hand control (symbols)

		Back part upwards
		Back part downwards
		Lower leg part upwards
		Lower leg part downwards
		Autocontour upwards
		Autocontour downwards
		Lying surface upwards
		Lying surface downwards
		Comfort sitting position up-wards *
		Head-lowering position (Trendelenburg)
		Reset
		Lightening
		Floor light Press keys "Back part up-wards" and "Back part down-wards" at the same time



Standard hand control with special functions

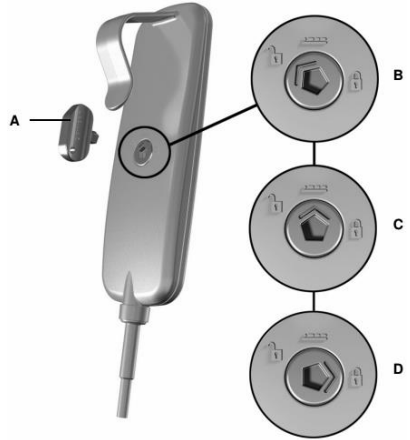
\* Comfort sitting position just goes up. All adjusted positions must be lowered separately.

#### Hazard note by Bock

Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.

### 3.5 Hand control (lock functions)

The hand control comes with an integrated disabling function that can be activated and deactivated with the corresponding key. To disable the entire electrical function, insert the key in the keylock on the backside and turn the lock function on or off with a corresponding twist of the key.



A: Socket key

B: Release hand control keys

C: Patient function, head-lowering position (Trendelenburg) locked\*

D: Release hand control keys

\* Special design

#### **Hazard note by Bock**

All drive components must not be opened!

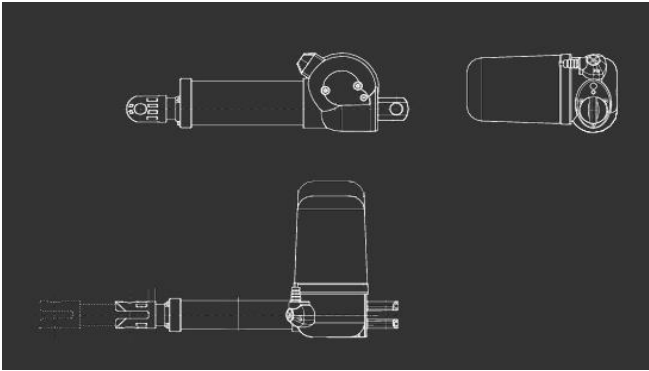
Troubleshooting or exchanging single electrical components may be performed only by special qualified personnel.

#### **Hazard note by Bock**

Simultaneous use of electrical appliances particularly in the vicinity of the operational bed may result in small electromagnetic interactions of these electric devices, e.g. static noise in the radio. In such rare events, increase the distance of the devices. Do not use the same socket or temporarily switch off the interference source and/or the disturbed device.

If the bed should be operated with electrical medical equipment (contrary to its intended use), the functions of the bed must first be disabled via the integrated locking function in the hand control for the duration of the application.





### 3.6 Caution: Electric drive

Hermann Bock calls the electrically operated nursing and therapy beds health care beds, because through their multiple functions, they allow the person in need of care to support the healing process mentally and physically and relieve pain at the same time. Electrically operated beds that are medical products need special care in regards to constant safety checks. This includes safety-conscious handling of the bed, daily inspection of electrical equipment and proper maintenance and cleaning.

To prevent damages to the cables, wiring should be conducted outside of the area in which damages could be caused. Furthermore, avoid touching the sharp parts. To prevent injury through an electric shock, avoid the possibilities of too high contact voltages. These circumstances may especially be the case if the power cable is damaged, if inadmissible and excessive leakage currents exist or if liquid was spilled in the motor housing, e.g. during improper cleaning. This damage can cause malfunction of the control, which could result in unwanted movements of single bed elements, posing a risk of injury for the operator and the person in need of care.

## 4 Drives

### 4.1 24 Volt drives

H. Bock GmbH equipped health care beds with the drive systems of the companies Dewert and Limoss.

### 4.2 Drive systems

Each drive consists always of four main components: Housing, Motor, Gear, Lift pipe and clevis. The housing principle of the individual drive guarantees the permanent function of all drive components. Due to a detailed interior structure, the construction of the housing interior creates an essential prerequisite for the precise integration of the drive technology. The individual drive is characterized through a particularly easy to follow assembly/disassembly design and also an easy installation of the control electronics. The drive has a primary fuse in the mains plug.

### 4.3 The external switch mode power supply

The plug-in part of the external switch mode power supply (SMPS) is an electronic transformer, which warms up only to a minimum degree under load and it is equipped with electronic performance monitoring. The result is a constant voltage up to the maximum load (no loss of speed) and a high level of protection against overloading. The external transformer ensures safety right from the socket because it converts the voltage directly into the safety low-voltage of 29 - 35 V. This is the voltage that operates the bed. Therefore, the health care bed has no components carrying 230 V. Only when using the hand control, the health care bed is subjected to a low-voltage of 29 - 35 V. It is connected via a plug coupling to the mains supply line feeder cable and can be replaced separately if defective.

The plug-in part of the external switch mode power supply complies with the future European directives for electrical household appliances. In standby mode, it also has a low energy consumption of maximum 0.5 Watt and can be used internationally with variable input voltages from 100 V to 264 V. Electromagnetic alternating fields are not measurable on the SMPS adapter and in operation still lower than mains isolation (due to the very small DC voltage).



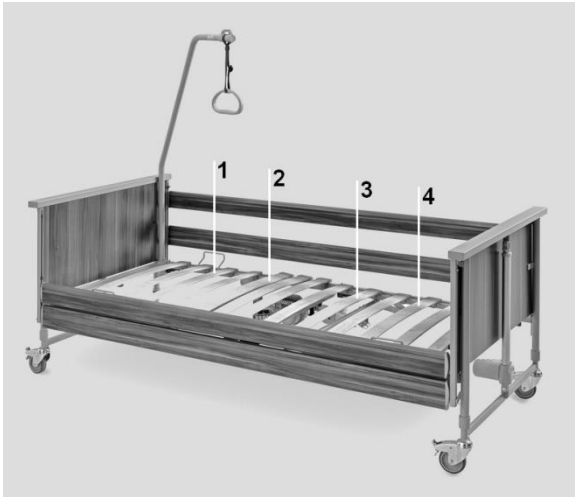
*The external switch mode power supply*

## 5 Assembly and operation

### 5.1 Technical data

Technical data		domiflex 2	domiflex 2 wash	
Lying surface dimension: cm		90 x 200	90x200	
Outer dimension: cm		103 x 213	103 x 213	
safe capacity: kg		190	190	
max. Weight of person: kg		155	155	
Height adjustment: cm		39 - 80	39 - 80	
<b>max. Angle of incidence to horizontal:</b>				
- back part		70°	70°	
- Lower leg part		18.5°	18.5°	
Trendelenburg position		15°	15°	
Side rail height from lying surface: cm		39	39	
<b>Side rail options:</b>				
- Continuous wood side rail		•	n. possible	
- Continuous steel side rail		•	•	
Lifter space: cm		>19	>19	
Sound level: dB(A)		< 65	< 65	
<b>Weights:</b>				
Total incl. continuous Wood side rail: kg		79.5	n. possible	
Total incl. continuous Steel side rail: kg		83.3	83.3	
Lying surface back part: kg		17.6	17.6	
Lying surface foot part: kg		14.1	14.1	
Control actuating device including motor (end piece): kg		17.9	17.9	
Continuous wood side rail: kg/set		12	n. possible	
Continuous steel side rail: kg / set		15.8	15.8	
<b>Electric data</b>				
Manufacturer	Limoss	Input voltage: V	100-240	100-240
		Frequency: Hz	50/60	50/60
		max. Power consumption: A	2.1 – 0.9	2.1 – 0.9
	Dewert	Input voltage: V	100-240	100-240
		Frequency: Hz	50/60	50/60
		max. Power consumption: A	2.0 – 1.2	2.0 – 1.2

All parts and data are subject to a constant further development and therefore may differ from the mentioned data.



- 1 back part
- 2 fixed seat part
- 3 Upper leg rest
- 4 Lower leg rest

## 5.2 Model series domiflex 2

Domiflex model series 2, consisting of models domiflex 2 and domiflex 2 wash were specifically designed for the requirements of daily use of the product as part of home care. The above mentioned models provide high comfort to frail people, patients who need care and people with disabilities. These models offer high lying comfort and support through easy operation as well as optimal care. Model series domiflex 2:

- > is not suitable for use in hospitals.
- > is not suitable for patient transport. The beds must be only moved for cleaning purposes inside the patient's room or to allow access to the patient.
- > is suitable for persons in the need of care who are at least twelve years old and 150 cm tall.
- > under certain circumstances can be used (if necessary) for medical purposes with other electric medical equipment (e.g. suction devices, ultrasonic humidifier, food systems, anti-bedsore systems, oxygen concentrators and similar devices). In this event, disable all bed functions for the duration of the application via the integrated disabling function.

### Attention:

The bed has no special connection options for a potential equalisation. Electrical medical devices connected to the patient's intravascular or intracardiac system must not be used. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1:2006.

## Making model series domiflex 2 ready for use

Remove all packaging from the bed and place bed on a free and flat surface.



Remove the side rails and the divided lying surface from the transport bracket and put aside.

Tilt the end pieces with the connected transport bracket on an end piece. To protect the surface, lay a blanket or cardboard underneath.



Loosen the tool-



free connection.



Stressed

Released

Remove the upper end piece as well as the transport bracket.



Place the end piece with the blue marking on the motor flat on the floor. Next, insert the frame of lying surface head part on the mounting latches. (You can recognise the head part easily by the round mountings for the lifting pole).



Create a solid connection by fastening the *push-and-ready* handle.

Insert the frame of the lying surface foot part onto the already assembled frame of lying surface head part.

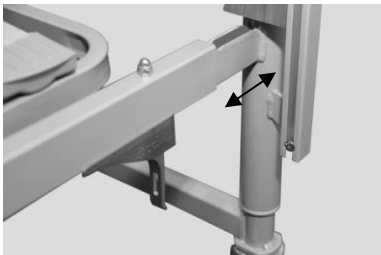


Create a solid connection by fastening the *push-and-ready* handle.

Plug the plug connector of the drive motors in the sockets of the control box. (Observe colour coding.) Then turn the mounted lying surface with the head end piece so that the head end piece is in a vertical position.



Push the mountings at the foot end piece into the lying surface. Do not push as far as it will go, allow 5 cm protrusion.



Insert the continuous wood or steel side rails at the head end piece in the mountings.

Install the side rails in diagonal position on the side rail mountings as shown in the picture. Note the markings of side rails as they fit only on the corresponding position, either up or down. Next, slide the upper side rail on the mounting of the foot end piece and connect in a longitudinal direction. Install the other side rail too.



Push the foot end piece into the lying surface as far as it will go and fasten the *push-and-ready* handle.



The plug connector of the drive motors and the hand control are colour coded. Insert them into the corresponding socket of the control unit. Next, tighten the strain relief cap again. The blue marked plug connector must be located on the end piece of the head part.



### **Hazard note by Bock**

Check all screw and push-and-ready connections again before operating the bed.  
Is the clamping effect of the 6 eccentric clamps sufficient? If not, the lock nut possibly could use a bit more fastening!

### **Hazard note by Bock**

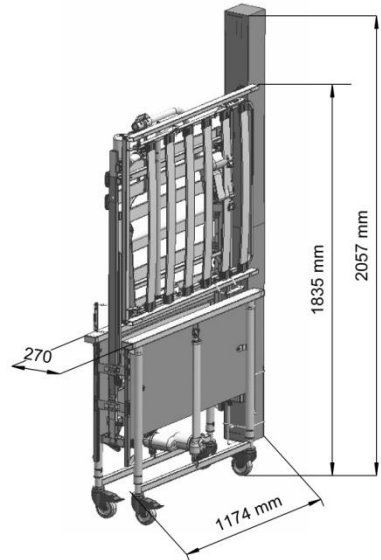
Do not squeeze/crush the cables. Adjustment of moving parts may only be used for the intended use. Hermann Bock GmbH assumes no liability for unauthorized technical changes.

### 5.3 Transport system

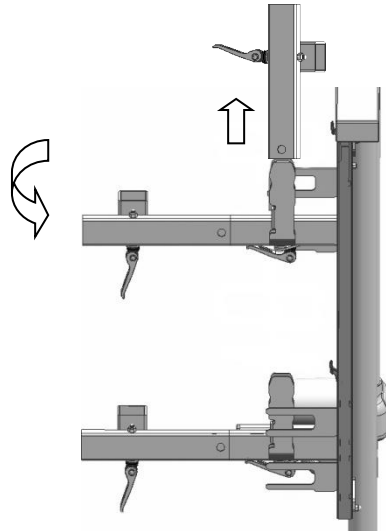
Versions:

Standard = 3 health care beds on one pallet.

Transport system to be changed to the VAN or Wash version.

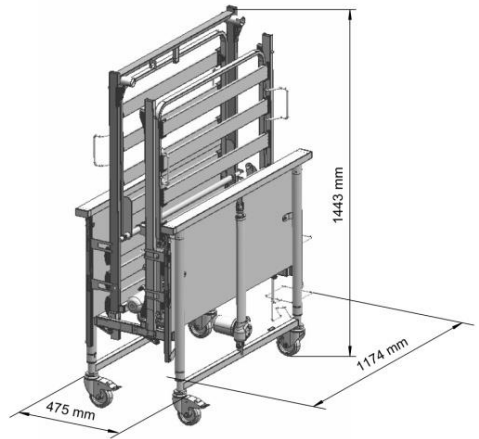


To change the standard transport bracket to the VAN or Wash version, loosen the lower horizontal push-and-ready handle and pull the end pieces on both sides approx. 2 cm from the connector. Remove the attached foot and head part frames and one end piece. Next, pull the “long connectors” from the brackets to the top and insert them horizontally in the “short connectors”. Make sure that the welded connections point towards the side on which the wire basket for the side rails is located. Attach the previously removed end piece back to the connector and establish a solid connection with the push-and-ready handles. First, attach the foot part frame and then the head part frame to the transport bracket. The sprung wooden slats must show in the cross direction to the end pieces and the head and foot support must be placed with the bended end upwards.



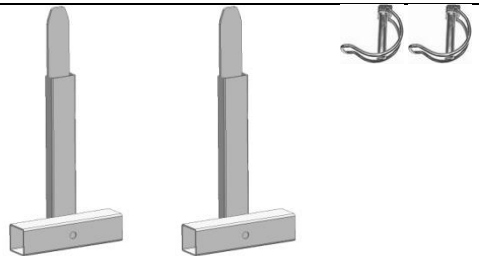


Version: VAN or Wash  
Depending on the available height,  
transport the lifting pole and the side rails  
separately from the bed.



Version: Eco = 3 health care beds on one  
pallet.  
NOT repositionable.

Can only be used for transport on pallets  
with appropriate strapping.



### **Hazard note by Bock**

Do not try to fix failures on the electrical equipment itself. It could be fatal! Either call the customer service of Hermann Bock GmbH or an authorised/licensed electrician who conducts the troubleshooting in compliance with all relevant VDE regulations and safety regulations.

Clean and disinfect the bed before using it again. Also, at the same time, perform a visual inspection to check for any mechanical damages. You will find details hereto in our Safety Guidelines.

## 5.4 Emergency lowering - back part or foot part

In case of power or drive system failure, you can lower the elevated back part manually.

**Must be carried out always by two people!**

One person lifts the back part slightly (to take pressure off) and holds it in this position. As next step, the second person removes the locking pin from the motor.

The motor is now separated from the back part and can be swivelled downwards.

Once the second person has left the danger zone, the first person can lower gently the back part.

Hold the back part by all means until it is fully lowered.



### **Hazard note by Bock**

Emergency lowering may be only carried out in an emergency by people who safely master this operation.

## 5.5 Disassembly

Pull out the mains plug before disassembly. Disassembly of domiflex 2 takes place in reverse order of the assembly (see manual).

### Change of location

- If the bed must be moved to another location, please follow these safety instructions:
- Bring the lying surface to the lowest position.
- Before proceeding pull out the mains plug and attach with the suspension device to the side rail or the end piece to secure the power cable against falling and being crushed by anything. Make sure that the cable is not dragged over the floor.
- Before inserted the mains plug again, inspect the power cable visually for mechanical damage (dents and kinks, abrasions and bare wires).
- Place the power cable in a way that it will not be rolled over or strained during the operation of the bed or could be damaged when inserting the mains plug again.

## 5.6 Transport, storage and operating conditions

	Transport and storage	– Operation
Temperature	0°C to +40°C	10°C to +40°C
Relative humidity	20% to +80%	20% to +70%
Air pressure	800hPa to 1060hPA	

## 5.7 Function notes

To keep the bed in one location, you must block the brakes on castors of the chassis. To accomplish this, use your foot to move the locking lever on the chassis downwards.

If necessary, the integrated side rails must be pulled up until they lock into place. With different mattress thicknesses, the minimum height must not be below 22 cm, taken from the upper edge of the side rail above the mattress excluding any compression (if the minimum height is not observed, we recommended the installation of a third detachable rail).

## 5.8 Disposal

Each of the components made of plastic, metal and wood are recyclable and can be disposed/recycled in compliance with the relevant legal provisions. Please note that electric adjustable health care beds or nursing beds are considered commercially used electronic scrap according to the WEEE-EC directive 2012/19/EC (b2b). All replaced electrical and electronic components of the electrical adjustment system must be disposed

properly in accordance with the requirements of the Waste Electrical and Electronic Equipment Act (in short: ElektroG). When disposing components, the operator has to make sure that none of the replaced and disposed components are infectious or contaminated.

## 5.9 Troubleshooting

This overview helps you to detect and correct malfunctions on your own and explains, what kind of malfunctions require the consultation of suitably qualified service personnel.

Malfunction	Potential causes	Remedy
The drive units cannot be controlled via the hand control	Power cable is not connected	Insert power cable
	No voltage in the socket	Check the socket or the fuse box
	Plug connector of the hand control not fixed firmly	Check the plug-in connection on the motor
	Hand control or drive unit defective	Notify the operator or Bock customer service
	Disabling function or control box in the hand control activated	Disabling function or control box in the hand control deactivated
When buttons are pressed, the drive units stop after a short time	There is an obstruction in the adjustment range	Remove obstruction
	The safe capacity/working load has been exceeded	Reduce the load
The drives stop after a longer adjustment time	The adjustment time or safe capacity/working load has been exceeded and the polyswitch in the transformer of the control unit has responded to increased heat	Allow the drive system to cool down sufficiently for at least one minute
Opposite functions when operating the hand control	Motor connector switched internally	Notify the operator or Bock customer service
Individual drive units run in one direction only	Hand control, drive unit or controller defective	Notify the operator or Bock customer service
Drive units stop and bed remains in a tilted position	Constant operation of adjustment functions	Move lying surface in bottom or top position as this will straighten it again horizontally. Activate disabling function in hand control

## 6 Accessories

As it is our goal to satisfy every requirement of the person in need of care, Hermann Bock offers practical and independence promoting accessories. The installation is done in a quick and easy manner using the fixing points on the bed that have already been prepared for this purpose. It goes without saying that every element of our additional equipment range meets the special quality and safety standards of Bock. In addition to the standard accessories included in the basic equipment, the customer can also choose from our variety of accessories, which is available for each bed model. These optional accessories vary depending on the bed model. They range from technical elements around mattresses up to the occasional extra bed. A wide offer of wooden finishes and a variety of colours allow for the harmonious integration of each health care bed with any kind of furniture.

### 6.1 Special dimensions

Special dimensions make up an essential part of the manufacture at Hermann Bock.

Optimal lying comfort for persons in need of care who have a particular physique can only be achieved by means of custom-built models. With its customized models, Hermann Bock enables customers to have their health care bed tailored to fit the individual physical requirements of the person in need of care. For body heights up from 190 cm, Hermann Bock recommends the use of a bed extension that allows an extension of the lying surface to a length of up to 220 cm. That way a high degree of lying comfort can also be ensured for taller persons while the functionality remains the same.

#### **Hazard note by Bock**

Do not try to fix failures on the electrical equipment itself. It could be fatal! Either call the customer service of Hermann Bock GmbH or an authorised/licensed electrician who conducts the troubleshooting in compliance with all relevant VDE regulations and safety regulations.

#### **Top tip by Bock**

The representative of the service hotline of Hermann Bock are looking forward to informing you about the best retrofitting solution for your bed. Hotline no. 0180.5262500 (14 cents/min. for calls from landline phones, 42 cents/min. for calls from mobile phones).

A wide product range of auxiliary furniture complements the various bed models up to the complete interior design of your home. This combination creates a care and living comfort resulting in perfect harmony.

## 6.2 Assembly – bed extensions

The delivery for a lying surface extension consists of the following parts:

- 2 adapter unit for the left and right foot part
- 1 extension piece for the foot part
- 1 set side rails

How to assembly in the simplest way:

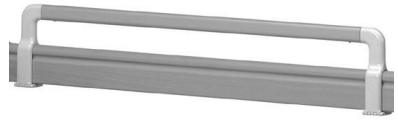
1. Remove the mattress from lying surface.
2. Loosen the foot end piece and pull slightly from the lying surface.
3. Dismantle the side rails.
4. Remove the foot end piece.
5. Plug adapter units into the frame of the lying surface at the foot end and fasten with the push-and-ready handle.
6. Hang extension piece in the lower leg bracket.
7. Do not slide the foot end piece further than the centre of the frame of the lying surface.
8. **IMPORTANT:** Make sure to read the labels attached on the top and bottom of the side rails so these may not be confused with each other.
9. Hook the side rails into the pre-assembled metal guides and connect them.
10. Push the end piece into the lying surface as far as it will go and fasten the push-and-ready handle.

### **Hazard note by Bock**

When using accessories on the bed or medically necessary devices as infusion stands in close proximity to the bed, ensure particularly that there are no risks of crushing or shearing for the caregiver when adjusting the back and leg rests.

### 6.3 Assembly – accessories

The following standard equipment can be combined with the bed models domiflex 2 and domiflex 2 wash:



#### Side rail extension

Scope of delivery includes: Fully assembled side rail extension

- Open the plastic cap, plug in the side rail extension, position it in the centre and close the cap.

Please make sure that the release button of the side rail extension faces outwards.

Important note:

The side rail extension from Bock are designed for the use along with all wooden side rail models from Bock. Bock assumes no liability for damages arising from the use in combination with third-party products.

#### Lifting pole with triangle handle, 5.5 kg

The capacity of the lifting pole is 75 kg.

Scope of delivery includes:

Lifting pole with hook-up loop, 1 piece

Triangle, 1 piece

- Place the lifting pole with triangle handle in the provided loop at the head part and adjust it accordingly. Next, hang the triangle into the hook-up loop.

- Use only mattress with a required mattress height as described by company Bock. You find this information in section 6.4.



**ATTENTION:** The lifting pole with a triangle handle must not swivel outside of the lying surface.

When used in line with its intended purpose, the service life of the triangle handle should at least last 5 years. If a lifting pole with triangle handle installed to the bed, it must be tested at each safety technical control.

#### **Hazard note by Bock**

For safety reasons use only original Bock accessories when furnishing your health care bed further. Those accessories must be approved by company Bock for the respective bed model. You will find a detailed overview of accessories and extras for your bed in the separate datasheet. Hermann Bock assumes no liability for accidents, damages and hazards arising from the use of other accessories!

### Side rail padding, 1.4 kg

Delivery includes:

1 piece covering material

1 piece padding

- Open zipper of the padding and pull padding from the top over the side rails. - Pull the foam padding from the inside of the bed into the fabric and close the zipper and/or the hook and loop fastener.



### Tray, 4.0 kg

Delivery includes: Tray, 1 piece

- The tray is applied to the side rails and prevented from getting out of place using two distance pieces.



### Universal clamp, 0.6 kg

Delivery includes:

Clamp, 1 piece, fastening ring, 1 piece

The universal clamp is a special holding appliance that provides flexible positioning of the modular functional equipment.

It is optionally possible to attach fixtures for urine bottles, infusion systems or a lamp on this clamp.

Furthermore, the universal clamp can be shifted along the side rails according to preference or requirement. The universal clamp is clamped onto the upper side of the side rails and fixed with the fastening ring.



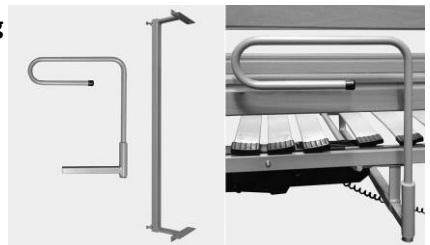
### Assist handle with cross-bar for actuator beds 3.0 kg

Delivery includes:

Assist handle, 1 piece

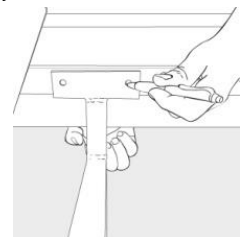
Support cross bar, 1 piece

Screws 4 mm, 4 pieces



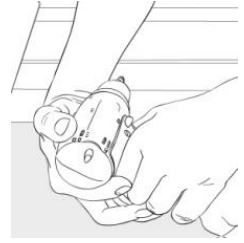
*Left: Scope of delivery, right: completely mounted assist handle*

Hold the support cross bar to the frame of the lying surface and mark with a pen the drill holes on the frame.

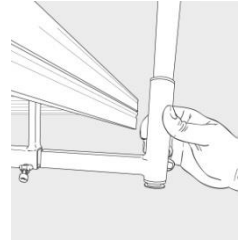




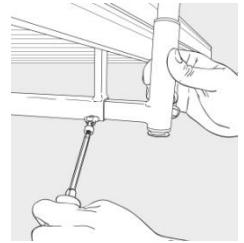
Drill holes into the previously marked spots (3.5 mm) of the lying surface frame.



Use the provided screws to fasten the cross-bar to the lying surface frame.



Push the assist handle into the support cross-bar, adjust it to the desired position and fasten it tightly.



## 6.4 Mattresses

In general, foam and latex mattresses are suitable for the Hermann Bock health care beds. A volumetric weight of at least 35 kg/m<sup>3</sup> is required along with the dimensions of 90 x 190 cm, 100 x 190 cm, 90 x 200 cm and 100 x 200 cm.

- The max. height with steel-, aluminium-, spring wood lying surfaces must not exceed 15 cm
- Lying surfaces of spring systems may not exceed a height of 12 cm.

As a general rule, the mattress height must not be less than 10 cm.

An additional detachable rail (available as an accessory) must be used when using higher mattresses. When using foam mattresses, we recommended the use of a cut foam mattress to allow a better combination with the lying surface.

## 7 Cleaning, maintenance and disinfection

The individual bed elements consist of high quality materials. The surface of the steel tubes is covered with a durable PES-powder coating. All surfaces of the wooden parts are surface-sealed with an ecologically coating that is low on harmful substances. All bed elements are easy to clean and cared for using wipe and spray disinfection means according to the applicable cleaning requirements with respect to the various areas of application. Observing the following care instructions will retain the usability and visual appearance of your health care bed for a long time to come.

### 7.1 Cleaning and maintenance

#### *Steel tubes and vanished metal parts:*

Please use a wet wipe and a regular mild household detergent for the cleaning and care of these surfaces.

#### *Wooden-, decorative-, and plastic elements:*

All standard furniture cleaners and cleaning detergents can be used. Using a wet wipe without detergent additives for the cleaning of the plastic elements should generally be sufficient. For care of the plastic surfaces use a product that is specifically suitable for plastics.

#### *Drive:*

To prevent the intrusion of moisture into the motor housing, we recommended using only a damp rag to clean outside housing.

#### *Spring systems ripolux neo:*

Use a damp rag without adding any detergents, or, if deemed necessary, a detergent that is exclusively suitable for plastics and clean the spring elements made of plastics. In case of heavy contamination, remove the spring elements from the supporting elements and the supporting elements from the frame of the lying surface. The dismantled plastics elements can be rinsed or spray-washed with hot water to get them clean. For the disinfection, the components should be sprayed with a detergent suitable for plastics. Most of the moisture drips off the plastic surface by slightly shaking it, while the rest will dry on its own within a very short time. Remount the elements after they have completely dried. If required, you can also remove each of the individual lying surface elements completely from the frame to clean them.

#### **Hazard note by Bock**

Clean and disinfect the bed before using it again. At the same time perform a visual inspection to check for any mechanical damages.

## 7.2 Disinfection

All methods in accordance to the standard EN 12720 can be used for the wipe disinfection. Use only mild and gentle disinfection methods to retain the material resistance of the plastic elements such as the drive housing, decorative elements, ripolux and ripolan springs. Concentrated acids, aromatic and chlorinated hydrocarbons as well as detergents containing highly concentrated alcohol, ether, ester and ketone may damage the material and should therefore be avoided.

## 7.3 Avoidance of hazards

Please make sure to consider the following guidelines with respect to the electrical component parts of your health care bed. These guidelines are very important to avoid hazards related to cleaning and disinfection. Non-observance of these guidelines may result in considerable damage of the electrical lines and the drive.

1. Pull the mains plug and position it in such a way that contact with excessive amounts of water or detergents can be excluded.
2. Check all plug-connections for correct position according to the instructions.
3. Check the cables and electrical component parts for damage. Should you detect any damage, do not perform any cleaning operations but first have the defects repaired by the manufacturer or an authorised/ licensed electrician.
4. Before starting the operation, check the mains plug for residual moisture and dry or blow out the device, if necessary.
5. On any suspicion of the intrusion of moisture into the electrical components, disconnect the mains plug immediately and do not re-establish the connection. Put the bed out of operation immediately, attach an appropriate visible label and contact the manufacturer/supplier.

## 7.4 Cleaning in cleaning facilities

Cleaning in cleaning facilities is only possible with the model domiflex 2.

See the separately available brochure. (Item no. 890.02160)

### **Hazard note by Bock**

Use of abrasive cleansers and/or detergents containing grinding particles, cleaning pads or stainless steel cleaners for the cleaning is absolutely not recommended. Neither use organic solvents such as halogenated/aromatic hydrocarbons and ketones nor detergents containing acid or alkaline.

Never clean the bed using a water hose or high-pressure cleaner as this might lead to the intrusion of fluid into the electrical component parts, which causes malfunctions and hazards.

## 8 Guidelines and manufacturer's declaration

### Electromagnetic emission

The *medizinisches Bett* is intended for use in the electromagnetic environment specified below. The customer or the user of the *medizinisches Bett* should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11 (partly)	Group 1	The medical used bed uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11 (partly)	Class B	The <i>medizinisches Bett</i> is suitable for use in all establishments other than domestic and those directly connected to the public-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

### Electromagnetic immunity


The *medizinisches Bett* is intended for use in the electromagnetic environment specified below. The customer or the user of the *medizinisches Bett* should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrostatic transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	< 5 % $U_t$ (>95 % dip in $U_t$ ) for 0,5 cycle 40 % $U_t$ (60 % dip in $U_t$ ) for 5 cycles 70 % $U_t$ (30 % dip in $U_t$ ) for 25 cycles < 5 % UT (>95 % dip in $U_t$ ) for 5 sec	< 5 % $U_t$ (>95 % dip in $U_t$ ) for 0,5 cycle 40 % $U_t$ (60 % dip in $U_t$ ) for 5 cycles 70 % $U_t$ (30 % dip in $U_t$ ) for 25 cycles < 5 % $U_t$ (>95 % dip in $U_t$ ) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the <i>medizinisches Bett</i> requires continued operation during power mains interruptions, it is recommended that the <i>medizinisches Bett</i> be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE:  $U_t$  is the a. c. mains voltage prior to application of the test level.

## Electromagnetic immunity

The *medizinisches Bett* is intended for use in the electromagnetic environment specified below.  
The customer or the user of the *medizinisches Bett* should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 V	3 V	Portable and mobile RF communications equipment should be used no closer to any part of the EQUIPMENT <i>medizinisches Bett</i> , including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.  Recommended separation distance: $d = \left[ \frac{7}{3} \right] \sqrt{P}$  $d = \left[ \frac{3,5}{3} \right] \sqrt{P}$ 80 MHz to 800 MHz  $d = \left[ \frac{7}{3} \right] \sqrt{P}$ 800 MHz to 2,5 GHz  where $p$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and $d$ is the recommended separation distance in metres (m). <sup>a</sup>  Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup>  Interference may occur in the vicinity of equipment marked with the following symbol:  
Radiated RF IEC 61000-4-3	3 V/m	3 V/m	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.  
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the *medizinisches Bett* is used exceeds the applicable RF compliance level above, the *medizinisches Bett* should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the *medizinisches Bett*.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than  $[V_1]$  V/m.

## Recommended separation distances between portable

### and mobile RF communications equipment and the *medizinisches Bett*.

The *medizinisches Bett* is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the *medizinisches Bett* can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the *medizinisches Bett* as recommended below, according to the maximum output power of the communications equipment

Rated maximum output of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = \left[ \frac{3,5}{3} \right] \sqrt{P}$	80 MHz to 800 MHz $d = \left[ \frac{3,5}{3} \right] \sqrt{P}$	800 MHz to 2,5 GHz $d = \left[ \frac{7}{3} \right] \sqrt{P}$
0,01	0.12	0.12	0.23
0,1	0.37	0.37	0.74
1	1.17	1.17	2.33
10	3.69	3.69	7.38
100	11.67	11.67	23.33

For transmitters rated at a maximum output power not listed above the recommended separation distance  $d$  in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where  $P$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

## 9 Declaration of conformity

Manufacturer:

Hermann Bock GmbH  
Nickelstraße 12  
33415 Verl

Product description/model

. domiflex 2  
. domiflex 2 wash

Classification:

Medical products class I,  
norm 1 and 12 referring to appendix IX of MDI

Choose conformity evaluation process:

Annex VII of MDD

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Hereby we declare that the above specified products comply with the provisions of the directive 93/42/EWC concerning advice for medical products. The entire associated documentation is kept in the premises of the manufacturer.

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Applied standards:

Harmonized standards for which the proof of concordance can be supplied:

EN 60601-1:2006

Medical electric devices - part 1:

General definitions for the safety - including the essential performance characteristics

EN 60601-1-2:2007

Medical electric devices - part 1-2:

General definitions for the safety - including the essential performance characteristics - collateral standard: Electro-magnetic tolerance – requirements and testing.

EN 60601-1-11:2010

Medical electric devices - part 1-11:

General definitions for the safety - including the essential performance characteristics - collateral standard: Requirements for medical electrical devices and medical electrical systems for medical care in a home setting.

EN 60601-2-52:2010


Medical electric devices - part 2-52:

General definitions for the safety - including the essential performance characteristics of medical beds.

EN ISO 14971:2012

Application of the risk management for medical products.

Verl, 25 June 2015



Klaus Bock  
(Company management)



Dr. Stefan Kettelhoit  
(Company management)

## 10 Regular technical safety inspections with service

Regular safety inspections ensure the maintenance of the highest possible safety level and are considered an important safety precaution. Medical devices must be inspected regularly in terms of safety according to the stipulated regulations of the manufacturer and the generally accepted rules of technology. The safety-related protection measures are subject to different requirements and demands. This also applies to the potential wear and tear in the daily use. To prevent such risks, constant and consistent compliance with the deadlines for regular technical safety controls (TSC) is absolutely necessary. The manufacturer has no influence on the operator's adherence with respect to the observance of these regulations concerning electric beds. Bock facilitates the observance of the necessary precautionary measures to be taken by means of their time-saving services.

The execution of the inspection, assessment and documentation must be performed only by or under supervision of professional persons such as electricians or electro-technically instructed persons who have a thorough knowledge of the relevant provisions and are able to recognize possible impacts and hazards.

In case that there is no suitable person on part of the operator to perform regular functional testing, Bock's service offers to perform the functional testing including check and observance of the respective inspection terms for you for a fee.

**The company Hermann Bock GmbH stipulates that a safety-technical inspection is to be executed with the first use and at least once a year and with each re-use of the bed.**

To facilitate the execution of all necessary safety inspections, Hermann Bock GmbH provides you with the TSC checklist for the regular functional testing, which can be found in the assembly and operation manual. Please make a copy of the checklist and use it as a form for your functional testing. The checklist serves as evidence report of the performed inspection and must be kept on file.

You can also download this TSC checklist from our website: [www.bock.net](http://www.bock.net).

### **Attention:**

**If you suspect or recognise an error, deterioration or malfunctions, immediately disconnect the bed from the mains, remove it from service and label it out of order.**

A waiver of the annual leakage current measurement is only permitted with health care beds of the series domiflex 2 and domiflex 2 wash (manufacture started on 1 July 2015) by Hermann Bock GmbH, which are equipped with a 24 V drive system (SMPS) from Dewert or Limos. All 230 volt parts of this drive system are outside of the health care bed. In regards to the TSC, conduct visual and functional testing. If the testing was

passed (for the electrical components), the leakage current measurement can be omitted during the service life of the health care bed.

When conducting the visual and functional testing, pay particularly attention to cable splits, abrasions, kinks and pressure points, porosities and exposed wires on the connection cables and plug connectors.

It is also possible for the operators of health care beds to extend the regulated deadline to at least one safety inspection every 2 years. This applies when it is proven (e.g. through documented error statistics, etc.) and guaranteed that the error rate (e.g. the number of errors detected during a control check) does not exceed the 2% limit as set in BGV (Provisions of the German Accident Prevention and Insurance Association) A3.

**Very important:**

**If the error rate should exceed again the 2% threshold (see BGV A3), the deadline must be reduced again to 1 x per year.**

This health care bed was developed, designed and manufactured for safe operation over a long period of time. If properly used, the expected life service life of this health care bed is up to 10 years. The service life depends on operating conditions and frequency.

**Attention:**

**Unauthorised technical changes to the product void all warranty claims.**

**Top tip by Bock**

Our friendly and professional hotline service awaits your questions regarding the safety of Bock health care beds and Bock safety technical control training. Our representatives gladly provide you with practical advice when you face problems with the operation of our electrically operated beds.


Call our hotline service under 01805-262500 from Monday to Thursday, 8:00 am to 4:30 pm and Fridays from 8:00 am to 1:00 pm. Our representatives will provide support and advice for you. (14 cents/min. from a landline, up to 42 cents/min. from the mobile network).



**TSC check list** according to MPBetreibV (Medical Devices Operator

Ordinance), BGV A3 and DIN EN 62353

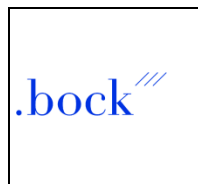
Issuing date: 1 July 2015

Test specimen	<input type="checkbox"/> Electric bed <input type="checkbox"/> Mechanic bed <input type="checkbox"/> Insert frame	
Model designation		
Series/inventory number:		
Year of manufacture:		
Manufacturer:	Hermann Bock GmbH	

**Visual inspection:**

No.	Description	Yes	No	Remark
<b>General:</b>				
1	Type plate/sticker present on bed and legible?	<input type="checkbox"/>	<input type="checkbox"/>	
2	Operating manual available?	<input type="checkbox"/>	<input type="checkbox"/>	
3	Is the safe capacity/working load (weight of patient plus mattress weight plus accessory weight) as mentioned on the type plate observed?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Electric components:</b>				
4	Power cable, connecting cables and plug without scratches, dents, kinks, porous parts or bare wires?	<input type="checkbox"/>	<input type="checkbox"/>	
5	Strain relief firmly fastened and efficient?	<input type="checkbox"/>	<input type="checkbox"/>	
6	Correct and secure cable leading and cable connections?	<input type="checkbox"/>	<input type="checkbox"/>	
7	Housings of motors and hand control without damages?	<input type="checkbox"/>	<input type="checkbox"/>	
8	Motor lift pipes without damages?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Chassis (with scissors construction beds) / end pieces (of actuator beds):</b>				
9	Chassis construction free of defects with no ruptured welding seams?	<input type="checkbox"/>	<input type="checkbox"/>	
10	Castors and bumper rollers (if available) without damages?	<input type="checkbox"/>	<input type="checkbox"/>	
11	Plastic end caps and mechanical connecting elements (screws, bolts, etc.) complete and without damages?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Lying surface and end pieces:</b>				
12	Sprung wooden slats, aluminium/steel bars, carrier plate or springs without damages? (No cracks, no fractures, tight fit, enough pressure, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
13	Frame of lying surface and lifting parts free of defects with no ruptured welding seams?	<input type="checkbox"/>	<input type="checkbox"/>	
14	Plastic end caps and mechanical connecting elements (screws, bolts, etc.) complete and without damages?	<input type="checkbox"/>	<input type="checkbox"/>	
15	Bed accessories (lifting pole, stand-up help, triangle handle, etc.) safely attached and without any signs of wear and tear?	<input type="checkbox"/>	<input type="checkbox"/>	
16	Tight fit and no cracks or breakages of head and foot end pieces?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Side rails:</b>				
17	Side rails without cracks, breakages or damages?	<input type="checkbox"/>	<input type="checkbox"/>	
18	Distance between side rail shafts not more than 12 cm?	<input type="checkbox"/>	<input type="checkbox"/>	
19	Height of side rails above the mattress at least 22 cm?	<input type="checkbox"/>	<input type="checkbox"/>	
20	Distance between end pieces and side rails and/or distance between divided side rails less than 6 cm or greater than 31.8 cm?	<input type="checkbox"/>	<input type="checkbox"/>	

Name, location:	
Address:	
Place and postcode:	
Station/room:	
Name of the tester/date:	



### Functional testing:

No.	Description	Yes	No	Remark
Side rails:				
21	Smooth running of the side rail in the tracks and safe locking into place?	<input type="checkbox"/>	<input type="checkbox"/>	
22	Sufficient mounting and firm seat of the side rail shafts/parts?	<input type="checkbox"/>	<input type="checkbox"/>	
23	Load stress test of the side rails without deformation?	<input type="checkbox"/>	<input type="checkbox"/>	
Lying surface:				
24	Back part, leg part adjustment and special functions properly and without any obstacles?	<input type="checkbox"/>	<input type="checkbox"/>	
25	Safe grid mechanism of lower leg rest (if available) in every step, even under stress?	<input type="checkbox"/>	<input type="checkbox"/>	
26	Is the clamping effect of the 6 eccentric clamps (domiflex 2 / domiflex 2 wash) sufficient? If not, the lock nut possibly could use a bit more fastening!	<input type="checkbox"/>	<input type="checkbox"/>	
Chassis (with scissors construction beds) / end pieces (of actuator beds):				
27	Hub adjustment properly and without any obstacles?	<input type="checkbox"/>	<input type="checkbox"/>	
28	Safe braking effect, blocking and free running of wheels?	<input type="checkbox"/>	<input type="checkbox"/>	
Electric components:				
29	Testing of hand control (keys and disabling function) all working properly without any defects?	<input type="checkbox"/>	<input type="checkbox"/>	
30	Testing of battery / block battery / emergency lowering: Function properly and without any defects?	<input type="checkbox"/>	<input type="checkbox"/>	

### Electric measuring:

No.	Description	Yes	No	Measured value
Insulation resistance - (must be only measured on old models before manufacture year of 2002.)				
31	Insulation resistance – measured value larger than 7MΩ?	<input type="checkbox"/>	<input type="checkbox"/>	
Device leakage current – (It must be measured with each TSC. Only it is a <b>domiflex 2 (item no. 271) or domiflex 2 wash (item no. 272)</b> with a Limoss 24 V combinatorial circuit device (SMPS) drive system or a Dewert 24 V combinatorial circuit device (SMPS): no leakage current measurement must be carried out during the service life of the health care bed when the visual and functional testing (electric components) was passed.)				
32	Device leakage current - measured value smaller than 0.5mA?	<input type="checkbox"/>	<input type="checkbox"/>	

### Evaluation

No.	Description	Yes	No	Remark
33	All values/inspection within the permissible range passed?	<input type="checkbox"/>	<input type="checkbox"/>	
In the event the inspection result did not pass:		<input type="checkbox"/> Repair <input type="checkbox"/> Sorting		
Next inspection		Signature of tester		





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#### Our SALES PARTNERS

Our business partners pursue the same strategy as we do: quality, innovation and above-average standards that are internationally recognized. You can rely on our business partners as you can rely on us.

Please note that only our authorised personnel and our sales partners can provide training, supply of spare parts, repairs, safety technical controls (TSC) and other services. Otherwise, all warranty claims will be void.

Here is a short list of our business partners:

Australia	alphacare   <a href="http://www.alpacare.com.au">www.alpacare.com.au</a>
Belgium	AXAMED nv-sa   <a href="http://www.axamed.be">www.axamed.be</a>
Denmark	Medema Danmark AS   <a href="http://www.medema.dk">www.medema.dk</a>
UK	Carebase   <a href="http://www.carebase.net">www.carebase.net</a>
Estonia	ITAK Ltd.   <a href="http://www.itak.ee">www.itak.ee</a>
Finland	RESPECTA OY   <a href="http://www.respecta.fi">www.respecta.fi</a>
Greece	Wheel Rehabilitation Products   <a href="http://www.wheel.gr">www.wheel.gr</a>
Israel	Israel Quality of Life Center   <a href="http://www.iqlc.com">www.iqlc.com</a>
Italy	Enrico Spadoni   <a href="http://www.bock.net">www.bock.net</a>
Croatia	BEZ LIMITA d.o.o.   <a href="http://www.bezlimita.hr">www.bezlimita.hr</a>
Lebanon	ALBERT MASSAAD s.a.r.l.   <a href="http://www.albertmassaad.com">www.albertmassaad.com</a>
Luxembourg	Stoll   <a href="http://www.matelas.lu">www.matelas.lu</a>
New Zealand	Cubro Ltd.   <a href="http://www.cubro.co.nz">www.cubro.co.nz</a>
The Netherlands	Eureva B.V.   <a href="http://www.eureva.nl">www.eureva.nl</a>
Norway	Medema Norge AS   <a href="http://www.medema.no">www.medema.no</a>
Austria	Reha Service GesmbH   <a href="http://www.rehaservice.at">www.rehaservice.at</a>
Poland	Timago International Group Sp. z o.o.   <a href="http://www.timago.pl">www.timago.pl</a>
Portugal	MACHADOS   <a href="http://www.machadosmadeira.com">www.machadosmadeira.com</a>
Romania	Donis srl   <a href="http://www.donis.ro">www.donis.ro</a>
Russia	Lazerlink
Switzerland	Sodimed   <a href="http://www.sodimed.ch">www.sodimed.ch</a>
Serbia	Proxi-Med d.o.o   <a href="http://www.proxi-med.co.rs">www.proxi-med.co.rs</a>
Slovenia	Medimaj d.o.o.   <a href="http://www.medimaj.com">www.medimaj.com</a>
Slovakia	Servis Invo   <a href="http://www.servisinvo.sk">www.servisinvo.sk</a>
Bock Spain	Ferran Asensio Jou   <a href="http://www.bock.net/es/">www.bock.net/es/</a>
Czech Republic	Ortoservis   <a href="http://www.ortoservis.cz">www.ortoservis.cz</a>
Ukraine	ADS Ukraine