

## domiflex

.bock<sup>///</sup>

- domiflex
- domiflex low / low 20/80
- domiflex low classic
- domiflex 185
- adiflex 220



Dear valued customer,

with your decision to purchase a nursing care bed from Hermann Bock GmbH, you are receiving a long-lasting care product with superior functionality at the highest safety level. Our electrically operated nursing 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.

A handwritten signature in black ink, reading "Klaus Bock". The signature is written in a cursive, flowing style with a large, stylized 'K' and 'B'.

Klaus Bock

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# 1 Preface and general instructions

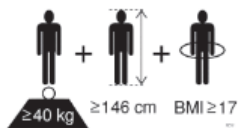
The various bed systems from Hermann Bock meet special requirements for the use in care and treatment facilities as well as for home care. Reliable functionality and a long product life make each bed particularly valuable. Our beds need little maintenance with proper operation and care. Each bed from 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.

The beds comply with the EN 60601-2-52 standard. The electrical building components comply with safety standard EN 60601-1 for medical devices. Nursing care beds are medical devices and are to be assigned to Class 1.

These standards divide the beds in five different areas of use:

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 care bed
4. Care at home, pure so-called "HomeCare bed"
5. Home-care nursing service

## 1.1 Intended purpose



The nursing care bed is suitable for persons (adults) in need of care who are at least 146 cm tall. The weight of the person may not exceed 135kg or 185kg or 220kg (depending on the model, see Chapter 4.1) and must be more than 40kg. The body mass index (BMI = weight of the person (kg) / body height of the person (m)<sup>2</sup>) must be greater than or equal to 17.

The nursing care bed may be used in homes for the elderly or nursing homes and rehabilitation facilities. 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 nursing care bed was also designed as a convenient solution for the home care of frail and elderly people as well as for home care of people with disabilities. Accordingly, the nursing care beds are designed to be used for the application environments 3 to 5. Any other use is considered improper and is excluded from a possible liability claim.

The Trendelenburg function may be used exclusively under supervision of medical professionals. The beds, which are determined for application environment type 4, are equipped with a hand control which is unable to operate the Trendelenburg function.

The nursing care bed is not suitable for use in hospitals. It is also not designed to transport patients. The beds can only be moved within the patient's room - even during patient positioning - for cleaning or better access to the patient, for example.

Attention: The beds come with no special connection options for a potential equalisation. Electrical medical devices connected to the patient intravascular or intracardiac may 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.

**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 person groups**

### *Operator*

Operators (e.g. medical supply stores, specialist dealers, facilities and cost units) include all physical or juridical persons, who use the beds or have the beds used for medical purposes. 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 nursing 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 nursing care bed.

### *Qualified personnel*

Employees of the operator are referred to as qualified personnel. They are entitled to deliver the nursing care bed, assemble, dismantle and transport it, on the basis of their training or instructions. Besides knowing how to operate, mount and demount the nursing care bed, these persons must be instructed according to the guidelines concerning the cleaning and disinfection of the nursing 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 via the hand control. 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 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 within the adjustment range of the side rails. If the side rails 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 or animals in the area between the floor and the raised lying surface. Danger of being crushed is particularly high in these areas. Always beware of objects that are located close to or even below the nursing care bed. This can lead to damages.

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 safe working load, please refer to the type plate on the lying surface frame of the bed.

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

This nursing care bed was developed, designed and manufactured for safe operation over a long period of time. With proper operation and maintenance, this nursing care bed has an expected service life of 7 to 10 years. The service life depends on operating conditions and frequency. In the furnishing sector, for example, a service life of 15 years is to be expected.

#### **Attention:**

**Unauthorised technical changes to the product voids 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 nursing care bed in these markets, including through third parties, is prohibited by the manufacturer.**

#### **1.5 Requirements for the installation location**

The company Hermann Bock GmbH is not liable for damages which might arise from the daily usage on the floor.

To avoid floor indentations, floor should correspond to the recommendations of the FEB - Fachverband der Hersteller elastischer Bodenbeläge e.V. (Association of Elastic Floor Coverings Manufacturers). To do this, the technical information FEB No. 3 can be referenced.

### **Hazard note from 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 disturbing or 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.

## 1.6 Type plate

Each nursing care bed is marked with an individual and a general type plate.

### *Individual and general type plate*

<p>(1) <b>Model: xxx</b></p> <p>(2) Date of manufacturing: xx.xx.xxxx</p> <p>(3) Serial no. xxxxxxxx-xxx</p> <p>(4) xxx V ~ xx HZ max. x A</p> <p>(5) Duty cycle xx % (x min ON / xx min OFF)</p> <p>(6) Motor protection class IPX4</p> <p>(7) <math>\frac{\Delta}{\Delta}</math> = xxx kg    <math>\frac{\Delta}{\Delta}</math> = xxx kg</p> <p>(8) Hermann Bock GmbH - Nickelstr. 12 D-33415 Verl / Tel. +49(0)1805/262600</p>	<p>CE</p> <p>MD</p> <p>Made in Germany</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>890.02355</p> <p>Made in Germany</p>	<p><b>.bock</b></p> <p>MD</p> <p>Hermann Bock GmbH Nickelstr. 12 33415 Verl - Germany phone: +49 5246 9205-0 www.bock.net</p>
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(9)

- (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 working load
- (8) Manufacturer
- (9) Symbols (located on the right side)



## Explanation of the symbols:



Conformity mark according to the medical device regulation



Symbol for observance of the user manual



Within the European Union, this product must be disposed via the separated municipal waste. Product may not be disposed of as household waste.



Medical application part type B



Use only in dry rooms



Protection class II (double insulation, insulated for protection)

IPX4

Protection of electrical equipment against splashing water



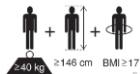
Symbol for maximum patient weight



Symbol for safe working load



Symbol for the identification of a medical device



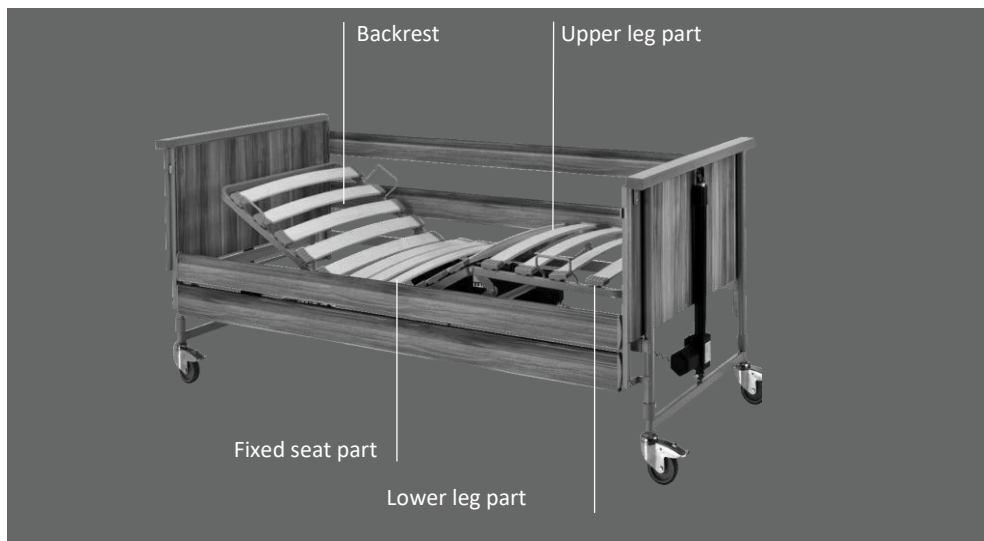
Patient population



Follow the instructions appropriate for mattress size and thickness



Address of the manufacturer



## 2 General description of the functions

### Construction design and function

#### *Corrosion protection*

The Hermann Bock GmbH nursing care beds are developed and constructed in such a way that they can function long and safely. For this reason, all materials that may corrode are protected accordingly. All metal parts are equipped with a surface protection. The steel parts are either galvanised or stove-enamelled with a PES powder coating and the aluminium profiles are anodised.

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

The lying surface consists as standard of a slatted comfort frame (can alternatively be fitted with aluminium slats 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. The steel tubes are stove-enamelled with a PES-powder coating. The electric variable height adjustment of the lying surface is carried out with protective low-voltage DC motors (29 to 35V), and controlled with the smooth keys of the hand controller. 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. In the event of a power failure, the back and leg sections can be lowered using a 9-volt battery.

### *The chassis*

The height adjustment of the beds is carried out either via two height-adjustable manual controls, or via a base frame with single or double drive. The surface of the tubular steel structure is stove-enamelled with a PES-powder coating.

### *The side rail*

Each nursing care bed can be equipped on both sides with two 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 each end is fitted with a functional cap. The side rail can be easily operated through an ergonomically designed release button.

### **The operation of the continuous side rails**

The release button for adjusting the continuous side rails is located at the top of the inner sides of the head and foot parts directly next to the metal guides for the side guard rails.

If the side rails are to be lowered, grasp the provided gripping groove of the upper side guard rail (Fig. 1), lift the side rail slightly and press the release button on one side of the head or foot part (Fig. 2). The side rail is released on the corresponding side and can easily be lowered down to the stop

(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 the lowered position.

**Please observe: Be sure to raise the side rail slightly, and only then press the release button!**

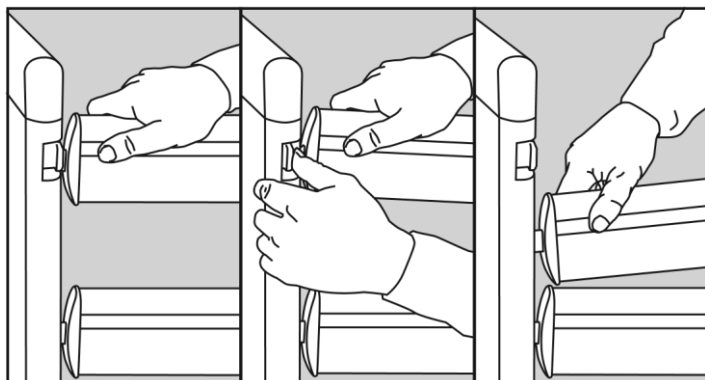


Abb. 1

Abb. 2

Abb.3

If the side rails are to be brought into the upper position as protection against falling out, grasp the upper side guard rail in the middle of the gripping groove and pull the side rail upwards until it audibly engages at both ends. The side rail is now in a pulled-up position.

The side rails first and foremost serve as a fall prevention. In the case of very emaciated persons in need of care, this protection is no longer sufficiently provided by the side rails and additional protective measures must be taken, e.g. by adding a push-fit side rail padding (accessory).

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.

### **Hazard note from Bock**

Use only original Bock side rails, which are available as accessories for every nursing care beds. Use only technically flawless and non-damaged side rails with the permissible 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 all parts of the side rails, and all parts which secure the side rails, for any possible damages.

The operation of the side rail should be done with great care. Fingers can be quickly pinched between the longitudinal pieces.

Fig. 1: Continuous wood / steel side protection, divided into two parts

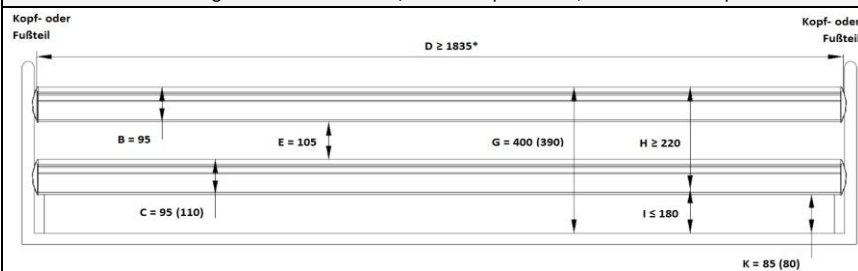
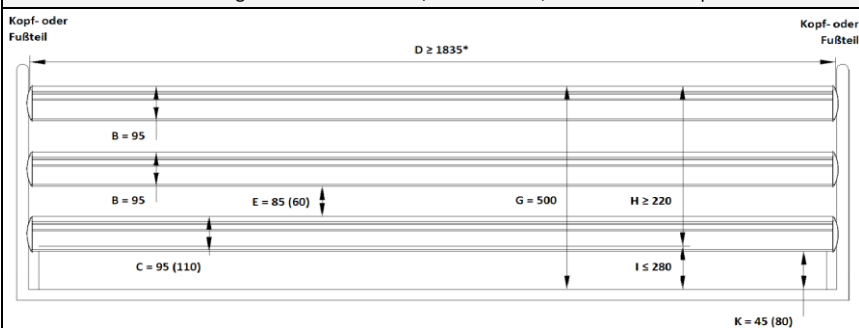


Fig. 2: Continuous wood / steel side rail, divided into three parts



Description	
All dimensions in mm.	
* Depending on the length of the lying surface	
The single post at the head and leg end is optional.	
The dimension in brackets is optional	

Legend	
Area Description	
A	Distance between the head part and the side rail
B	Height 1 of side rail
C	Height 2 of 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 the panel, if any)
L	Distance between the foot part and the side rail

Item numbers	
Designation	item no.
Continuous wood / steel side rail	
Two-part (Fig. 1)	
Wood side rail (set: 95 / 95mm)	90223
Wood side rail (set: 95 / 110mm)	91247
Steel side rail (set: 95 / 110mm)	91314
Three-part (Fig. 2)	
Wood side rail (set: 95 / 95mm)	91566
Wood side rail (set: 95 / 110mm)	91531

## 3 Electric parts

### 3.1 The drive unit

The drive unit consists of a double drive with two separate drive units for the electrically movable adjustment of the backrest and leg rest. The level adjustment of the lifting frame is adjusted via one or two individual drives (depending on the model). The level adjustment drive is connected to the control box via a helical cable. In the plug-in power supply, the input voltage is converted into a protective low voltage of maximum 35 VDC direct current. 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.

The internal emergency lowering is carried out via a 9 V block battery. 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.

The maximum duty cycle is specified on the (type plate) of the bed. For example, 10% duty cycle (2 min. ON / 18 min. OFF) means that any electronic adjustment can be performed for a max. of 2 minutes within a timeframe of 20 minutes (protection against overheating).



*9 V block battery for emergency lowering*

If the maximum setting time of two minutes is exceeded e.g. by someone continuously playing with the hand control which could lead to an 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 automatically supplied again.

#### **Hazard note from Bock**

The 9-volt batteries in the controller should be checked once a year for their functionality and replaced if necessary. In addition, regular visual inspections must be carried out.

### 3.2 Caution: Electric drive

The electrically operated nursing care bed enables the person in need of care to support the recovery process psychologically and physically and at the same time relieve pain through its various functions. 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 into the motor housing, e.g. during improper cleaning. This damage can cause malfunction of the controller, 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.

#### **Hazard note from Bock**

All drive components must not be opened!

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

#### **Hazard note from Bock**

The motors meet the water protection standard IPX4. 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.

#### **Hazard note from 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.



### **3.3 Drives**

Hermann Bock GmbH equips nursing care beds with drive systems from Limoss (drive system with external switching power supply).

The double drive for step-less adjustment of lying surfaces and the linear drive as single drive for height adjustment of the lifting frames each consist of four main components.

- Housing
- Motor
- Gear
- Spindle with nut

The housing principle of the double drive and the single drive guarantees the permanent function of all drive components. The special design principle is based on two force-absorbing housing shells. 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 housing of the double drive is characterised by particularly simple assembly/disassembly and convenient installation space for the emergency lowering battery and control electronics above the powerful lateral slider.

### **3.4 The external switching power supply SMPS from Limoss**

The Limoss drive has a primary fuse in the plug-in power supply and an emergency lowering device. 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 which is used to actuate the bed. It is connected via 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 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 240 V. Electromagnetic alternating fields are not measurable on the SMPS adapter and in operation still lower than mains isolation.



*The external switch mode power supply*

### **3.5 Resetting the position after triggering the MSE**

After the release of the mechanical quick release, the position of the drive no longer corresponds to the stored position. For this reason, the drive concerned must be reset to zero. To do this, press the "down" key of the corresponding drive until the drive has reached the lower control limit switch. The drive was successfully reset and can now be moved as usual.

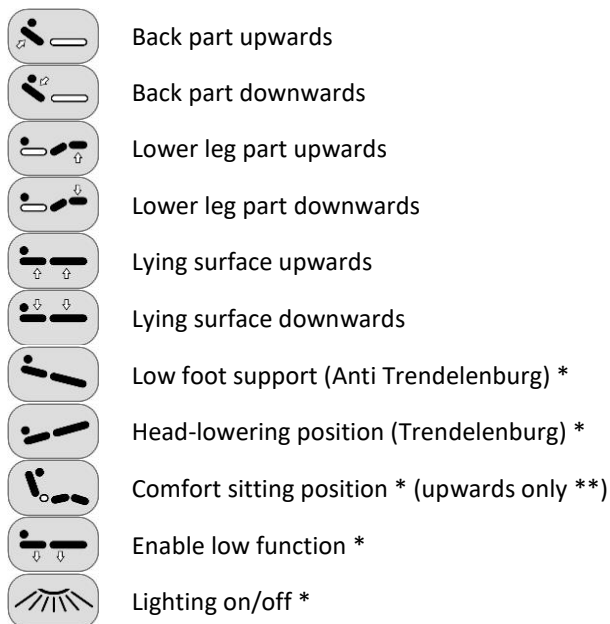
### 3.6 The hand control

The hand control is equipped with a built-in locking device, which allows the caregivers to lock the hand switch via a key completely or partially for its operation.

#### *The lockable hand control, first-fault protected*

The base functions can be controlled safely through a slight pressure on the six or respectively ten extra large keys, which are located on the ergonomically designed 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 - particularly when cleaning and during the maintenance of the bed. Thus, a possible disruptive position of the hand control can be avoided by simply attaching it to any preferred spot on the bed.



Examples for different hand controls

\* availability depends on the model

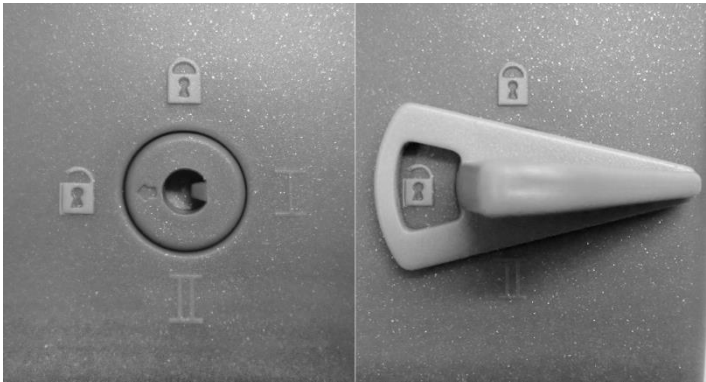
\*\* Comfort sitting position only moves up. All adjusted positions must be lowered separately.

### **Hazard note from Bock**

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

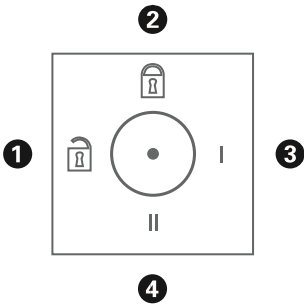
Hand control - lock functions

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.



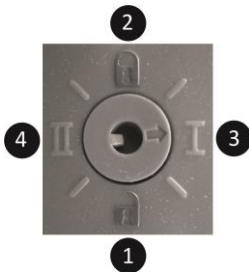
Key for locking device

Locking device 1



2	All hand control functions disabled
1, 3, 4	All functions executable

Locking device 2



1	Only Trendelenburg function disabled
2	All hand control functions disabled
3 + 4	All functions executable (including Trendelenburg function, if available)

## 4 Assembly and operation

### 4.1 Technical data

Technical data		domiflex	domiflex low 20/80	domiflex low	domiflex low classic	domiflex 185	adi.flex 220
Lying surface dimension: cm		90 x 200	90 x 200	90 x 200	90 x 200	90 x 200	120 x 200
Outer dimension: cm		103 x 220	103 x 220	103 x 220	103 x 220	103 x 220	133 x 217
safe working load: kg		170	170	170	170	220	255
max. Weight of person: kg		135	135	135	135	185	230
Height adjustment: cm		40 – 81	20 – 80	24 – 65	21 – 62	40 – 81	23 – 83
Length of backrest (with MA*): cm		66 (78)	66 (78)	66 (78)	66 (78)	66 (78)	66
max. Angle of incidence to horizontal:							
- back part		70°	70°	70°	70°	70°	70°
- Lower leg part		18.2°	18.2°	18.2°	18.2°	18.2°	18.2°
- Trendelenburg position (optional)		15°	15°	15°	15°	n. possible	n. possible
Side rail height with spring strips: cm		39	39	39	39	39	39
Selection options for side rails:							
- continuous wood / steel side rail:		•	•	•	•	•	•
Lifter bottom space clearance: cm		> 15	-	-	> 15	> 15	> 15
Sound level: dB (A)		< 65	< 65	< 65	< 65	< 65	< 65
Weights:							
Total incl. continuous Wood side rail: kg		74	91	91	79	76	126
Lying surface - back part: kg		13.8	13.8	13.8	13.8	13.8	19.6
Lying surface - foot part: kg		11.6	11.6	11.6	11.6	11.6	17.4
Lying surface – lying surface motor: kg		4.6	4.6	4.6	4.6	4.6	4.6
Control actuating device incl. motor (end piece):		16	24.7	24.7	18.7	17.5	36.5
Continuous side rail: kg/set		11.5	11.1	11.1	11.5	11.5	11.5
Continuous Steel side protection: kg / set		15.8	15.8	15.8	15.8	15.8	15.8
Special di- Length: cm		180 - 220	180 - 220	180 - 220	180 - 220	180 - 220	180 - 220
Special di- Width: cm		n. possible	n. possible	n. possible	n. possible	100	n. possible
Electric data							
Input voltage: V		100-240	100-240	100-240	100-240	100-240	100-240
Frequency: Hz		50/60	50/60	50/60	50/60	50/60	50/60
max. Power consumption: A		2.1 – 0.9	2.1 – 0.9	2.1 – 0.9	2.1 – 0.9	22.1 – 0.9	2.1 – 0.9

All parts and data are subject to a constant further development and therefore may differ from the mentioned data. Please note that the beds are also available in special sizes, whereas the technical data may vary accordingly.



## 4.2 Model series domiflex

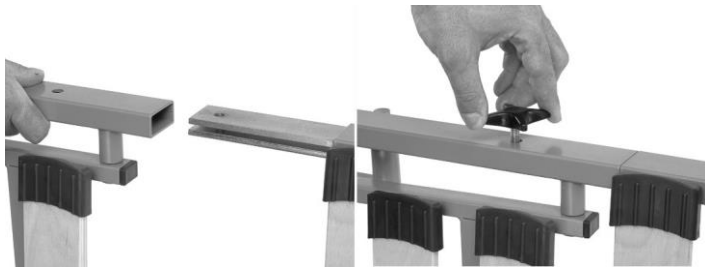
The domiflex model series, consisting of the domiflex, domiflex low, domiflex low 20/80, domiflex low classic, domiflex 185 and adi.flex 220 models, has been specially designed to meet the requirements of daily continuous use in home care. The above mentioned models provide a high degree of lying comfort for frail people, persons in the need of care and people with disabilities, and support the optimal care through an easy operation at the same time. The domiflex model series:

- is not suitable for hospital use.
- is not suitable for the 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 need of care (adults) with a body height of 146 cm or more. The weight of the person may not exceed 135kg or 185kg or 220kg (depending on the model, see Chapter 4.1) and must be more than 40kg. The body mass index (BMI) must be greater than or equal to 17.
- 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.

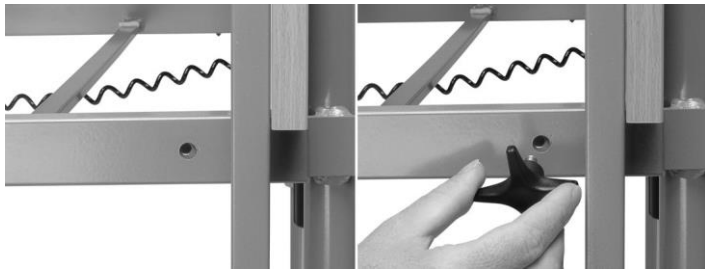
**Attention:** The bed has no special connection options for a potential equalisation. Electrical medical devices connected to the patient intravascular or intracardiac may not be used. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of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

**The domiflex model series (domiflex, domiflex low, domiflex low 20/80, domiflex low classic, domiflex 185) becomes operational**

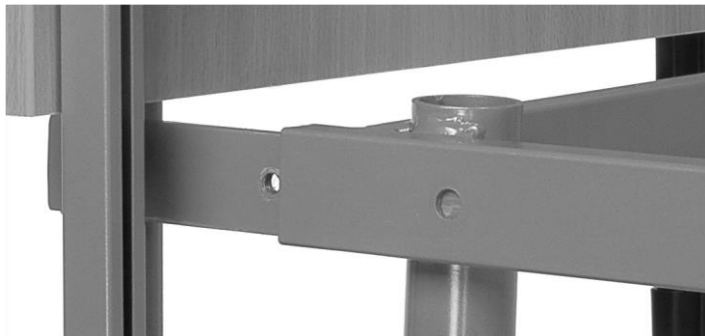
1. Before you begin with the assembly, all packaging residues (incl. the cable ties) must be completely removed. Remove the two screws that secure the lying surface on the transport system.
2. Remove the two lying surface parts from the transport system, push them together and screw them tightly on both sides with the screws previously removed. Hook in the motor in such a way that the connection sockets point towards the centre of the bed and close by means of closing caps.



3. Push one end piece on one side completely and screw tight.



4. Push on the second end piece only up to directly in front of the threaded hole.



5. Then hook the wooden or steel side rails into the pre-assembled metal guides and arrange them.

**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.



6. Finally push on the second end piece completely in, and screw them together tightly.





7. The power cable must be screwed to the lug of the lying surface with the strain relief provided on the cable. Connect the mains plug.

8. After assembly or before putting the bed into operation, move the adjustment range of the lying surface over the controller to check the optimum positioning of the cables. The adjustment range must be passable without obstacles.

9. On the domiflex 185, remove the reinforcing metal braces from the packaging and mount them on the end piece in the mounting device provided for this purpose, and tighten them with the screws supplied.



The domiflex is now ready for operation.

## The adi.flex 220 is ready for operation

Before you begin with the assembly, all packaging residues (incl. the cable ties) must be completely removed.

1. Remove the two screws of the lying surface attachment as well as the 4 screws of the manual controls with which the parts are attached to the transport system.

2. Now remove the lying surface motor and the two lying surface elements. Place the two manual controls on the floor at a distance of the length of the lying surface. Screw the two lying surface elements together with the manual controls.



3. Set up the two elements and slide the lying surface parts approx. 5cm into each other.



4. To install the side rails, hang the wooden side guards into the pre-assembled metal guides and arrange them. Then push the lying surface elements together completely and screw them together. Then attach the lying surface motor according to the symbols and connect the individual drives.

5. The next steps correspond to points 7 and 8 of the domiflex model series.

The adi.flex 220 is now ready for operation.

## Bed extension (domiflex model series)

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
- Fixing screws



Proceed as follows to install the unit:

1. Remove the mattress from lying surface.
2. Remove the foot end piece.
3. Insert the adapter pieces at the foot end into the lying surface frame and screw them together.
4. Place the wire bracket on the foot part, drill holes (d = 4.2 mm) and screw them together.
5. Slide the foot end piece flush with the threaded hole to the lying surface frame.
6. 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.
7. Then hook the side rails into the pre-assembled metal guides and arrange them.
8. Finally push on the end pieces completely and screw them tightly.



## Disassembly

Pull out the mains plug before disassembly. The disassembly of domiflex is conducted in the reverse order of the assembly description.

### 4.3 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 conducting the movement, pull out the mains plug and attach it with the suspension device to the frame to secure the power cable against falling and being crushed. 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.

#### 4.4 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	

#### 4.5 Function notes

To fix the bed in place, the brakes on the castors (if any) of the chassis must be locked. To accomplish this, use your foot to move the locking lever on the chassis downwards.

If necessary, pull the integrated side rails up until they lock into place. 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, may not be underrun (additionally, a third attachment guard must be used).



#### 4.6 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 nursing 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 handled in accordance with the requirements of the Electrical and Electronic Equipment Act (ElektroG) and disposed of properly.

## 4.7 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 working load has been exceeded	Reduce the load
The drives stop after a longer adjustment time	The adjustment time or safe working load has been exceeded and the polyswitch in the transformer of the controller 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

## 5 Accessories

Hermann Bock GmbH offers practical and mobility-promoting accessories to ensure that each nursing care bed is tailored even more precisely to the individual needs of the person in need of care. 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 offer meets the special quality and safety standards of Bock. In addition to the standard accessories included in 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 and are fitted to its special functions and location of use. The range stretches from technical elements over mattresses up to the occasional extra bed. A wide range of wooden finishes and a variety of colours allow for the harmonious integration of each nursing care bed with any kind of furniture.

### 5.1 Special dimensions

Special dimensions are an essential part of the production Hermann Bock GmbH. 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 GmbH enables customers to have their nursing care bed tailored to fit the individually physical requirements of the person in need of care. For body heights up from 180 cm, Hermann Bock GmbH recommends the use of a bed extension that allows an extension of the lying surface to a length of up to 220 cm. This will enable even tall people to lie comfortably while maintaining the same level of functionality.

#### **Hazard note from 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 person in need of care when adjusting the back and leg rests.

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.

## 5.2 Mounting accessories

The following standard accessories can be combined with the domiflex bed model:

### Side rail height increase:

Delivery includes:

Fully assembled side rail height increase

- Open the plastic lock, attach the side rail extension, position it in the middle and close the lock. Please make sure that the release button of the side rail height increase faces outwards.

Important note:

The Bock side rail height increase is designed for use with all Bock wood side rail variants. Hermann Bock GmbH does not accept any liability for the use of these products on other makes!



### Lifting pole with triangle handle, 6.5 kg

The safe working load of the lifting pole is max. 75 kg.

Delivery includes:

1 piece lifting pole with hook-up loop

1 piece triangle

- Place the lifting pole with triangle handle in the provided hook-up loop at the head part and adjust it accordingly.
- Make sure to only use mattress with a required mattress height as described by the company Bock. You can find this information in section 5.3.



**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 is approx. 5 years. If a lifting pole with triangle handle installed to the bed, it must be tested during each safety technical control, but must be replaced no later than after 5 years.

The handle can be infinitely adjusted within a range of 350mm. This allows an adjustment range between triangle handle and mattress of at least 550mm to 850mm, depending on the mattress thickness. The total height of the nursing care bed increases by 1300 mm when using a lifting pole.

### **Side rail guard pad, 1.4 kg**

Delivery includes:

1 piece cover

1 piece padding

- Open the zipper of the cover, pull the padding onto the side rail from above
- 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:

1 piece tray

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

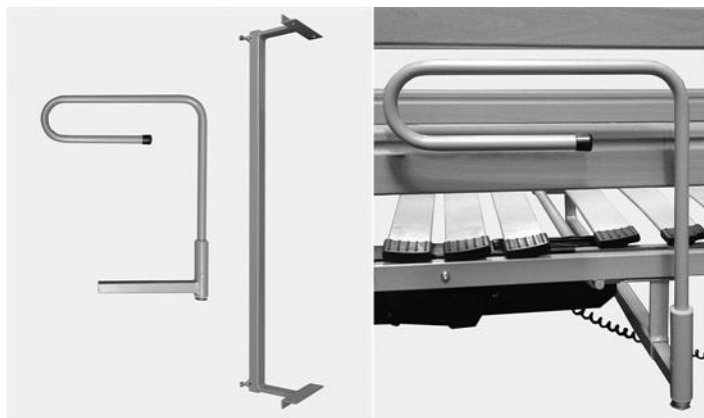


### **Assist handle with cross beam for actuator beds, 3.0 kg**

Delivery includes:

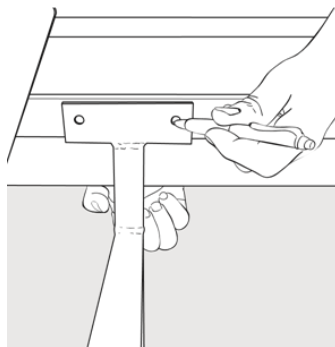
1 assist handle with 1 support cross bar

4 Screws 4 mm

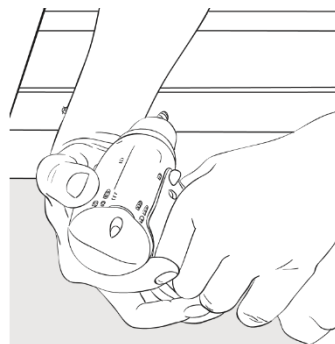




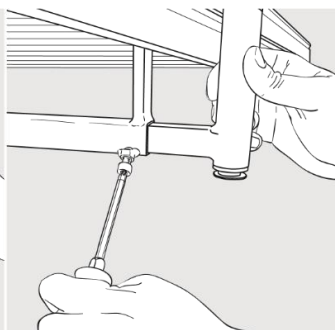
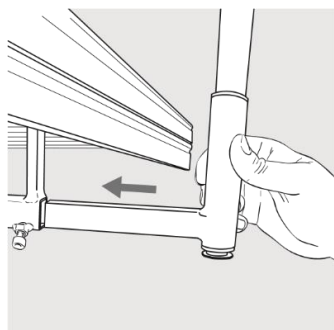
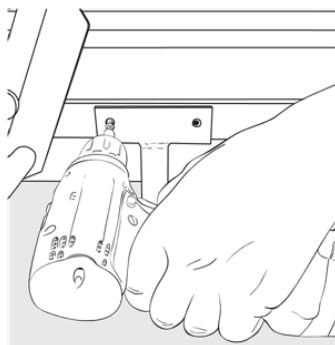
- Hold the support cross bar to the frame of the lying surface and mark with a pen the drill holes on the frame.



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



- Use the provided screws to fasten the cross beam to the lying surface frame.
- Push the assist handle into the support cross-bar, adjust it to the desired position and fasten it tightly.



### 5.3 Mattresses

In general, foam and latex mattresses are suitable for the Hermann Bock nursing 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 height of the mattress used may not exceed:

- 15 cm for aluminium or springwood lying surfaces and
- 12 cm for lying surfaces with spring systems

For higher mattresses, an additional attachment guard device must be used, which is available as an accessory. When using foam mattresses, we recommend the use of a cut foam mattress to allow a better combination with the lying surface.



#### **Hazard note from Bock**

For safety reasons use only original Bock accessories when furnishing your nursing care bed further. Those accessories must be approved by Hermann Bock for the respective bed model. A detailed overview of the accessories and extras for your bed can be found on a separate data sheet. Hermann Bock assumes no liability for accidents, damages and hazards arising from the use of other accessories!

## 6 Cleaning, maintenance and disinfection

The individual bed elements consist of high quality materials. The surfaces of the steel tubes are covered with a durable polyester-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 nursing care bed for a long time to come.

### 6.1 Cleaning and care

#### *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.

## 6.2 Disinfection

Disinfect the nursing care bed with a wipe disinfectant. Please adhere to the tested and recognised procedures of the Robert Koch Institute (RKI). You can use commercially available cleaning and disinfecting agents approved by the RKI. Only mild and gentle agents should be used for the disinfection, in order to maintain the material resistance of the plastic elements such as the motor housing and decorative elements. 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. The list of disinfectants and disinfection methods tested and approved by the Robert Koch Institute can be found on the Internet at [www.rki.de](http://www.rki.de).

## 6.3 Avoidance of hazards

In order to avoid dangers in connection with cleaning and disinfection, you must first observe the following regulations in connection with the electrical components of your nursing care bed. 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.

### **Hazard note from 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.

Under no circumstances must the bed be sprayed with a water hose or high-pressure cleaner, as liquid penetrates into the electrical components, and as a result malfunctions and dangers could occur.

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 detailed information on this in the inspection list.

## 7 Guidance and manufacturer's declaration

### Guidance 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.

Emission 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.  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 purpose.
RF emissions CISPR 11 (partly)	Class B	
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 % $U_T$ (>95 % dip in $U_T$ ) for 5 sec	< 5 % UT (>95 % dip in UT ) for 0.5 cycle 40 % UT (60 % dip in UT ) for 5 cycles 70 % UT (30 % dip in UT ) for 25 cycles < 5 % UT (>95 % dip in UT ) 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 Radiated RF IEC 61000-4-3	3 V 150kHz-80MHz  3 V/m 80MHz-2500MHz	3 V 150kHz-80MHz  3 V/m 80MHz-2500MHz	<p>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:</p> $d = \left[ \frac{3.5}{3} \right] \sqrt{P} \quad 150 \text{ kHz to } 80 \text{ MHz}$ $d = \left[ \frac{3.5}{3} \right] \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left[ \frac{7}{3} \right] \sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>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). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

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.

<sup>a</sup> 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*.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 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.

## 8 Regular inspections with service

Regular inspections facilitate the maintaining of the highest possible safety level, and are considered to be 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 functional testing 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 the event that no person on the part of the user is eligible for the regular inspections or is commissioned, the Bock service offers you the assumption of the regular inspections with simultaneous control and observance of the corresponding intervals for a fee.

**The company Hermann Bock GmbH specifies an inspection interval which stipulates that a safety-technical inspection is to be executed at least once annually, and with each re-use of the bed.**

For support purposes, Hermann Bock GmbH will provide you with the inspection list in the assembly and operation manual for carrying out all the necessary tests. Please copy the checklist as a form for your inspection. The checklist serves as evidence report of the performed inspection and must be kept on file.

The inspection list can also be downloaded from the Internet: [www.bock.net](http://www.bock.net).

**Attention: Unauthorised technical changes to the product voids all warranty claims.**



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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, inspections and other service. Otherwise, all warranty claims will be void.

A listing of our current distributors can be found under [www.bock.net/contact/distribution-partners](http://www.bock.net/contact/distribution-partners)