EN

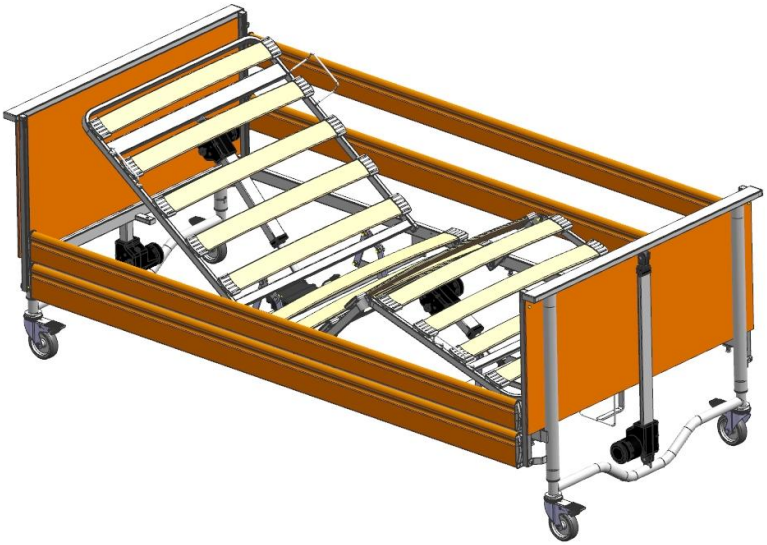
CE

Assembly and operation manual

Nursing care beds

- domiflex® 3
- domiflex® 3 plus
- domiflex® 3 low

.bock®



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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 persons in need of care, 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.

Klaus Bock

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1 General information

1.1 Target groups of these instructions

1.1.1 Operator

The operator[1] of a medical device is any natural or legal person who is responsible for the operation of the healthcare facility in which the nursing care bed is operated or used by its employees. An operator is also deemed to be anyone who makes medical devices available for use outside healthcare facilities in their company or establishment or in public areas. In addition, anyone who provides patients with medical devices for use by themselves or by third parties in the home or other private environment on the basis of a legal or contractual obligation must also fulfil the obligations of an operator. The operator's obligations include in particular:

- The operator must have the training or knowledge and experience required for operation.
- The operator may only authorise persons to use nursing care beds who have the necessary training or knowledge and experience and who have been instructed in the use of the nursing care bed.
- Interconnected medical devices and medical devices with accessories including software or connected to other objects may only be operated if they are suitable for use in this combination, taking into account the intended purpose and the safety of patients, users, employees or third parties.
- The operator is responsible for carrying out maintenance measures, in particular inspections and servicing, which are necessary to ensure the continued safe and proper operation of the medical devices.
- The operator must keep an inventory of all nursing care beds in the respective establishment.

  The operator must immediately report any suspected serious incidents to the competent higher federal authority.

1.1.2 User

A user is anyone who uses a nursing care bed on a patient. Requirements for the user include:

- The user must have the necessary training or knowledge and experience for the application.

[1] For the purpose of this manual, we employ the role of an operator as defined in the German Medical Devices Operator Ordinance (MPBetreibV). For countries outside Germany, national regulations may apply.

- The user must be instructed in the proper handling of the nursing care bed.
- Interconnected medical devices and medical devices with accessories, including software, or medical devices connected to other objects may only be used if they are suitable for use in this combination, taking into account the intended purpose and the safety of patients, users, employees or third parties.
- Before using a medical device, the user must ensure that the medical device is functional and in proper condition and must observe the instructions for use and the other enclosed safety-related information and maintenance instructions.
- The professional user must immediately report any suspected serious incidents to the competent authority.

1.1.3 Patient/resident

Persons in need of care as well as disabled and fragile people who are lying in the nursing care bed. If the patient/resident is also the user of the nursing care bed, he/she must also be instructed in the proper handling of the nursing care bed.

1.1.4 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, assemble and dismantle the nursing care bed, these persons must be instructed according to the guidelines concerning the cleaning and disinfection of the nursing care bed.

1.2 Explanation of the safety instructions

DANGER

This signal word indicates an imminently hazardous situation.
Failure to observe these instructions will result in death or serious injury.

WARNING

This signal word indicates a potentially hazardous situation.
Failure to do so could result in death or serious injury.

CAUTION

This signal word indicates a potentially hazardous situation.
Non-compliance may result in minor or moderate injury.

NOTE

This symbol indicates important information.
Non-observance can lead to material damage.

1.3 Familiarisation with, compliance with and storage of these instructions

Read and understand this manual and the safety instructions before using this product. Failure to do so may result in serious injury or death.

Follow all instructions. This prevents fires, explosions, electric shocks or other hazards that could lead to property damage and/or serious or fatal injuries.

Keep all safety information and instructions in such a way that the information required for using the nursing care bed is accessible to the user at all times. Advise users of the location of these instructions for use and pass them on to subsequent users of the product.

1.4 Where to find information and documents

The latest version of the documentation can be found at the following address:
https://www.bock.net/unternehmen/downloads/
and via the QR code next to the type plate.

2 Product description

2.1 Intended use of the product

2.1.1 Indications

The nursing care bed is used to alleviate a disability or to make life easier for persons in the need of care and caregivers in retirement and nursing homes and rehabilitation facilities, as well as in care at home.

The beds are used when, for example, due to

- paralyses,
- lack of strength,
- movement disorders,
- muscular or neuromuscular deficits,
- malformations or
- other diseases affecting trunk stability or movement and functional capacity of the extremities, especially the legs

a patient who is no longer spontaneously mobile or has restricted mobility requires assistance

- during mobilisation in or out of bed, for example
- when getting in and out of bed, even if safe contact between the feet and the floor is required, or
- the bed must be height-adjustable, e.g. for transfer to or from a wheelchair, or
- when adopting an ergonomic and comfortable lying position in bed, or
- when adopting an ergonomic and comfortable sitting position in bed, or
- when changing position and body position in bed independently, or
- to alleviate discomfort caused by position and posture.

The beds are also used,

- to reduce the nursing workload of caregivers, or
- to support basic or treatment care measures, e.g. positioning for respiratory or circulatory support, or
- for carrying out positioning measures that are gentle on the back, e.g. for pressure-relieving or contracture prophylactic measures, or
- to relieve caregivers, for example if caregivers do not have sufficient/reduced strength.

- if the care of a person in need of care who is no longer spontaneously mobile or has restricted mobility has to be carried out entirely or partially in bed.

The use of the beds is also indicated if the patient

- is to be protected from a fall by positioning the side rails, or
- should be supported during mobilisation when using side rails.

2.1.2 Contraindications

The nursing care bed is **not** suitable for people with at least one of the following characteristics:

- Height less than 146 cm **or**
- Body weight less than 40 kg **or**
- Body Mass Index (BMI) less than 17.

2.1.3 Patient target groups

The nursing care bed is intended for persons in need of care with the following characteristics:

- Height greater than or equal to 146 cm **and**
- Body weight greater than or equal to 40 kg **and**
- Body weight less than or equal to the maximum patient weight specified on the type plate **and**
- Body Mass Index (BMI) greater than or equal to 17.

2.1.4 User

Users of the product are

- Qualified personnel
- Laypersons (e.g. family members)
- Patients/residents

Every user must be instructed in the use of the product using these instructions for use. See also chapter 1.1.

2.1.5 Utilisation environment

The nursing care bed is intended for use in application environments 3 to 5 of EN 60601-2-52:

- Application environment 3: **long-term care in a medical area** where medical supervision is required and monitoring is provided if necessary and medical electrical equipment used in medical procedures may be provided to help maintain or improve the condition of the patient
  (Note: This includes use in nursing homes and in rehabilitation and geriatric facilities.)
- Application environment 4: **care provided in a domestic area** where medical electrical equipment is used to alleviate or compensate for an injury, disability or disease.
- Application environment 5: **outpatient (ambulatory) care**, which is provided in a hospital or other medical facility, under medical supervision where medical electrical equipment is provided for the need of persons with illness, injury or disability for treatment, diagnosis or monitoring.

For unauthorised application environments, see 2.1.7.

2.1.6 Performance and clinical benefit

The nursing care beds facilitate care operations for trained professional and trained lay caregivers as well as for other trained persons (e.g. relatives).

The nursing care beds are designed to compensate for disabilities and to support the provision of medical and therapeutic treatment. Furthermore, the nursing care beds support the caregivers in responding appropriately to position-related pain.

The nursing care beds offer a wide range of adjustment options for the lying surface, allowing the patient to be positioned according to the medical indication, e.g. cardiac and knee bend positioning, comfort sitting positions or pressure-relieving positioning.

The lying surface of the nursing care beds, in combination with the mattress - which may need to be individually selected - and the adjustment options for the lying surface, supports the carer in managing pressure, friction and shearing forces.

Thanks to the ergonomically shaped backrest, the nursing care beds enable a physiological sitting position and support the carer in managing pressure, friction and shearing forces.

Thanks to an optional backrest retraction (mattress compensation), the nursing care beds reduce the thrust towards the foot end, thereby increasing lying comfort and reducing friction and shearing forces acting on the skin.

The nursing care beds have smooth surfaces, which facilitate hygienic measures during reprocessing.

Thanks to the height adjustment, the nursing care beds enable back-friendly working heights for caregivers and non-professionals.

Thanks to the height-adjustable lying surface, the nursing care beds support mobilisation while maintaining safety. They promote independent mobility and safety for both the person in bed and the caregiver(s).

The nursing care beds can be operated intuitively by both professional caregivers and non-professionals. Instruction is required. The beds can be operated by the user or by a third party.

The nursing care beds are suitable for multiple use. Before each new use, observe the requirements for cleaning and disinfection in chapter 6 and for maintenance in chapter 7.

2.1.7 Restrictions on use

Please also note the information at 2.1.2 "Contraindications"!

The weight of the person must **not** exceed the maximum body weight specified on the type plate.

The nursing care bed is **not** intended for transporting patients. The nursing care beds may only be moved within the patient's room - even when the patient is located in the bed - for cleaning or for better access to the patient, for example.

The Trendelenburg function may be used **exclusively** under supervision of medical professionals. Nursing care beds intended for application environment 4 are equipped with a hand control that cannot activate the Trendelenburg function.

The nursing care bed is **not** intended for use in application environments 1 and 2 in accordance with EN 60601-2-52.

- Application environment 1: **intensive/critical care** provided in a hospital where 24 h medical supervision and constant monitoring is required and provision of life support system/equipment used in medical procedures is essential to maintain or improve the vital functions of the patient
- Application environment 2: **acute care** provided in a hospital or other medical facility where medical supervision and monitoring is required, and medical electrical equipment used in medical procedures is often provided to help maintain or improve the condition of the patient.

WARNING

Risk of injury due to electric shock

The beds come with no special connection options for a potential equalisation.

Do not use medical electrical devices that are connected to the patient intravascularly or intracardially at the same time as this nursing care bed!

The operator of the medical devices is responsible for ensuring that the combination of devices fulfils the requirements for electrical safety (EN 60601-1).

2.2 Product versions and variants

The following table provides an overview of the available models in their basic version as well as with motors with splash protection class IPX6 ("wash") and/or with installed reinforcement bars for an increased safe working load and an increased maximum patient weight ("185"):

Lying surface motor	Lying surface height	Model (unreinforced, IPX4)	Addition	
			IPX6	reinforced
Dual drive	35 – 80 cm	*domiflex® 3*	-	*185*
Dual drive	24 – 69 cm	*domiflex® 3 low*	-	*185*
Dual drive	24 – 80 cm	*domiflex® 3 low 24|80*	-	*185*
Single drives	35 – 80 cm	*domiflex® 3 plus*	*wash*	*185*
Single drives	24 – 69 cm	*domiflex® 3 plus low*	*wash*	*185*
Single drives	24 – 80 cm	*domiflex® 3 plus low 24|80*	*wash*	*185*

2.3 Technical data

Technical data	domiflex® 3			domiflex® 3 plus		
	Standard and 185	low and low | 185	low 24|80 and low 24|80 | 185	Standard and 185	low and low | 185	low 24|80 and low 24|80 | 185
Lying surface dimensions: cm	Widths: 75, 80, 90, 100, 105, 110 Lengths: 175, (200)*, 180 (200)*, 200 (220)*					
Height: cm	81**	78**	89**	81**	78**	89**
Width: cm	Lying surface + 11					
Length: cm	Lying surface + 11					
Safe working load standard: kg	190					
Safe working load reinforced ("185"): kg	220					
Max. weight of person Standard: kg	155					
Max. weight of person reinforced ("185"): kg	185					
Height adjustment: cm	35 - 80	24 - 69	24 - 80	35 - 80	24 - 69	24 - 80
Length of backrest: cm	66			77.5		
Height of the side rail: cm	40 (above frame height)					
Diameter of castors: cm	10					
Lifter -space clearance: cm	> 15	> 15***	> 15***	> 15	> 15***	> 15***
Setting angle						
Backrest	70 °					
Upper leg rest	42 °					
Lower leg rest	16 °					
Trendelenburg position	12.6 °					
Weights (90 x 200)						
Total incl. wood side rail: kg	72	73	75.4	76.8	78	80.4
Lying surface head: kg	13.8			20.4		
Lying surface foot: kg	11.6			14.6		
End panel: kg	15.3	15.8	17	15.3	15.8	17
Dual drive: Kg	4.6			n. a.		
Wood side rail (set): kg	11.4					
Electric data						
Sound level: dB(A)	< 65					
Input voltage: V	200-240					
Frequency: Hz	50/60					
Output voltage: V	35					
Max. power consumption: A	2.4					
Rated power: W	219					
Expected service life (years)	10					

All parts and data are subject to a constant further development and therefore may differ from the mentioned data. The technical data of variants may vary.

* All information in brackets refers to the domiflex® 3 nursing care bed with built-in bed extension.

** The overall height of all domiflex® 3 models increases by 890 mm when using a lifting pole.

*** Refers to the entry position (stop before low speed)

2.3.1 Material specification

Steel

- S235JR steel with polyester powder coating
- Steel S235JR galvanised (blue passivated)

Wood

- MDF boards with colour foil
- Pine bars with colour foil
- Birch wooden slat

Plastic

- PC-ABS plastic
- POM plastic
- PA6 plastic
- PP plastic

Electrical components

- PP / POM / PA plastic and anodised aluminium

2.3.2 Conditions for transport, storage and operation:

	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	

2.4 *Compliance with legal regulations and standards*

2.4.1 EU Declaration of Conformity

We, Hermann Bock GmbH, declare under our sole responsibility that this medical device complies with the requirements of the following directives and regulations:

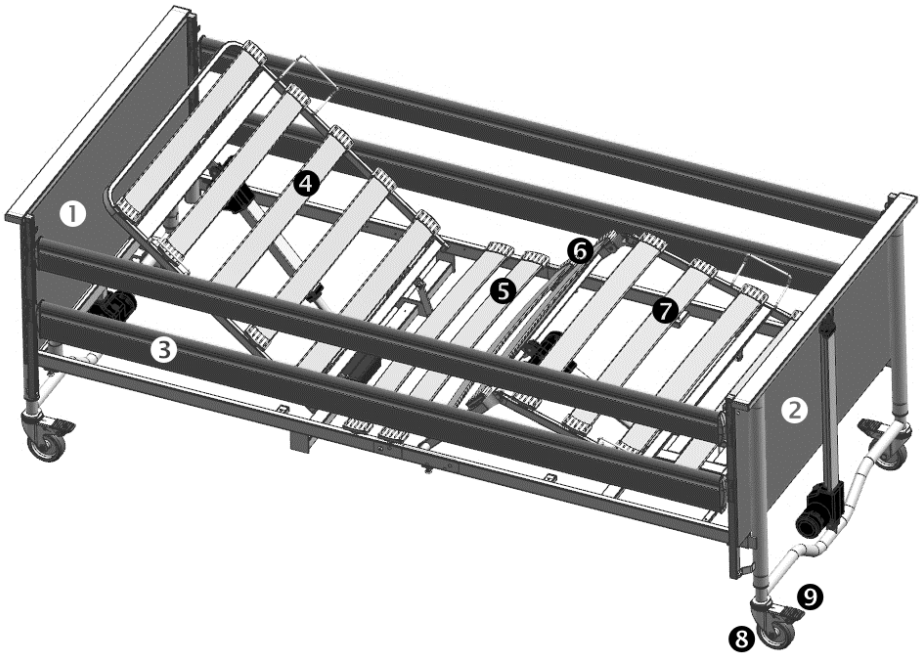
- REGULATION (EU) 2017/745 (MDR) of 5 April 2017 on medical devices
- DIRECTIVE 2011/65/EU of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The current declaration of conformity can be found on our website: www.bock.net

2.4.2 Applied standards and common specifications

EN 60601-1	EN 60601-1-11	EN ISO 10993-1
EN 60601-1-2	EN 60601-2-52	EN ISO 14971
EN 60601-1-6	EN 62366	EN ISO 15223-1

2.5 Product components



2.5.1 The lying surface with 4 function areas

The lying surface consists of a slatted comfort frame as standard (can alternatively be fitted with aluminium slats) and is divided into four functional areas:

- Backrest ❹
- Fixed seat part ❺
- Upper leg rest ❻ and
- Lower leg rest ❼.

Depending on the version, the lying surface elements can be adjusted using single drives (shown in the fig.) or a dual drive.

2.5.2 The chassis

The chassis consists of two identical end panels ❶❷ connected to each other by means of a lying surface frame. The height is adjusted using actuators attached to the end panels. The bed can be moved within the room on four castors ❽ which can be individually locked by means of brake levers ❾.

2.5.3 The side rails

Each nursing care bed is fitted with two side rails ❸ at a special safety height on both sides. The side rails run in a guide rail and can be raised or lowered using a release button. The sliders are fitted with an impact damper.

2.5.4 Electric parts

2.5.4.1 The drive units

Depending on the model (see 2.2), the drive unit consists of a dual drive or two individual linear drives for the electrically adjustable backrest and the upper/lower leg rests:

- domiflex® 3: System with dual drive
- domiflex® 3 plus: System with individual linear drives

The bed is height-adjusted via an individual linear drive in each end panel. The motors and the hand control are connected to the dual drive or the control box. In the power supply unit, the input voltage is converted into a safety extra-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 realised via one or two 9-volt block batteries (right in the fig.).

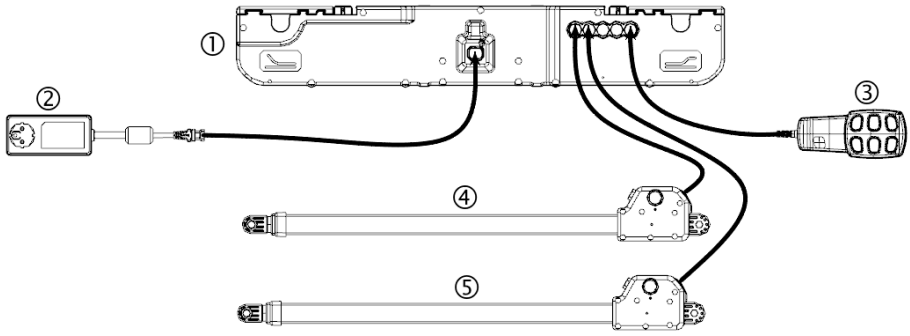
The drive units offer protection against electric shock in accordance with protection class II. Splash water protection is provided in accordance with protection classes IPX4 or IPX6 (for the "wash" versions).

WARNING

Danger due to failure of the emergency lowering system

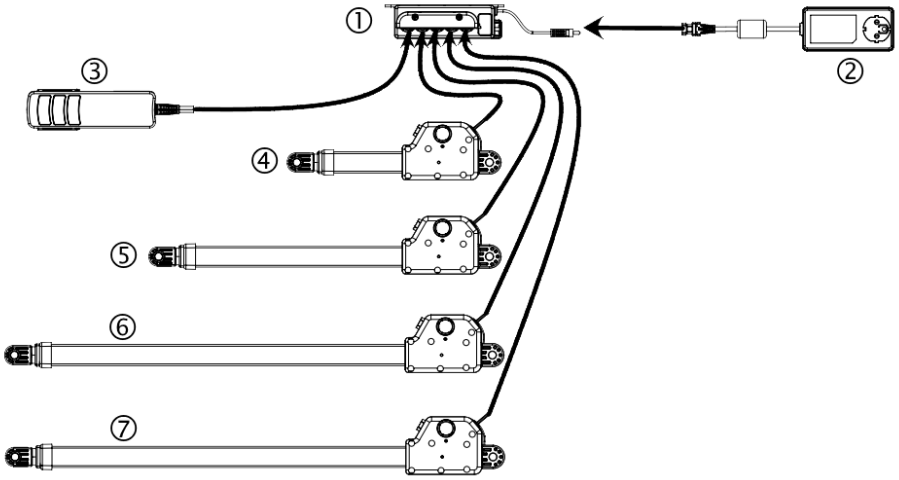
The 9-volt batteries must be checked for functionality once a year and replaced, if necessary, especially after the emergency lowering function has been used once. In addition, regular visual inspections must be carried out.

2.5.4.1.1 Dual drive system - domiflex® 3



① dual drive	② external switched-mode power supply (SMPS)
③ hand control	④⑤ end panel motor

2.5.4.1.2 Drive system with individual linear drives - domiflex® 3 plus



① controller box	② external switched-mode power supply (SMPS)
③ hand control	④ upper/lower leg rest motor
⑤ backrest motor	⑥⑦ end panel motor

2.5.4.2 The external switch mode power supply (SMPS)

The drive has a primary fuse in the mains adapter. The switch-mode power supply (SMPS) is an electronic transformer that heats up only slightly under load and has built-in electronic power 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 offers safety from the

socket, as it converts the mains voltage directly into the safety extra-low voltage with which the nursing care bed is operated. It is connected to the mains supply line feeder by means of a coupling so that it can be replaced separately if it is defective.

The power supply unit complies with the European directives for electrical household appliances and therefore has a low energy consumption of max. 0.5 watts even in standby mode and can be used with input voltages from 200 V to 240 V.

The SMPS power adapter has an LED that can indicate the following operating states:

- LED On: Ready for operation
- LED Off: Discharged, not connected
- LED Flashing: Error, thermal overload, or short circuit

After disconnecting the mains plug or the connection to the motor, the LED "glows" and then goes out.

2.5.4.3 Hand control

The basic functions can be controlled via the hand control at the touch of a finger on the operating buttons. The individual keys are marked with corresponding symbols. The motors run until as long as a corresponding key is pressed and held. A coiled cable allows the necessary freedom of movement while operating.

The hand control can be hung on the nursing care bed using the hanging device mounted on the back - especially during cleaning and care. This means that a possible disruptive position of the hand control can be avoided by simply attaching it to a suitable position on the nursing care bed.

An explanation of the functional elements of the hand control can be found at 5.2.2.

2.5.5 Accessories

WARNING

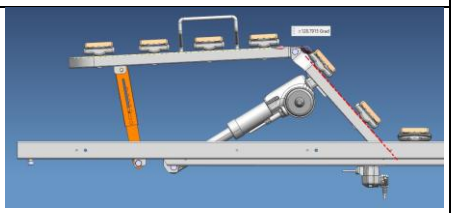
Risk of injury due to jamming

Only use accessories approved by Hermann Bock GmbH for your nursing care bed!

When using accessories on the nursing care bed or using medically necessary equipment, e.g. infusion stands, in the immediate vicinity of the nursing care bed, particular care must be taken to ensure that no crushing or shearing points are created for the person in the nursing care bed when adjusting the back and leg rests.

Item No.	400	Designation:	Bed extension
■ To extend the lying surface to 220 cm ■ Weight: 15 kg ■ Incl. side rail bar 220 cm ■ **Attention:** Older versions of the bed extension cannot be used with the current domiflex® 3!			
Item No.	92320	**Designation:**	Lifting pole with triangle handle
■ Included in the scope of delivery as standard ■ The overall height of all nursing care beds described in these instructions is increased by 890 mm when using a lifting pole. ■ Safe working load: 75 kg ■ Weight: 6.5 kg			
Item No.	890.01581 (beige) 890.01806 (blue)	**Designation:**	Side rail bumpers
■ For padding the side rail bars ■ Reduces the risk of jamming for patients with special anatomical risks ■ Weight: 1.4 kg			 
Item No.	90950	**Designation:**	Side rail height extension
■ To raise the side rail height by 10 cm ■ When using mattresses with a height of > 16 cm (maximum 26 cm) ■ Tool-free assembly ■ Weight: 3 kg			
Item No.	405	**Designation:**	Mobilisation aid with support cross bar
■ Locking in 90° steps possible ■ Safe working load: 40 kg ■ Weight: 3 kg			 

Item No.	92712	Designation:	Reinforcement bars (set)
■ To increase the safe capacity and the maximum patient weight of the domiflex® 3 ■ Assembly required on both sides ■ Safe working load: 220 kg ■ Maximum patient weight: 185 kg ■ Weight: 9.6 kg			
Item No.	92881	**Designation:**	Reinforcement brackets (set)
■ Only available for deliveries outside Germany ■ To increase the safe capacity and the maximum patient weight of the domiflex® 3 ■ Assembly required on both sides ■ Side rails must be installed on the nursing care bed ■ Safe working load: 220 kg ■ Maximum patient weight: 185 kg ■ Weight: 0.75 kg			
Item No.	800.00507	**Designation:**	Hand control with Trendelenburg function
■ To use - Trendelenburg position - Anti-Trendelenburg position - Comfort position ■ Use only by professional caregivers ■ Weight: 0.3 kg			
Item No.	414	**Designation:**	SR2 side rail
■ Side rail for folding down ■ Alternative to the standard side rails ■ Covers 2/3 of the lying surface length ■ Weight: 6.1 kg			

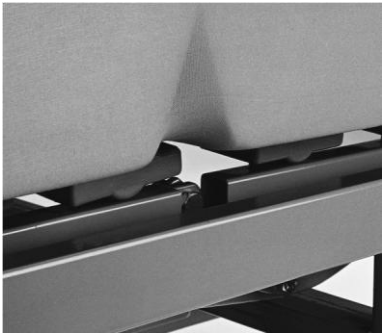
Item No.	920.04743	Designation:	Lower leg rest ratchet adjustment
■ A ratchet can be installed in the foot area ■ Adjustment of the lower leg rest to 90° possible ■ Weight: 0.5 kg			
Item No.	920.04758	**Designation:**	domiflex 3 screw set
■ For optional screw connection; as a supplement to the pull catches (set of 4)			
Item No.	206.00395	**Designation:**	9-volt block battery
■ For emergency lowering on the dual drive or on the control box			

2.5.6 Requirements for mattresses

In principle, all foam and latex mattresses that fulfil the following specifications can be used for Hermann Bock GmbH nursing care beds:

Dimensions (W x L)	According to the dimensions of the lying surface
Volume weight	At least 35kg/m^3
Height	At least 10 cm, maximum 16 cm

For higher mattresses, an additional push-on attachment guard (side rail height extension, see 2.5.5) must be used, which is available as an accessory. The height of the side rail above the mattress must be at least 22 cm.

When using foam mattresses, we recommended the use of a cut foam mattress to allow a better combination with the lying surface.	

3 Safety instructions

3.1 Safe use of the nursing care bed

Proper use of the nursing care bed is just as important for avoiding danger to the person in need of care as it is for the safety of relatives and/or caregivers. The prerequisite for this is correct assembly and operation of the nursing care bed. The individual physique of the person in need of care and the type and extent of the disability must also be taken into account when operating the nursing care bed.

WARNING

Risk of injury due to incorrect operation

The nursing care bed may only be operated by trained caregivers or relatives or in the presence of trained persons.

WARNING

Risk of injury due to unintentional motorised adjustments

Before the user, e.g. the caregivers or caregiving relatives leave the room, the

- lying surface must be moved to the lowest position,
- locking function must be activated by turning the key in the keylock on the rear of the hand control,
- key must be removed and
- functions of the hand control checked they are actually locked.

WARNING

Risk of injury due to jamming

- Only use accessories approved by Hermann Bock GmbH for your nursing care bed! This applies in particular to side rails.
- Before adjusting the lying surface, take particular care to ensure that there are no limbs between the side rails! Even if the side rails have been adjusted, care must be taken to ensure that the person being cared for is lying in the correct position.
- Before making an electrical adjustment, always check whether there are any limbs in the adjustment area between the chassis and the head or foot part or even people or pets between the floor and the raised lying surface! Danger of being crushed is particularly high in these areas.

These measures should be taken in particular,

- if the person in need of care is unable to safely operate the hand control due to certain disabilities,
- if the person in need of care or the caregivers could be endangered by unintentional 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 same room as the nursing care bed.

WARNING

Risk of injury

In the event of a malfunction or functional failure, persons in the nursing care bed must be removed from the nursing care bed immediately.

Service and maintenance must not be carried out while the nursing care bed is being used by one person.

WARNING

Risk of injury due to electric shock

The beds come with no special connection options for a potential equalisation.

Do not use medical electrical devices that are connected to the patient intravascularly or intracardially at the same time as this nursing care bed!

The operator of the medical devices is responsible for ensuring that the combination of devices fulfils the requirements for electrical safety (EN 60601-1).

ATTENTION

Risk of damage during adjustment

Before adjusting the lying surface, make sure that there are no objects in the immediate vicinity or underneath the nursing care bed.

ATTENTION

Risk of damage to the hand control/operating unit

Always ensure that the hand control or controller unit is securely attached to the nursing care bed with the support hook when not in use and cannot fall down.

The permissible patient weight depends on the total weight of the accessories attached at the same time (mattresses or additional medical electrical equipment). For safe working load, please refer to the type plate on the lying surface frame of the bed.

ATTENTION

Risk of damage due to improper use

The nursing care bed may only be used for the care and positioning of persons. The adjustment options on the head and foot section are used exclusively for the variable positioning of the respective body area of a patient. The nursing care bed may only be used for its intended purpose and must not be misused or used improperly.

The back and leg sections must not be loaded with the full body weight (e.g. by sitting on the back rest).

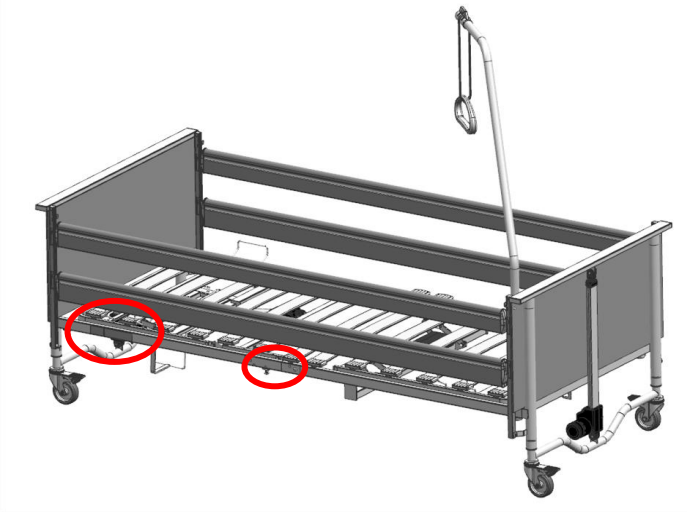
To take the nursing care bed out of operation and safely switch it off, pull the mains plug out of the socket.

3.2 Safety information on the product and packaging

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

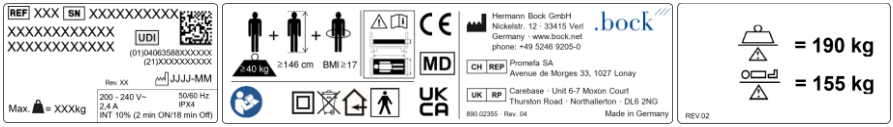
3.2.1 Positioning the type plates

The type plates are located on the frame of the lying surface, on the foot section:



For products in the domiflex® 3 model series, the maximum patient weight and the safe capacity are indicated on a separate label in the centre of the lying surface. By installing reinforcement elements (see 4.2.4.6 and 4.2.4.7), the original labelling is covered by the indication of the increased maximum patient weight or the increased safe capacity.

3.2.2 Individual and general type plate, labelling safe working load

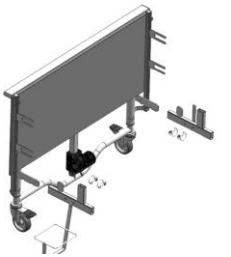
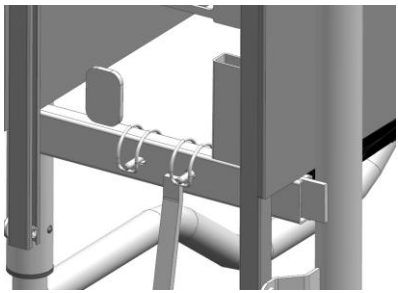
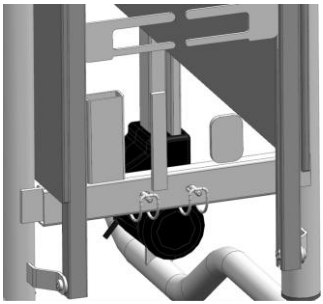


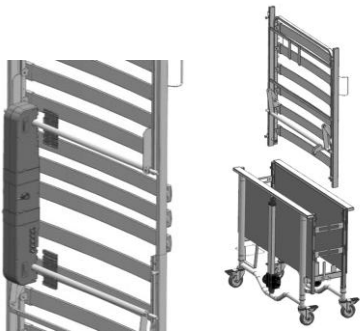
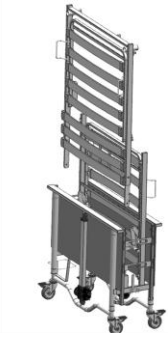
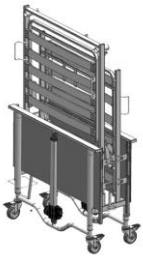
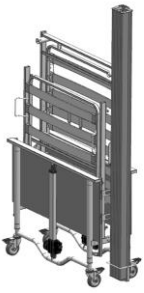
3.2.3 Explanation of the symbols

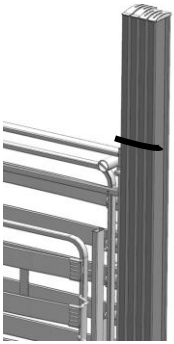
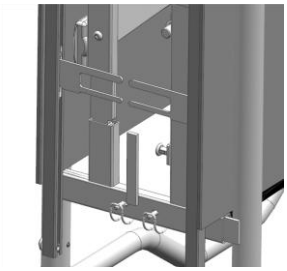
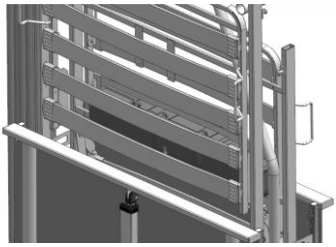
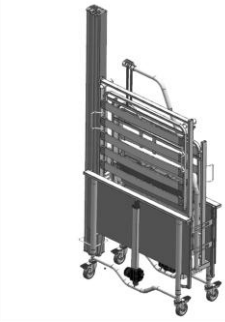
REF	Item numbers	=	Maximum patient weight
SN	Serial number	=	Safe working load
UDI	Unique Device Identification according to MDR	max.	Maximum total mass of the nursing care bed including the safe working load
	Production date (year - month)	MD	Medical device
CE	CE conformity mark according to MDR	≥240 kg ≥146 cm BMI≥17	Physical description of an adult
	Follow the instructions for use		Follow the instructions appropriate for mattress size and thickness
IPX4/IPX6	Protection of electrical equipment against splashing water		Address of the manufacturer
	Type BF medical application part	UK CA	UK conformity labelling (United Kingdom)
	Use only in dry rooms	UK RP	UK Responsible Person (United Kingdom)
	Protection class II (double insulation, insulated for protection)	CH REP	Swiss authorised representative
	Within the European Union, this product must be disposed via the separated municipal waste. Product may not be disposed of via household waste.		

4 Preparation

4.1 Transport using the domiflex® 3 transport system

The transport system consists of two connecting pieces, each of which creates a connection between the end panels with two tube clip connectors.	
Slide in both end panels.	
Insert and close the tube clip connectors from the inside to the outside as shown in the figure.	
Insert the tube clip connectors on the opposite side.	

Only domiflex® 3: Dismantle the dual drive by loosening the sliders, removing the motor and replacing the sliders. Then insert the foot section lying surface from above. The mattress brackets point upwards and outwards.	
Insert the head section lying surface from above. The mattress brackets point upwards and outwards. **Only domiflex® 3 plus:** Then insert the foot section lying surface from above. The mattress brackets point upwards and outwards.	
Visual inspection of the assembly with the specified figure.	
The side rail system can now be attached.	

Then secure the side rails to the upper side of the head section lying surface using the support securing strap.	
The lifting pole can then be inserted. This is placed on the existing free flat steel. The lifting pole should point inwards. Take care not to damage the tool-free connection.	
For the version with dual drive: Fold out the head part of the lying surface, place the dual drive incl. transformer and hand control on the round tube crossbar. Then close the head part and secure it against opening with the triangle handle.	
Enclosed is an overall picture of the complete transport unit.	

4.2 Installation

4.2.1 Requirements for the installation location

WARNING

Risk of injuries, fires and electric shocks

Ensure that the nursing care bed is located at an appropriate distance from curtains, blinds, heaters and sockets with which the nursing care bed may collide or come into contact, especially when being adjusted.

WARNING

Damage due to mutual interference between electrical devices

Avoid using the nursing care bed together with other electrical (medical) devices.

If the use of additional equipment cannot be avoided, the bed and all additional equipment must be checked for correct operation by trained specialist personnel during the entire operation.

Apart from the necessary adjustment, the functions of the bed must be deactivated via the integrated locking function of the hand control for the duration of operation of the additional devices.

WARNING

Damage due to interference from portable communication devices

Using the nursing care bed directly next to portable communication devices can lead to incorrect operation.

Portable communication devices, including their accessories, such as antenna cables and external antennas, should be kept at least 30 cm away from the electrical parts and cables of the nursing care bed.

WARNING

Risk of injury

Ensure that the nursing care bed is positioned so that the power supply unit is easily accessible and that the nursing care bed can be easily disconnected from the power supply!

CAUTION

Danger from small parts within reach of the patient

Make sure that medication, cords, rubber bands, small toys or other small objects such as money cannot be reached from any position in the nursing care bed!

ATTENTION

Risk of damage to the nursing care bed due to objects in the immediate vicinity or unsuitable positioning

Objects in the vicinity of the nursing care bed, e.g. chests of drawers, radiators, etc. can damage the bed during adjustment. The power supply unit can also be damaged if it collides with the nursing care bed during height adjustment.

Observe sufficient safety distances during installation!

ATTENTION

Risk of damage to the floor due to unsuitable covering

The subfloor should comply with the recommendations of the MMFA Multilayer Modular Flooring Association (mmfa.eu) to avoid floor indentations. Technical information FEB No. 3 can serve as a reference.

Hermann Bock GmbH is not liable for damage that may occur on the floor as a result of everyday use.

ATTENTION

Possibility of mutual electromagnetic interference

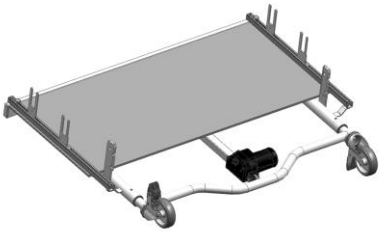
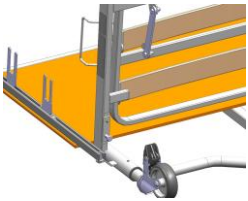
If electrical appliances are used at the same time, small electromagnetic interactions may occur, particularly in the immediate vicinity of the ready-to-use nursing care bed, e.g. noise from the radio. In such rare events, increase the distance of the devices. Do not use the same socket or temporarily switch off the interference source and/or the disturbing or disturbed device.

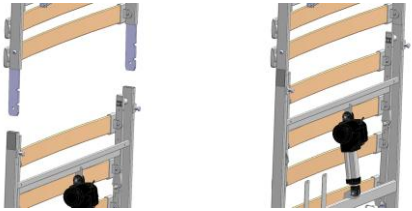
4.2.2 Delivery includes

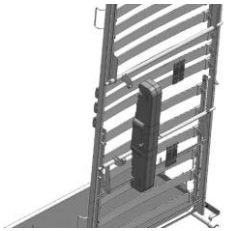
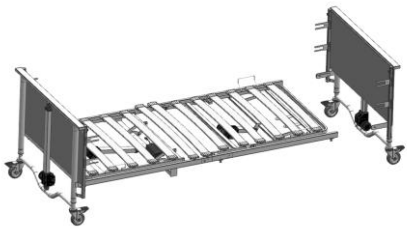
Check that the delivery is complete before starting assembly:

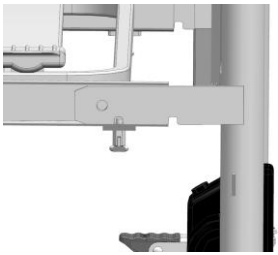
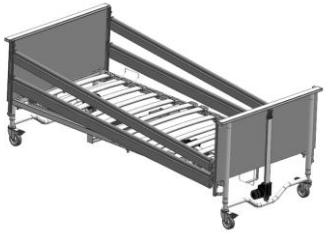
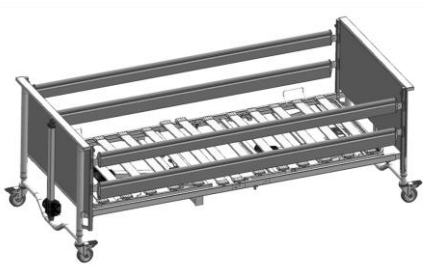
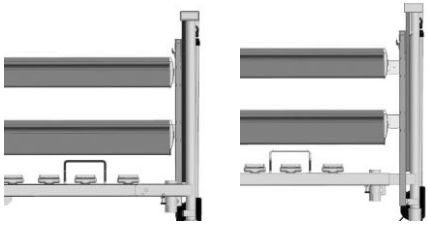
- 2 end panels with actuators
- 2 lying surface sections (for domiflex® 3 plus, individual drives are pre-installed)
- 4 side rail bars
- Dual drive (domiflex® 3) or control box (domiflex® 3 plus)
- Hand control
- Lifting pole bar with triangle handle
- Transport system (4.1)
- Assembly and operation manual
- Quick reference guide

4.2.3 Assembly of the product

Before you begin with the assembly, all packaging residues (incl. the cable ties) must be completely removed. Remove the protective film from the 9-volt batteries and connect them to the dual drive or the control box. Place an end panel on the floor as shown in the figure on the right.	
Take the foot section lying surface, this does not have a holder for the lifting pole. The tension catches should be set to the locking position before attaching the lying surface so that it can be pushed open completely.	
Connect the lying surface to the end panel by placing the lying surface on the mounting latches of the connectors. By positioning them slightly diagonally, the connection mounts are easier to find and the assembly is more back-friendly.	
Ensure that the tool-free connection is plugged in up to the second holding point. Then return the pull catch to the engaged position.	 

Check that the lying surface is correctly connected to the end panel. The pull catch must be engaged.	
Take the head section lying surface.	
Place the head section lying surface on the foot section lying surface. The tool-free connection must then engage. By positioning them slightly diagonally, the connection mounts are easier to find and assembly is more back-friendly.	
You can now connect the connections for the footrest motor and the end panel actuators to the control box according to the labelling (symbol image, colour coding) (see chapter 2.5.4.1.2). The hand control and the backrest motor are already connected.	

The following steps only apply to the domiflex® 3 version with dual drive	
To assemble the dual drive, take it and the two cover plates.	
Press the motor over the motor cams. The symbols and the connection cables must point inwards.	
Slide the cover plates sideways into the locking mechanism of the dual drive.	
On the domiflex® 3, the assembly of the dual drive is now complete. **The single drives of the domiflex® 3 plus are permanently mounted and only need to be connected during assembly.** **For the connections of the motor systems, see chapter 2.5.4.1.1 / Chapter 2.5.4.1.2.**	
Take the second end panel.	

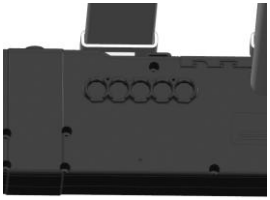
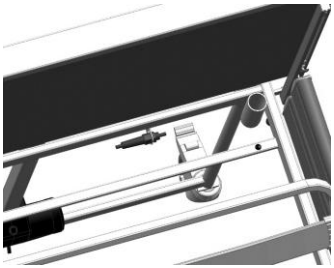
Push the end panel into the head section lying surface until it clicks into place. This is the installation and removal position for the side rails.	
Mount the side rails. These can be installed in the diagonal position. Pay attention to the "top" and "bottom" labelling on the plugs (end caps). This indicates whether it is the upper or lower rail. The lower rail is higher.	
Pull all the side rails upwards.	
Then slide the end panel into the second locking position of the tool-free connector. This is the final position of the latching.	

Check all tool-free connections for secure latching. **Make absolutely sure that the catches are engaged!** Note: If desired, M8x16mm wing screws (accessories, 2.5.5) can also be screwed in next to the tension catches.	

ATTENTION

Risk of damage to the electrical cables

- The cable should be laid outside the area where damage can occur.
- Contact with sharp-edged parts should be avoided.
- Cables must not be crushed.

Depending on the version, connect the drives according to the overview in chapter 2.5.4.1.1 or 2.5.4.1.2. Observe the colour coding of the plugs and the marking of the head and foot end panel motor connections. Then screw on the cover cap for the plug connections. The cables should be routed over the cross struts of the lying surface elements.	**Connections on the dual drive:**  **Control box for single drives:** 
On the domiflex® 3, the mains cable must be screwed to the lug on the lying surface using the strain relief provided on the cable. This is already pre-installed in the domiflex® 3 plus.	

Insert the lifting pole into the holder. Make sure that it is locked in place with the groove. Carry out a complete inspection of the nursing care bed using the inspection list in chapter 7. Your product is now ready for use.	

WARNING

Risk of injury due to incorrect assembly

The nursing care bed must be inspected before each use.

Use the inspection list in chapter 7 for this purpose.

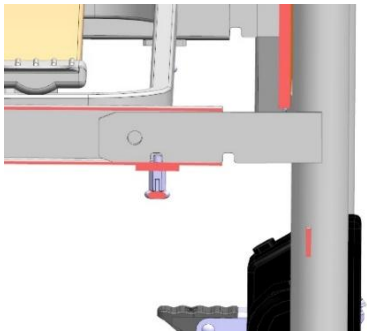
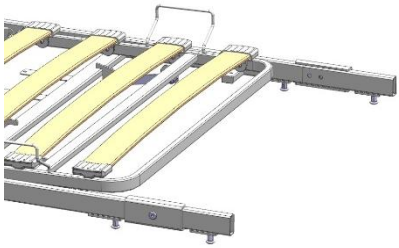
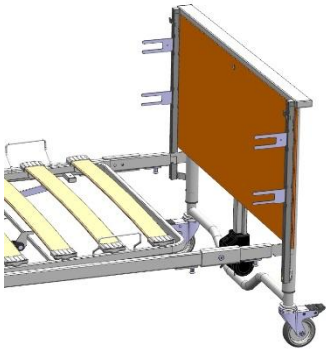
4.2.4 Assembly the accessories

4.2.4.1 Assembly of the bed extension

ATTENTION

Before installation, make sure you know which version of the bed extension you have for the lying surface frame. Older versions of the frame extension are not compatible with the current version of the domiflex® 3. However, the current bed extension can be used for both bed models.

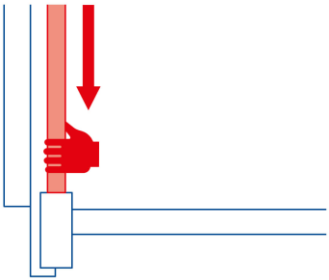
Current version of the frame extension	
Dismantle the end panel on the foot section. To do this, loosen the tool-free connection.	

Pull the end panel out of the lying surface until it snaps into place for the first time. This is the installation and removal position for the side rails.	
Position the side rails diagonally and remove them. Then completely dismantle the end panel.	
Insert the frame extensions and lock them in place with the tool-free connection of the lying surface.	
Insert the foot end panel into the extension of the frame and push it in until it clicks into place. This is again the installation and removal position for the side rails (220cm)	

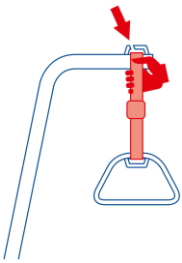
Insert the new side rails diagonally.	
Slide the foot end panel into the second latching position. **Note:** If required, additional wing screws M8x16mm (accessories) can be screwed in next to the tension catches.	
Locate the lying surface extender and insert it at the end of the foot bar of the lying surface, as shown in the figure.	
Put the extension bar down so that the lying surface is flat.	

Once this step has been successfully completed, the assembly of the nursing care bed extension is finished.	

4.2.4.2 Assembly of the lifting pole with triangle handle



Place the lifting pole with triangle handle in the provided socket on the headboard and adjust it accordingly.



Insert the triangle handle in the eyebolt.

4.2.4.3 Assembly of the side rail bumpers

For assembly, open the zipper (or, depending on the version of the hook and loop fastener) of the cover and pull it onto the side rails from above. Pull the foam padding into the cover from the inside of the nursing care bed and close the zip or hook and loop fastener.

4.2.4.4 Assembly of the side rail height extender

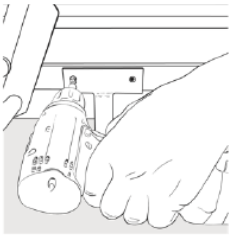
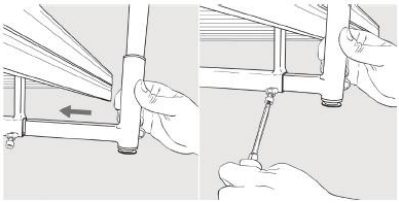
Open the plastic latch, attach the side rail height extender, position it in the middle of the rail and close the lock. Please make sure that the release button of the side rail height extender faces outwards.

WARNING

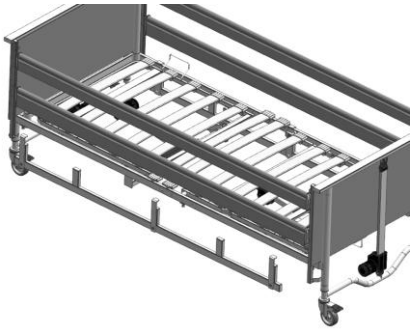
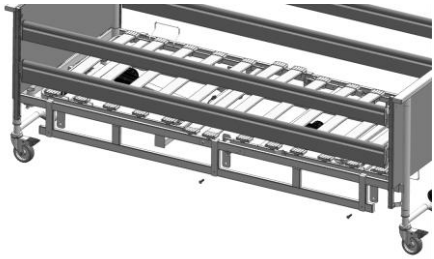
Risk of injury when using third-party side rails

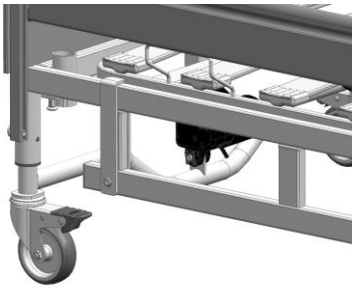
The side rail height extender is designed exclusively for use with all wooden side rail variants from Hermann Bock GmbH.

4.2.4.5 Assembly of the mobilisation aid with support cross bar

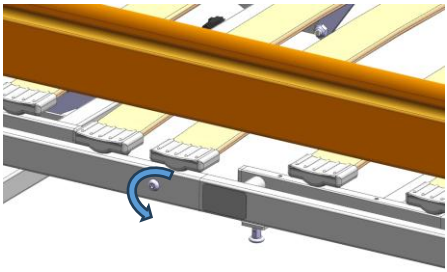
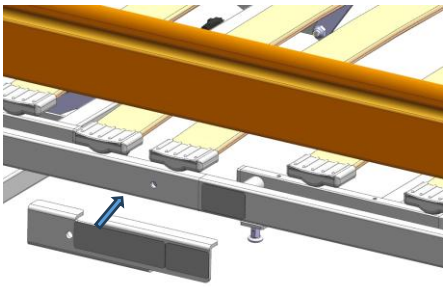
	
Use the provided screws to fasten the cross beam to the lying surface frame.	Push the assist handle into the support cross-bar, adjust it to the desired position and fasten it tightly.

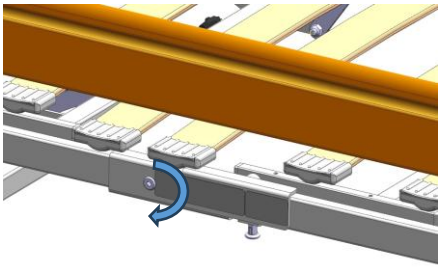
4.2.4.6 Assembly of the reinforcement bars 185 kg

Remove the reinforcement bars from the packaging.	
Attach the reinforcement bars to the centre of the bed frame and mount them using the screws supplied. Start with the centre screw connection.	

Tighten the screw connection firmly.	
Make absolutely sure that the reinforcement bars are fitted on both sides. Your domiflex® 3 or domiflex® 3 plus with reinforcement bars is now ready for use.	

4.2.4.7 Assembly of the reinforcement brackets

Loosen the M8x16 threaded screw with a size 5 Allen key and remove it.	
Take the reinforcement brackets for the right-hand side in this illustration and slide it over the longitudinal frame. The hole in the plate must be aligned with the hole in the longitudinal frame.	

Take the M8x20 screw supplied and fasten it to the longitudinal frame together with the reinforcement rail using a size 5 Allen key. Make sure that the plates already in the longitudinal frame do not lose their position.	

Repeat these steps on the second side of the bed. Assembly of the reinforcement brackets is then complete.

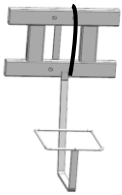
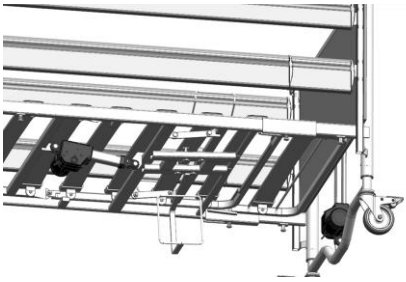
Make absolutely sure that the reinforcement brackets are fitted on both sides.

4.2.4.8 Assembly of the Trendelenburg hand control

- Disconnect the nursing care bed from the power supply
- Disconnect the standard hand control from the control box or dual drive
- Connect Trendelenburg hand control to the control box or dual drive

4.2.5 domiflex® 3 - storing the transport system

A holder has been integrated under the lying surface so that the transport system is always ready for use on the bed. Observe the following steps to stow the transport system.

Reverse the transport system at the lying surface connectors and secure it with the support securing strap.	
Place the transport system on the two holders underneath the lower leg rest on the lying surface and secure it with the tube clip connectors.	

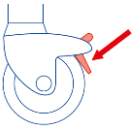
5 Operation

5.1 Putting into operation

Ensure that the product has been properly installed and tested and that the requirements for the installation location are met. Insert the mains plug into a socket that is easily accessible for disconnection from the mains voltage in an emergency.

5.2 Operation of the product

5.2.1 Operating the brakes



To fix the nursing care bed in one position, the brakes on the castors of the chassis frame must be locked. To accomplish this, use your foot to move the locking lever on the chassis downwards.

5.2.2 Operating the electric adjustment functions

WARNING

Danger due to non-operational readiness

If the maximum adjustment time of two minutes is exceeded, for example by continuously pressing the hand control, and the motors overheat, the thermal fuse immediately switches off the power supply to the nursing care bed completely. After a cooling down time of approx. one hour, the power will be automatically supplied again.

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

The functions of the nursing care bed can be controlled at the touch of a finger on the control buttons of the hand control. The individual keys are marked with corresponding symbols. The servomotors run continuously as long as a corresponding button is held down.


Back rest upwards


Lower leg part upwards


Lying surface upwards


Comfort sitting position * (upwards only **)


Lighting on/off *


Head down position (Trendelenburg) * - Use only by professional caregivers!


Back rest downwards


Lower leg part downwards


Lying surface downwards


Enable low function *


Foot down position (Anti Trendelenburg)*

* available depending on model ** The comfort sitting position only moves upwards. All adjusted positions must be lowered separately.

If the lifting drives do not move synchronously and this leads to the lying surface being tilted, move the lying surface height to the upper or lower end position. This enables automatic equalisation of the two lifting drives and thus a horizontal lying surface.

domiflex® 3 low - going down

The domiflex® 3 low version has a comfort exit position with a lying surface height of 34 cm. The bed stops automatically when it is lowered. If the bed is to be moved to its low position, the low function release button must be pressed once the comfort exit position has been reached.

WARNING

Risk of injury due to crushing when moving to the lowest height

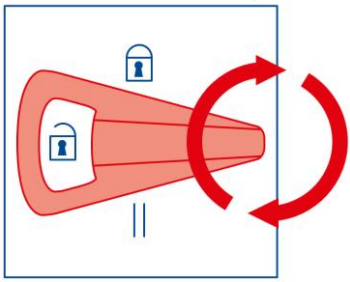
Before activating the low function, make sure that there are no body parts or objects under the bed. Pay particular attention to the possible risk of crushing a foot on the roller brake lever!

5.2.3 Locking the electrical adjustment 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.

Locking device 1 (standard)

Locking device symbols



Operating the locking device by turning the key

	All hand control functions disabled
All other positions	All functions executable

Locking device 2 (option with Trendelenburg function)

		Arrow to the left: Only Trendelenburg function disabled
		Up arrow: All hand control functions disabled
	 or	Arrow to the right or down: All functions executable (including Trendelenburg function, if available)

5.2.4 The operation of the continuous side rails

WARNING

Risk of injury due to crushing, jamming and catching points

- Only use original Bock side rails!
- Use only technically flawless and non-damaged side rails with the permissible gap dimensions.
- Make sure that the side rails are engaged securely!
- Only use the side rails in accordance with the operation described!
- Before attaching the side rail and before each re-use of the bed, check all mechanical parts on the nursing care bed frame and the side rail that secure the side rail for possible damage!

WARNING

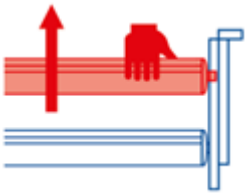
Risk of injury due to crushing during adjustment

Please note the increased risk of entrapment when adjusting the backrest and upper leg rest if the side rails are engaged!

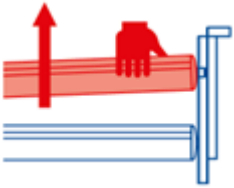
WARNING

The use of side rails can constitute a measure involving deprivation of liberty and may be legally considered an offense according to applicable national legislation. Make sure to act in accordance with the consent of the person concerned!

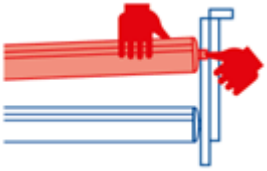
For safe use, the integrated side rails must be pulled up so far that they engage audibly. The minimum distance between the upper edge of the side rail and the mattress (without compression) must not be less than 22 cm. Depending on the mattress thickness, a side rail extension (see 2.5.5) must also be used.



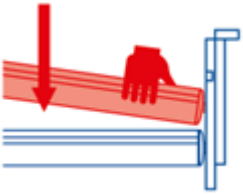
Move to the top position as fall-out protection: Pull the side rail upwards until you hear it click into place at the ends.



Lowering, step 1: Reach into the gripping groove of the upper side rail bar and lift the rail slightly on one side. Please note: Be sure to raise the side rail slightly, and only then press the release button! Otherwise damage possible!



Lowering, step 2: Press the release button.
The release button for adjusting the full-length side rail is located above the top side rail bar in the guide rail.



Lowering, step 3: The side rail opens at the corresponding place and can be easily lowered downwards as far as it will go. 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 lowered position.

Please observe: Both sides must be lowered!

ATTENTION

Risk of damage to the release

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

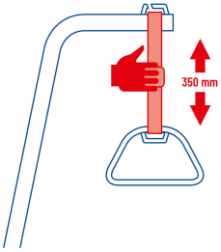
The side rails first and foremost serve as a fall prevention. In the case of very emaciated persons in the need of care, this protection may no longer be sufficiently provided by the side rails and additional protective measures must be taken, for example by additionally attaching push-fit side rail bumpers (see 2.5.5).

5.2.5 Operation of the lifting pole with triangle handle

WARNING

Risk of injury due to the bed tipping over

Do not swivel the lifting pole outside the lying surface!



The triangle handle is infinitely adjustable within a range of 350 mm. This allows an adjustment range between triangle handle and mattress of at least 550mm to 850mm, depending on the mattress thickness.

ATTENTION: The handle must always be released during length adjustment

Please note the safe working load of 75kg!

5.2.6 Operating the mobilisation aid

WARNING

Risk of injury due to crushing

The mobilisation aid can be locked into positions parallel and perpendicular to the lying surface. Do not swivel the mobilisation aid inside the lying surface, but only outside and parallel to the lying surface. Otherwise, there is a risk of crushing when adjusting the lying surface.

Please note the safe working load of 40kg!

5.2.7 Change of location within the building

The nursing care bed is **not** intended for transporting patients. The nursing care beds can only be moved within the patient's room - even when the patient is located in the bed - for cleaning or for better access to the patient, for example. If the nursing care bed is to be moved to another location, please observe the following safety instructions:

- No patient may be in the nursing care bed.
- 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 mains cable against falling and being crushed. Make sure that the cable is not dragged over the floor.
- Release the brakes. Lock the brakes again after transport.
- Before inserted the mains plug again, inspect the mains cable visually for mechanical damage (dents and kinks, abrasions and bare wires).

- Lay the mains cable so that it cannot be pulled, run over or endangered by moving parts of the nursing care bed during operation and plug the mains plug back in.
- After relocating the nursing care bed, check that it has been installed correctly (see chapter 7) before putting it back into operation (see chapter 5.1).

5.3 Putting out of operation

- Ensure that the brakes are locked.
- Move the side rails to the lowest position.
- Bring the lying surface to the lowest position.
- Lock the hand control and remove the key.
- Pull out the mains plug and secure it to the frame using the suspension device to prevent the mains cable from falling and being run over.
- If the bed is not expected to be used for some time, remove the battery(ies) from the motor.

5.4 Acting in emergency and exceptional situations

In the event of an unexpected interruption to the power supply or the control functions, proceed as follows:

- Move the patient to another nursing care bed.
- Take the nursing care bed out of operation (see 5.2.5).
- Follow the instructions for troubleshooting (see 8)

6 Cleaning, maintenance and disinfection

WARNING

Health risk due to infectious contamination

Clean and disinfect the nursing care bed every time you change users, before repair, storage or transport!

WARNING

Risk of injury

In order to avoid dangers in connection with cleaning and disinfection, you must first observe the following regulations in connection with the electrical parts of your nursing care bed. Non-observance of these guidelines may result in considerable damage of the electrical lines and the drive.

- Pull the mains plug and position it in such a way that contact with excessive amounts of water or detergents can be excluded.
- Check all plug-connections for correct position according to the instructions.
- 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.
- Before starting the operation, check the mains plug for residual moisture and dry or blow out the device, if necessary.
- On any suspicion of the intrusion of moisture into the electrical components, disconnect the mains plug immediately and do not re-establish the connection. Take the nursing care bed out of operation immediately, label it visibly and inform the operator.

ATTENTION

Possibility of damage to the product due to incorrect cleaning

Never use abrasive cleaners or cleaning pads containing abrasive particles or stainless steel care products for cleaning!

Do not use organic solvents such as halogenated/aromatic hydrocarbons and ketones as well as acidic and alkaline cleaning agents!

Under no circumstances should the nursing care bed be sprayed with a water hose or high-pressure cleaner, as liquid could penetrate the electrical parts and cause malfunctions and hazards.

Routine cleaning of the nursing care bed during use by the same patient is recommended every month or as required. Disinfection of the nursing care bed is only necessary if there is visible

contamination with infectious or potentially infectious material or if an infectious disease is present.

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:

The steel tubes of the frame construction are powder-coated to protect against corrosion and for easy cleaning. 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. Allow the lifting pole handle webbing to dry completely after each cleaning and disinfection so that no residual moisture remains in the webbing.

WARNING

Risk of injury due to water penetrating electrical components

This can lead to malfunctions of the controller unit and, as a result, to unintentional movements of the individual nursing care bed elements, which harbour an increased risk of injury for the person being cared for and the user.

Drive:

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

6.2 Disinfection

Disinfect the nursing care bed with a wipe disinfectant. In order to maintain the material resistance of plastic elements such as the motor housing and decorative elements, only mild and gentle disinfectants suitable for the respective surface should be used. Concentrated acids, aromatic and chlorinated hydrocarbons, high alcohols, ethers, esters and ketones attack the material and should not be used.

Follow the disinfectant manufacturer's instructions when disinfecting.

The following disinfectants have been successfully tested and approved by us with regard to their material compatibility:

Manufacturer	Designation	Concentration
Ecolab	Incidin Plus	0.5 % solution
Bode Chemie	Bacillol AF	0.5 % solution
Schülke (Schuelke)	Terralin Protect	0.5 % solution

6.3 Machine-aided cleaning

ATTENTION

Possibility of damage to the product

The suitability of domiflex® 3 beds for machine cleaning is limited to products with the suffix "wash" and the processes and parameters described in this chapter. Cleaning processes that deviate from this must be validated by the operator to ensure that the product is not damaged as a result.

Only electrical components with splash protection class IPX6 may remain on the nursing care bed and be washed during machine cleaning.

Remove all electrical components with a lower splash protection class, e.g. any installed dual drive including hand control and power supply unit!

After washing, the electrical components must be checked by trained specialists.

Necessary steps for machine cleaning

To prevent damage to the bed, it must be specially prepared for machine cleaning. The following steps are necessary to guarantee the service life and functionality.

- Move the bed to the lowest position.
- Place the nursing care bed on the transport bracket supplied (see 4.1).
- Check whether the housing of the drive components is undamaged (visual inspection)
- Check whether the end panel / lying surfaces with the washable electrical components are labelled as washable with the following sticker:
- Remove the side rail bars. These may only be cleaned manually. If the surface is damaged, mechanical cleaning leads to moisture penetrating the uprights and permanently damaging them.
- Remove the handle from the lifting pole for cleaning and disinfection.
- Seal all sockets of the controller unit with the attached blanking plugs.
- The nozzle outlet pressure (directly at the nozzle outlet) must not exceed 3 bar.

- The surface temperature of 55°C must not be exceeded during the washing and drying process. A washing temperature that is too low should also be avoided due to the resulting poor degree of drying.

ATTENTION

Possibility of damage to the product

After each wash cycle of a domiflex® 3 wash bed, the components must be sufficiently dried. Make sure that all open components are completely dry. The sockets and plugs of the electrical components must be free of moisture before use.

A comprehensive inspection of the beds must be carried out after each wash cycle. To do this, all parts of the bed must be checked. Please refer to the inspection list at the end of these instructions. Defective components must be replaced by trained specialists.

Washing parameters

The washability of our beds labelled as "wash" was tested using the following procedure:

- Washing system from Kluge & Fielitz, certified in accordance with DIN EN ISO 15883-5
- Dosing of cleaning agents, rinsing agents and disinfectants in accordance with the washing system manufacturer's specifications
- Nozzle outlet pressure (directly at the nozzle outlet) maximum 3 bar
- Maximum surface temperature 55°C

Cleaning agents and disinfectants

The following cleaning agents and disinfectants were successfully tested on the domiflex® 3 wash.

Cleaning agents	Disinfectant
neodisher MediClean forte	neodisher Deconta AF
neodisher MediKlar special	Neodisher Septo

The use of different cleaning agents, specifications and parameters must be validated by the operator in consultation with the washing system manufacturer. Hermann Bock GmbH accepts no liability for any resulting damage.

7 Maintenance

WARNING
Risk of injury
Maintenance work must not be carried out while the nursing care bed is being used by a person.

Maintenance measures are required to ensure the continued safe and proper operation of the nursing care beds. The persons authorised to do so must have the necessary expertise and observe the manufacturer's instructions.

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

7.1 Maintenance

The nursing care bed is largely maintenance-free. However, we recommend replacing the triangle handle after 5 years, even if there is no visible external damage. Replace the batteries for the emergency lowering function (see Accessories, 2.5.5) when their use-by date has expired or when the voltage is no longer sufficient for a **short** test lowering of the backrest.

7.2 Inspection

The nursing care bed must be inspected at least once a year and before and after each use. For support purposes, Hermann Bock GmbH will provide you with the inspection list in these instructions. You can copy them or download them from our website www.bock.net. The completed checklists serve as proof and must be kept.

7.3 Safety technical controls/testing of electrical safety

Safety technical controls in accordance with the Medical Devices Operator Ordinance are not mandatory for nursing care beds.

Regular electrical safety testing is not mandatory for nursing care beds with an external switched-mode power supply, as these are operated with safety extra-low voltage. As part of the inspection, however, it is necessary to check that the electrical components are free of damage and functioning properly. We also recommend checking the electrical safety of the external switching power supply unit.

The testing, evaluation and documentation of electrical tests may only be carried out by or under the supervision of competent persons, such as qualified electricians or electro technically instructed persons (EUP), who have knowledge of the relevant regulations and are able to recognise possible effects and hazards.

If required, please contact the Hermann Bock GmbH service department for regular inspections and instruction of the EUP.

Inspection list for bock nursing care beds	**Page 1 of 2**	**Issuing date: 01.09.2021 / Rev.08**
Model designation / year of manufacture:		.bock
Serial / Inventory-No.:		
Manufacturer:	Hermann Bock GmbH	

Visual inspection / functional testing:

No.	Description	Yes	No
General:			
1	Is the type plate/sticker on the nursing care bed present and legible?	☐	☐
2	Operating manual available?	☐	☐
3	Does the use by the operator correspond to the intended purpose?	☐	☐
4	Is the safe working load as per type plate (patient weight + mattress weight + accessory weight) observed?	☐	☐
5	Are the accessories (e.g. lifting pole incl. grab handle and belt, stand-up aid, wall protection wheels, etc.) safe and in perfect condition? Are all accessories securely fixed and without signs of wear? Is the handle on the lifting pole not older than 5 years (service life of the handle according to the manufacturer's specifications)? Is the correct lifting pole fixture (welded instead of edged) used or has it already been retrofitted?	☐	☐
6	With retrofitted lifting pole sleeve: Screw tightened to 6-9 NM?	☐	☐
7	Mechanical connecting elements (screws, bolts, etc.) complete and free of defects? Screws screwed in tight?	☐	☐
8	Are there any visible splinters, cracks or other damage to the wood?	☐	☐
Electric components:			
9	Mains cable, connecting cables and plugs without cable breaks, pressure and kinking points, abrasions, porous points and exposed wires?	☐	☐
10	Strain relief firmly fastened and efficient?	☐	☐
11	Correct and secure cable leading and cable connections?	☐	☐
12	Housings of motors and hand control without damages? Has moisture penetrated?	☐	☐
13	Is the power supply unit undamaged?	☐	☐
14	Motor lift pipes and clevis in perfect condition and without damage?	☐	☐
15	Testing of hand control (keys and disabling function) all working properly without any defects? Function of the limit switch given?	☐	☐
16	Battery/Monobloc battery/emergency lowering: Function properly and without any defects?	☐	☐
17	*Only for nursing care bed adi.flex:* Is the lift pipe sprayed with silicone spray?	☐	☐
Chassis (with scissors construction beds) / end panels (of actuator beds):			
18	Chassis construction free of defects with no ruptured welding seams?	☐	☐
19	Are the castors and bumper rollers (if available) without damages?	☐	☐
20	Plastic end caps and mechanical connecting elements (screws, bolts, etc.) complete and without damages?	☐	☐
21	Height adjustment properly and without any obstacles?	☐	☐
22	Safe braking effect, blocking and free running of wheels?	☐	☐
Lying surface and end panels:			
23	Wooden slats, aluminium/steel bars, carrier plate and/or springs without damages? (No cracks, no fractures, tight fit, enough pressure, etc.) *Only for nursing care bed dino:* Distance between aluminium slats less than 6 cm?	☐	☐
24	Frame of lying surface and lifting parts free of defects with no ruptured welding seams?	☐	☐

Inspection list for Bock nursing care beds	**Page 2 of 2**	**Issuing date: 01.09.2021 / Rev.08**
Client:		.bock®
Address:		
Location:		

No.	Description	Yes	No
25	Plastic end caps and mechanical connecting elements (screws, bolts, etc.) complete and without damages?	☐	☐
26	Tight fit and no cracks or breakages of head end panel and foot end panel?	☐	☐
27	Back rest, leg part adjustment and special functions properly and without any obstacles?	☐	☐
28	Safe ratchet mechanism of manual foot part adjustment (if available) in every step, even under stress?	☐	☐
29	*Domiflex® 2 nursing care bed only:* Is the clamping effect of the 6 eccentric clamps sufficient? The lock nut must be tightened to at least 6 NM!	☐	☐
Side rail:			
30	Are the side rails without cracks, breakages or damages?	☐	☐
31	Is the distance between the side rails less than 12 cm?? *Only nursing care bed dino:* Distance between bars less than 6 cm? Distance between side rail and lying surface smaller than 6 cm?	☐	☐
32	Is the height of the side rail above the mattress at least 22 cm? *Only nursing care bed dino:* Is the height of the side rail above the mattress at least 60 cm?	☐	☐
33	*Only with divided side rails:* Is the distance between the end panel and side rails and/or distance between divided side rails less than 6 cm or greater than 31.8 cm?	☐	☐
34	Are the side rails running smoothly in the tracks and locking into place safely? *Only nursing care bed dino:* Smooth running of the doors on the aluminium profiles? Doors lock securely into the locking mechanism?	☐	☐
35	Are the side rail bars/parts sufficiently mounted and firmly seated?	☐	☐
36	Was the load stress test of the side rail without deformation?	☐	☐
37		☐	☐
Electric measuring:			
Insulation resistance - (must be only measured on old models before manufacture year of 2002.)			
38	Insulation resistance – measured value larger than 7 MΩ?	☐	☐
Device leakage current - (This measurement does not have to be carried out for nursing care beds with a limoss drive set for nursing care beds manufactured from 2018-05 onwards, or for nursing care beds with a Dewert drive set for nursing care beds manufactured from 2015-07 onwards during the first 10 years of service life, if the visual and functional testing is passed, if this is a nursing care bed with a limoss or Dewert switched-mode power supply (SMPS). With these nursing care beds, the mains voltage is directly converted into a safety extra-low voltage of max. 35 V in the switch-mode power supply unit.)			
39	Device leakage current - measured value smaller than 0.1mA?	☐	☐
Evaluation			
40	All values/inspection within the permissible range passed?	☐	☐
In the event the inspection result did not pass:		☐Repair ☐Sort out	
Date / name of examiner in block capitals / signature of examiner		**Next inspection**	

8 Troubleshooting

8.1 Safety instructions

WARNING

Risk of injury

Maintenance work must not be carried out while the nursing care bed is being used by a person.

DANGER

Danger to life due to electric shock

Do not try to fix failures on the electrical equipment itself. It could be fatal! Contact either Hermann Bock GmbH customer service or authorised electricians to rectify the fault in compliance with all relevant safety regulations.

DANGER

Danger to life due to electric shock

The drive components must not be opened!

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

ATTENTION

Obligation to report incidents

Acc. to MDR, the user and/or patient is obliged to report all serious incidents related to this device to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

8.2 Error analysis and possible measures

The following overview shows you which malfunctions you can check and easily rectify yourself. Other faults must be rectified by specialised personnel. Move the patient to another bed and take the defective bed out of operation (see 5.3).

Malfunction	Potential causes	Remedy
The drive units cannot be controlled via the hand control	Mains cable is not connected	Insert mains 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 Hermann Bock GmbH 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.
Lifting actuators do not move in parallel	As the motors are not synchronised, multiple up and down movements can result in a height difference between the end panels	Move the motors all the way up or down to restore the parallelism of the end panels.

9 Disassembly, processing and disposal

9.1 Disassembly

Pull out the mains plug before disassembly. The nursing care bed is dismantled in reverse order to the assembly instructions (see 4.2.2).

9.2 Processing and recycling

9.2.1 Sustainable use through reprocessing and refurbishment

Your nursing care bed is designed to last and has been produced using high-quality materials. If you are considering disposal, Hermann Bock GmbH will be happy to check the options for reprocessing or refurbishment in accordance with current safety and performance standards on request.

bock.net/refurbishment

9.2.2 Recycling

Each of the components made of plastic, metal and wood are recyclable and can be disposed/recycled in compliance with the relevant legal provisions.

9.3 Disposal of the product

9.3.1 Disposal of electrical components

Please note that electrically adjustable nursing care bed are to be considered as commercially used electrical waste (b2b) according to the Directive 2012/19/EU. All replaced electrical and electronic components of the electrical adjustment system must be handled in accordance with the applicable national regulations and disposed of properly.

9.3.2 Disposal of packaging material

The packaging material must be sorted according to recyclable components and recycled or disposed of in accordance with the applicable environmental regulations of the respective country.

9.3.3 Disposal of batteries

Batteries must be disposed of properly in accordance with Directive 2006/66/EC (Battery Directive) and must not be disposed of with household waste.

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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 recognised. You can rely on our business partners as you can rely on us. Please note that training, spare parts supply, repairs and other services can only be guaranteed by our authorised personnel and our sales partners. Unauthorised technical modifications to the product, improper maintenance and the use of non-original spare parts will invalidate all warranty claims.
A listing of our current distributors can be found under
www.bock.net/kontakt/vertriebspartner

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Rev. 02