

■ ■ wissner-  
■ ■ bosserhoff

Functional elegance in nursing care



## multicare

Intensive care bed





## multicare

### The new premium intensive care bed

In an intensive care ward, everything has to be perfect: Maximum performance is a must here, both on the part of staff and technology. For this reason, the specialists in the intensive care ward need medical equipment they can rely on at all times. Thanks to its reliable high-tech functions for all areas of intensive care, the state-of-the-art intensive care bed multicare eases the workload of staff and, at the same time, supports the patient over the entire recovery process.

#### Medical advantages

- Kinetic therapy up to 30° through automatic, lateral tilting
- VAP (ventilator-associated pneumonia) therapy and prevention
- Prevention of bedsores
- Diagnosis and monitoring of patient weight
- Easier breathing
- Mobilization and self-mobilization

#### Making nursing easier

- X-ray capable backrest for C-arm and standard X-ray
- LCD touch screen for central control of all features
- Orthopedic position and cardiac chair position
- Reduction of strain in nursing care by lateral tilting
- Weighing system with diagnosis tool for display of weight history



## multicare

Kinetic therapy  
up to 30° through  
automatic lateral  
tilting

# Our standards – your benefit

## Focus on the user

Providing medical and technical innovations to support patient recovery is a matter of course for us, as the patient always comes first at wissner-bosserhoff.

However, not only patients need a bed tailored to their individual needs. Adaptation is also crucial for the staff directly or indirectly providing care, day by day. Therefore, wissner-bosserhoff is also focusing on users from the sectors of nursing care, management and technical service.

## The WIBO promise



### Patient

- Better conditions for recovery
- Effective fall and bedsore prevention
- High level of safety
- Increased comfort



### Nursing care

- Bed and therapy system in one – less repositioning
- More ergonomic work
- Target-oriented information
- Maximum time-savings



### Management

- Excellent cost/benefit ratio
- Cost savings thanks to less rental systems
- Revenue increase due to therapy functions
- Investment security thanks to compliance with new standard



### Maintenance / technology

- Modular product design
- Tailor-made service concepts
- Low maintenance costs
- Optimum spare parts availability



# multicare at a glance

Unique advantages



## Kinetic therapy up to 30°

>> Automatic lateral therapy  
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## Bedsore prevention and therapy

>> Therapy system symbioso 200  
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## Weight monitoring

>> Integrated weighing system  
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## Less time and energy needed

>> Lateral tilting up to 30°  
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## Sitting upright

>> Orthopedic position  
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## Early mobilization for patients connected to respirators

>> Bedside support  
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## Process simplification

>> X-ray capable backrest  
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## Fall prevention and nursing care ergonomics

>> i-brake, i-drive and 5th castor  
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## Reduction of strain in nursing care and ergonomics

>> 2 x 2 foot controls  
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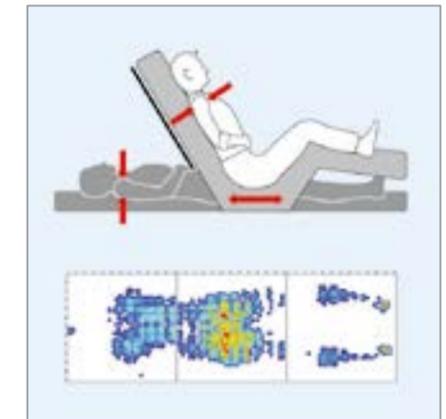
## Specific information

>> LCD touch screen and flexible control elements  
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## Highest safety standards possible

>> Safety beyond the standard IEC 60601-2-52  
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## Prevention and comfort

>> Ergoframe® patient surface  
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# Kinetic therapy

Automatic lateral therapy by up to 30°

Lack of movement in critical and intensive care patients can lead to a multitude of medical complications, for example reduced lung capacity, atelectasis, pneumonia and bedsores. The lateral (sideways) tilting is a tried and tested method of improving the patient's health. As it can be fully programmed, this method is part of a complex, evidence-based strategy for VAP prevention or avoiding pulmonary complications.

Therapy cycles can be easily and individually adjusted by nursing staff at the bed's LCD touch screen. After a monitored test cycle, automatic lateral therapy starts. For better stabilization of the patient, a special cushioning set optimized for lateral tilting, as well as a ventilation tube, are also included in the delivery.

Thanks to its kinetic therapy, multicare actively contributes to an accelerated recovery of immobile patients.

## Application guidelines

- Starting therapy as quickly as possible after admission
- Maximum time for therapy per day
- Utilization of maximum tilting angle
- Gradual onset of therapy, e. g. starting with unilateral tilting, increasing the rotation angle within 3 to 4 hours up to 60°
- Regularly performed check for contraindications of kinetic therapy
- Recommendation: Pulse oximetry and RR monitoring
- Documentation of rotating parameters

## Experience



Georg Spohn,  
ICU manager  
of SLK Clinics  
Plattenwald

*"Mr Spohn, what therapy effects have you observed?"*

"Thanks to lateral therapy, the lung function, blood circulation and ventilation conditions are changed in regularly recurring intervals, making it possible to recruit atelectasis areas. In addition, this therapy method supports the mobilization of secretions. Apart from these therapy results, no patient suffered from bedsores, although we did not use any alternating pressure systems and only relied on the passive mattress recommended by the manufacturer. Particularly, I want to mention that even our three critical intensive care patients with an unstable circulation showed good skin conditions. Thanks to the continuous pressure changes, the risk of bedsores is minimized."

Source: respect magazine No. 7, 2010



### Patient

- Better possibilities for recovery
- Immediate and permanent access to kinetic therapy
- Protection with intelligent side guards
- No need for repositioning



### Nursing care

- Less effort in nursing care, improved therapy results
- Less repositioning of patients on respirators
- High lateral rotation angle of 60° with a maximum tilting angle of 30° to the left and 30° to the right



### Management

- Revenue increase through OPS coding
- Cost savings thanks to less rental systems
- Investment security through new standard IEC 60 601-2-52



### Maintenance / technology

- Low transportation effort, as the bed can remain in the ward
- Low spare parts requirement due to integrated therapy system

# Bedsore prevention and therapy

## Integrated therapy system symbioso 200

Bedsore therapy can be lengthy. For these reasons, it is essential to actively avoid any risk factors and to provide effective treatment. The mattress system symbioso 200 integrated into multicare offers bedsore prevention and therapy, micro climate management and constant low pressure. This helps protect the skin of the patient against pressure and humidity. The compressor is an integral part of the bed and the mattress is directly controlled by the multicare control elements.

### Advantages of symbioso 200

- Double mode – micro climate management and constant low pressure
- Automatic operation
- Heel protection
- Integrated into multicare
- Easy to operate
- One button CPR for bed and mattress



#### Patient

- Relief of pressure and effective therapy
- Peaceful sleep thanks to noise reduction
- High level of comfort



#### Nursing care

- Easy operation via the bed's LCD touch screen
- Protects the patient's skin against humidity and pressure



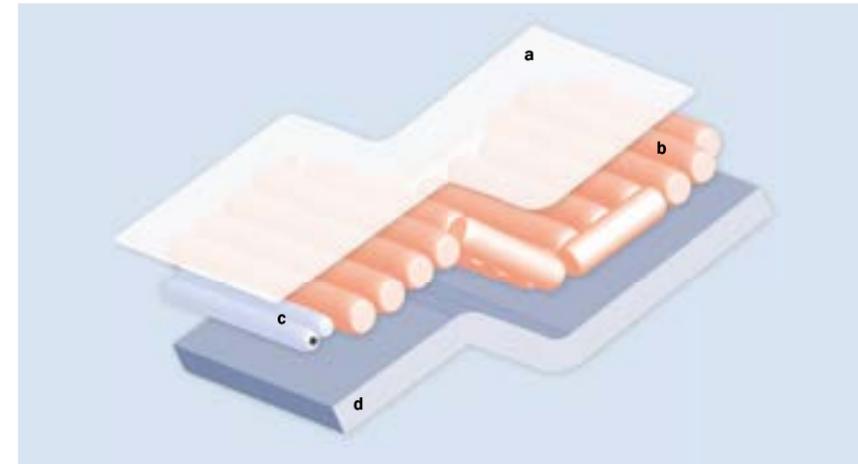
#### Management

- Reduced bedsore risk and lower follow-up costs
- Active mattress system for a maximum patient weight of 250 kg
- Reduced training costs by using the bed control



#### Maintenance / technology

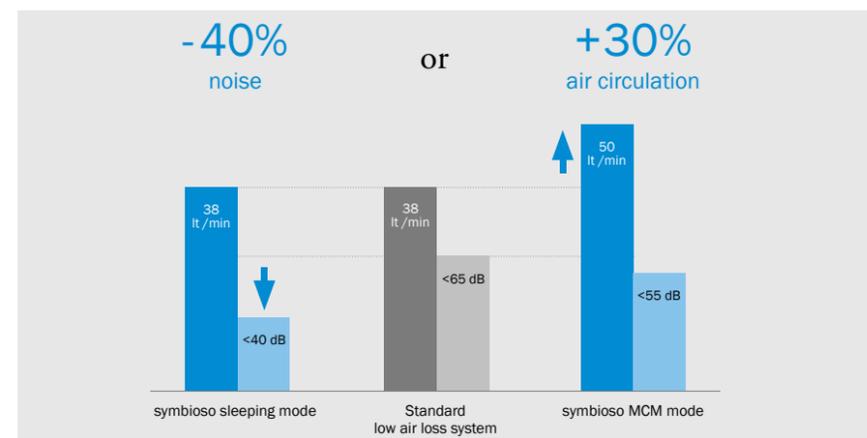
- multicare can be used without restrictions even without symbioso 200
- Intuitive installation
- Easy-to-clean thanks to modular design



#### Comfort layer

An easy-to-clean comfort layer between the air zone and the cover increases patient comfort and supports the air circulation by improving ventilation.

- a Comfort layer
- b Active mattress
- c Mattress extension (2 cells)
- d Passive foam mattress

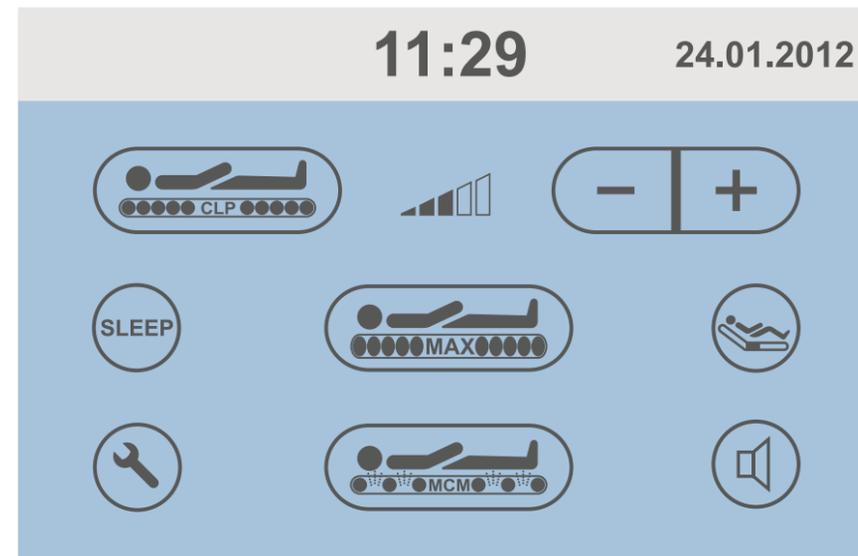


#### Microclimate management (MCM) - quiet comfort for patients

Microclimate circulation underneath the mattress cover facilitates the transfer of moisture to the air and helps protect the patient's skin from damage caused by moisture and to maintain natural thermoregulation.

#### Sleeping mode - minimum noise while sleeping

By diminishing the microclimate air flow, noise is also significantly reduced. The low pressure settings remain intact and an air flow of 38 lt/min is ensured.



#### Integrated control

symbioso 200 is controlled intuitively via the Multiboard LCD touch screen.

#### CLP mode

In constant low pressure (CLP), symbioso 200 keeps the chosen pressure level independent of weight distribution or patient position in order to guarantee constant pressure distribution.

#### Max mode

The mattress is inflated to the maximum pressure level to serve as a stable surface for patient transfers or nursing care. An automatic safety cut out prevents this mode from unintentionally being used for a long time.

#### Automatic Fowler boost

The Fowler boost function increases pressure in the pelvic area as soon as the backrest is set to an angle greater than 30°. This function can be deactivated if desired.

#### Alarm system

The system recognizes errors, triggering a visual and acoustic alarm. The acoustic signal can be deactivated.



# Weight monitoring

## Integrated weighing system

Targeted weight monitoring of patients in a critical state of health can facilitate a lot of important decisions. On short notice, weight information can be used for decisions on dosage of medication; for long-term purposes, the stored weight history of the patient can help staff draw conclusions about the patient's condition, for example his fluid balance.



### Patient

- Reduction in stress, as weighing takes place in the bed
- Overdoses are avoided



### Nursing care

- Less repositioning of the patient, more time for nursing tasks
- Continuous weight monitoring
- Minimizing the consequences of falls
- Improved medication calculation



### Management

- Process cost savings, as weighing takes place in the bed
- Optimized medication management



### Maintenance / technology

- Weighing sensors can be exchanged individually

## Advantages of the integrated weighing system

- Determination of absolute and relative body weight (01)
- Graphical representation of weight history in an analysis tool (02)
- Control possible from both LCD touch screens (03)
- Freezing the weight measurement in case of changes in the patient's weight by external causes (e. g. accessories)
- Bed egress alarm in form of an acoustic signal if patient leaves bed on his own or moves unsupervised towards the edge of the bed

# Process simplification

## X-ray capable backrest for C-arm and standard X-ray

Moving the patient out of his bed for examination with a C-arm (part of basic equipment) or standard X-ray unit causes as much stress to the patient as it does to the nursing staff. Thanks to the integrated C-arm and X-ray cassette tray of the multicare, the major effort of repositioning not necessary any more.

### Application guidelines

- C-arm compatibility thanks to modern lifting column construction and X-ray permeable backrest. Minor cardiologic surgery can be performed directly in bed
- X-ray cassette tray below the patient surface; easily accessible from the side
- Patient can remain in comfortable lying position during X-ray examination; no need of having the patient sit up
- All preparatory measures can be performed by one person
- Sensors prevent damage to the X-ray cassette holder during tilting of the bed



#### Patient

- X-ray examinations can be performed directly in the bed, causing no stress to the patient
- No need of having the patient sit up



#### Nursing care

- Periodic examination of the lung



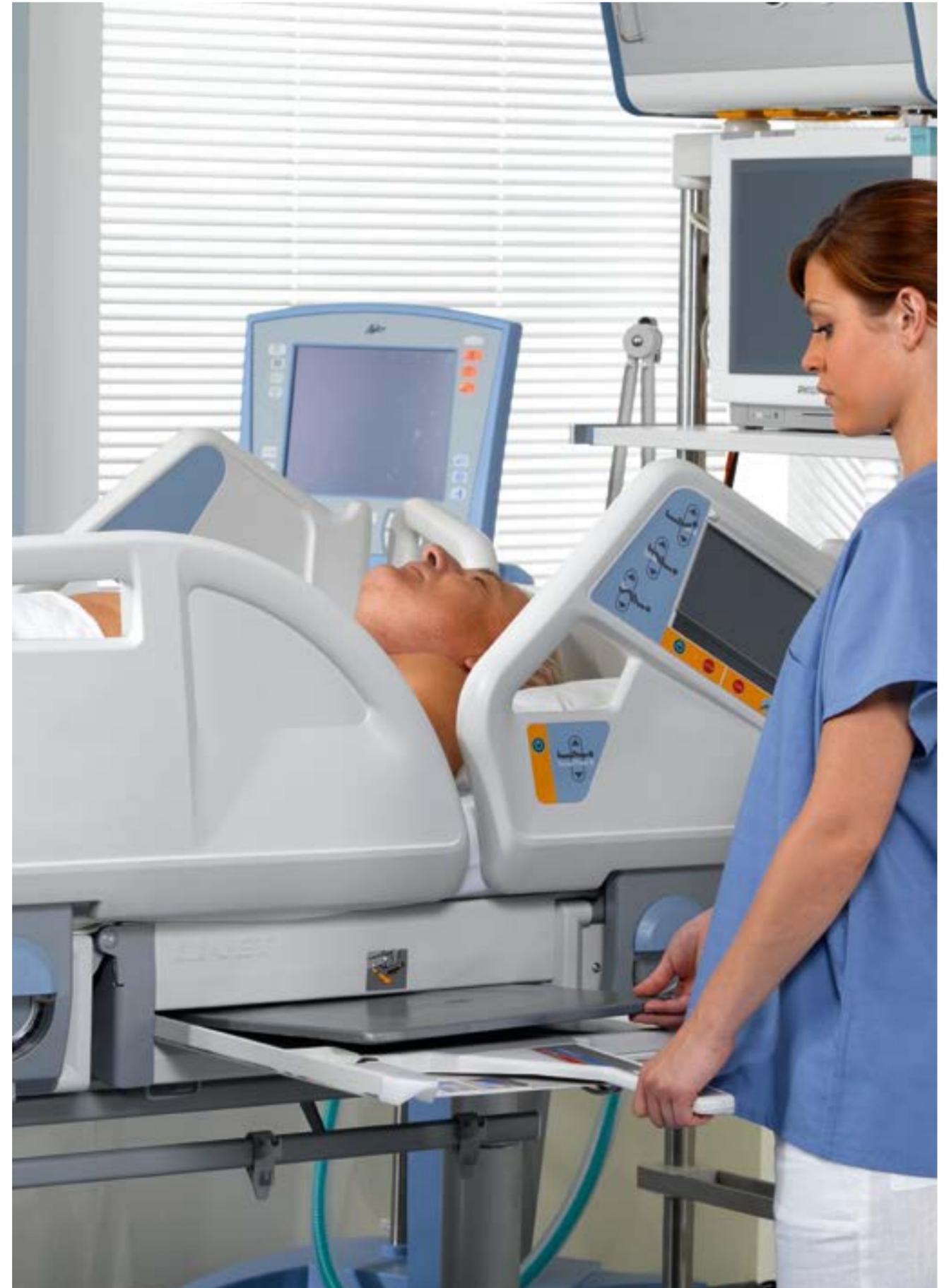
#### Management

- Cost and time savings, as only one person is needed
- Process cost savings



#### Maintenance / technology

- Damage to the X-ray cassette is prevented by an integrated sensor



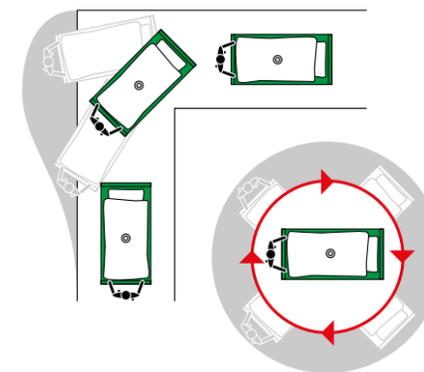


# Nursing care ergonomics and fall prevention

## Innovative functions

Functions that simplify everyday nursing tasks should be included in every hospital bed's design. It is crucial that these functions not only improve routine nursing tasks but are also user-friendly and can be intuitively operated.

With the added functionality of the 5th castor, i-drive and i-brake, multicare more than just meets this requirement, as all three functions considerably simplify everyday nursing care, are easy to operate and stand in if activation has been forgotten.



### Easy transport 5th castor

- Centrally positioned between the four main castors
- Allows for trouble-free maneuvering in narrow corridors, small rooms and on large distances.
- Easy turning of the bed on the spot
- Back-saving patient transfer, just one person needed to move the bed

### Improved handling i-drive

- Automatic retraction of 5th castor when connected to the power supply
- Lifter, C-arm and serving tray clearance with retracted 5th castor

### Effective fall prevention i-brake

- Automatic bed brake
- Brakes the bed within 1 minute after connection to the power supply

### Patient

- Fewer falls, thus quicker recovery
- Comfortable transport

### Nursing care

- Substantial increase in safety
- Focus on the patient
- Ergonomical transport

### Management

- Falls of the patient are prevented, avoiding legal disputes
- Fewer damages to walls and door frames

### Maintenance / technology

- Quicker access to the undercarriage
- Easy-to-clean thanks to retraction of 5th castor

# Facilitation of nursing care

2 x 2 foot controls for lateral tilting and height adjustment

1. **With the foot controls for height adjustment**, nursing staff can adapt the patient surface height from both sides of the bed, adjusting it to the preset examination position quickly. Thanks to the preset examination position, the bed is automatically adjusted to a high position, while backrest and leg rest move to a flat position, ensuring an ergonomic patient position. With the foot controls, this function can be used hygienically and without putting strain on the back or having to use the hands. The protection bar prevents unintended operation of the function keys.

2. **With the foot controls for lateral tilting**, it is possible to tilt the bed to the side by up to 15° to make nursing care easier. The protection bar and the GO button prevent unintended operation of the function keys. The foot controls are installed on both sides of the bed.

## Functional advantages of the foot control solution

- Nursing staff can adjust the bed position quickly, hygienically and ergonomically – without having to use their hands
- Foot controls installed on both sides of the bed allow for flexible access to the patient
- The foot control functions can be locked via LCD touch screen or the supervisor panel
- The safety bar protects from unintended operation.
- Four useful functions: lateral tilting, GO button, height adjustment, examination positions



## Ergonomics

Through the use of lateralization when changing bed sheets or dressings, nursing staff can access the patient more easily. Nursing staff can work standing upright, reducing the strain on the back and shoulders. By working with the joints in a neutral position, excessive strain of the upper limbs is avoided and nursing tasks can be performed more effectively. This kinaesthetic advantage is just as beneficial to the patient, who can be moved with minimal physical effort. This reduces the risk of pain, additional injuries and friction and shearing forces that could damage the skin.



### Patient

- Reduced risk of infections
- Repositioning the patient with less stress
- Focus on the patient



### Nursing care

- Full attention on the nursing task with both hands free
- Ergonomic and intuitive workflows
- Easy and safe adjustment of the bed
- Time-savings



### Management

- Cross-infections and their follow-up costs are avoided



### Maintenance / technology

- Modular design and easy exchange of foot controls
- Easy to clean



# Facilitation of nursing care

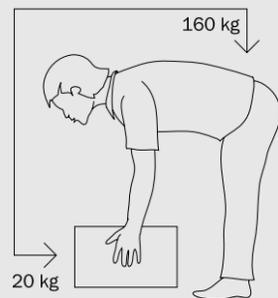
## Lateral tilting

Looking after a patient who is partially or completely immobile is without doubt one of the most strenuous parts of the work for nursing staff. These activities are a key part of everyday nursing routines. In many cases, nursing care also requires the patient to be positioned on his side, e.g. when changing bed sheets, for mobilization or skin and hygiene care. Thanks to its lateral tilting functionality, multicare makes it possible to turn the patient or move him to the side using a minimum amount of energy. This way, multicare reduces the strain on nursing staff and supports medical processes, such as simplifying post-operative drainage or making it easier to reposition the patient to avoid bedsores.

# 94%

## of nursing staff

in internal medicine and long-term care stated in a questionnaire that they suffer from back pain, with 60% of those questioned saying that they had to lift patients during mobilization. Through this physically strenuous task, a considerable burden is placed on the back. For example, if you lift 20 kg in a bent posture, this corresponds to a strain on the intervertebral disk that is 8 times larger, with a corresponding risk of damage to the back.



### Applications for lateralization

#### Nursing care

1. Changing sheets and dressings
2. Basic care
3. Mobilization
4. Transfer (to the bed, stretcher, transport chair)

#### Prevention and care

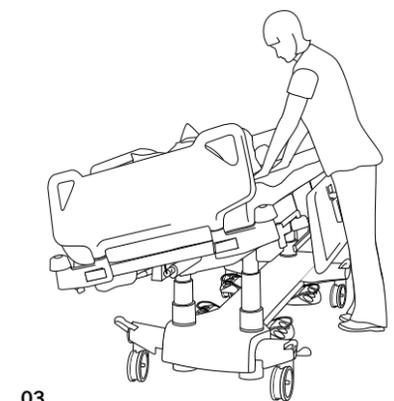
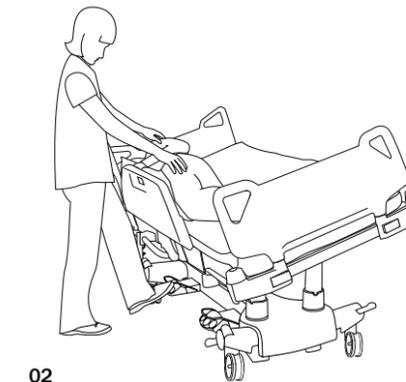
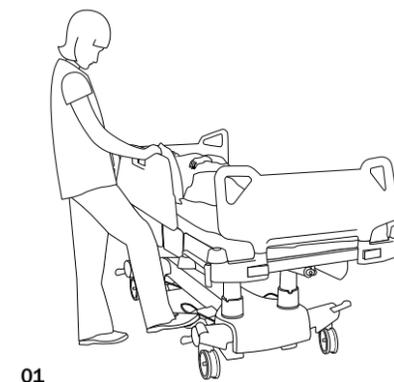
5. Wound care
6. Bedsores prevention
7. Breathing more easily
8. Burn injuries
9. Care of infants
10. Receiving visitors

**01** Using the foot controls, nursing staff can set the bed to a convenient working height. On the nursing side, the raised side guard is padded with a cushion to protect the patient.

**02** The bed is laterally tilted using the foot controls, turning the patient on his side. The nurse needs to provide only minimal support. In this way, even heavier patients are cared for effortlessly.

**03** The patient now lies in a stable position. The nurse changes to the other side of the bed and begins to change bed sheets or dressings.

**04** With the foot controls, the nurse can bring the bed back to a horizontal position, turn the patient onto his back without any physical effort and finish changing the sheets.



#### Patient

- Effective bedsores prevention
- Gentle repositioning of the patient for all nursing tasks
- Stimulation through repositioning
- Mobilization support



#### Nursing care

- Effortless repositioning of the patient (turning, transfer etc.)
- Fewer cases of musculo-skeletal disorders due to reduction in physically strenuous tasks
- Easier shift work
- High motivation thanks to good work comfort
- Easy access to the opposite side of the bed
- More time for the patient thanks to time-savings of up to 15 % in basic nursing tasks



#### Management

- Quick return on investment
- Reduced sick leave of nursing staff due to musculo-skeletal disorders
- Motivated employees
- Easier organization of night and shift work



#### Maintenance / technology

- Implementation of tilting functionality with maintenance-free lifting columns



# Sitting upright

## Orthopneic position

The orthopneic position, supported by the Ergoframe® patient surface, is particularly useful for patients with left ventricular decompensation, asthma or COPD. This special high positioning of the upper body, enabling a cardiac chair position as well as support of the feet, has the following advantages:

### Breathing more easily

- Sitting upright (a)
- Support of the feet (b)
- Support of the arms (c)
- Relief of pressure in the sacral area (d)
- Feeling of safety for the patient
- Additional use of respiratory muscles
- Easier deep abdominal breathing



The integrated electric bed extension, contributing to supporting the patient's feet and helping him in case of breathlessness, is also utilized for the prevention of pes equinus, as the pressure of the foot section on the patient's feet can be seamlessly adjusted. This way, nursing staff can easily use these preventive measures whenever needed.



### Patient

- Breathing easier
- Change of perspective creates a better overview
- Sitting upright as a sign of improved health
- High level of safety thanks to automatically adapting side guards



### Nursing care

- Element of orthopneic therapy
- Bedsore prevention with Ergoframe
- Moving the patient to a care chair is no longer necessary



### Management

- Lower process costs



### Maintenance / technology

- No need for the use of additional components

# Early mobilization for intensive care patients connected to respirators

## Maximum support with multicare

Early mobilization includes all forms of mobilization and processes that aim to rehabilitate intensive care patients connected to a respirator. In particular, this is achieved by strengthening exercises, by increasing mobility, with breathing therapy, neurological initiation and basal stimulation. Health complications caused by immobility such as pneumonia, critical illness polyneuropathy (CIP), delirium, etc. can be reduced or even avoided.



## Passive mobilization\*

High positioning of the upper body / automatic lateral therapy

- Set the backrest to a 30° angle with preset automatic functions or individual adjustment for each patient, lateral tilting, GO button, height adjustment, examination positions
- Integrated, preset automatic positioning for kinesiotherapy or manual handling



### Patient

- Risks of immobility such as pneumonia, critical illness polyneuropathy (CIP), delirium are reduced
- Fewer secondary complications
- Lower drug doses
- Shorter stay in bed



### Nursing care

- Preset positions encourage patients to move more on their own
- Active support when the patient changes position (lying down, sitting, standing up)
- Lateral tilting reduces strain on the back



### Management

- Shorter stays, less medication and fewer complications save costs
- OPS coding increases revenue
- Higher employee satisfaction and loyalty by using innovative care strategies



### Maintenance / technology

- Fewer accessories need to be kept in stock



## Active mobilization\*

Upright sitting position in bed, with the legs stretched/cardiac chair position

- Preset position for upright sitting with the legs stretched and automatic cardiac chair function
- Angles can be set for each individual patient



Sitting on the edge of the bed

- Protection that takes leads and drains into account
- 1-2 members of the intensive care team
- Bed at sitting height and possibly close to the ground (feet on the ground)
- Grip opening in the side guards



Standing / walking in place

- Leads and drains are secured and considered
- Support by 1-2 persons
- If possible, put on patient's shoes
- Integrated Mobi-Lift mobilization handle
- Patient monitoring



Walking

- Leads and drains are secured and considered
- Support by 1-2 persons
- Possible mobile respirator with spontaneous breathing mode
- Adequate walking aid

# Target-oriented information

## Multiboard with LCD touch screen

Displaying all relevant data completely and clearly is often very complicated. Via its integrated LCD touch screens, multicare provides you with specific and compact information. At the same time, the most frequently used control elements are easily accessible on the integrated operating panel.

### Intuitive control elements

- LCD touch screens on both sides of the bed
- The MultiBoard consists of an integrated LCD touch screen as well as an operating panel integrated into the side guards for the bed adjustments used most frequently
- The clearly structured LCD touch screen can be operated intuitively, without complicated menus and descriptions
- On demand, the intelligent help function gives you an explanation of the menu items selected
- If the backrest is set to the 30° position, which is a common method for the prevention of respiratory problems, the MultiBoard provides nursing staff with a maximum overview
- Full access to the central control element is also ensured if the central side guard is lowered, for example for basic care



#### Patient

- Thanks to the optimal positioning of the MultiBoard and its intuitive menu structure, nurses have more time for the patient
- Prevention of wrong operation of functions and the respective consequences



#### Nursing care

- Optimal overview of bed adjustments
- Intuitive menu structure without complicated sub menus
- Cross-infections are avoided
- Safe operation



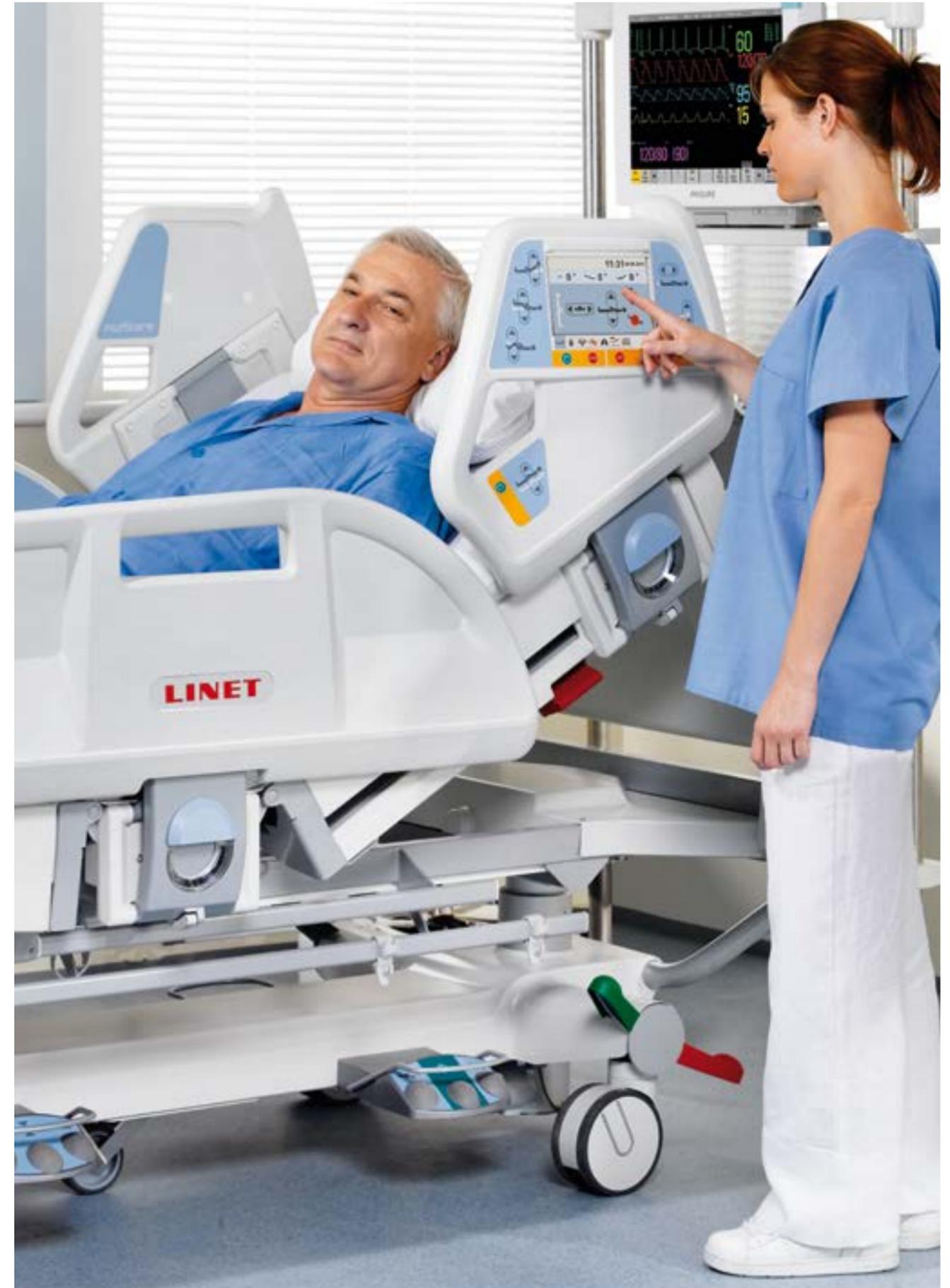
#### Management

- State-of-the-art technology
- Conveys competence and innovation
- Process cost saving through simple menu structure and error analysis



#### Maintenance / technology

- Error diagnosis directly via LCD touch screen
- No additional maintenance required
- Particularly quick and easy access in case of replacement





# Positioning and mobilization

## Control elements

Additional control elements make handling easier for both the patient and nursing staff – for access from the bed, from the sides and at the foot end. Safety and compliance with the new standard IEC 60601-2-52 as well as the medical benefits are the first priority here:

### 01 Integrated control elements

- The control elements integrated into the side guards put an end to annoying tangles of cables and searching for the handset
- Always at the same height, they are available and easily to reach at all times. The fact that these control elements are only used by the patient himself represents a significant contribution to avoiding cross-infections

### 02 Independent mobilization with the Mobi Lift®

- The Mobi Lift® is equipped with an integrated function key for height adjustment of the bed
- This way, the patient can support himself when getting up
- Physiotherapists use Mobi Lift® to test the physical limits of patients in order to enable mobilization as soon as possible
- Effort on the part of staff is reduced to a minimum

### 03 Practical example: Integrated control elements and Mobi Lift®

- 03 a Using the integrated control elements, the patient raises the backrest himself. Alternatively, nursing staff can adjust the bed to the lowest position using the preset bed egress position (via LCD touch screen). The backrest is raised simultaneously.
- 03 b The integrated control elements are easy to reach for the patient both with the backrest raised or lowered. If it is raised, the patient can also adjust the calf rest.
- 03 c Sitting on the edge of the bed, the patient finds support both in the side guard and in the Mobi Lift®. With the integrated height function key of the Mobi Lift®, the patient can adjust the bed height to adapt it to his standing-up movement.

### 04 Flexible supervisor

- The supervisor can be attached anywhere at the bed, at the side guards and bed ends, making it easily available to nursing staff
- Emergency and therapy positions, like the Trendelenburg or CPR position, are preset for quick adjustment
- Bed adjustment functions that the patient is not allowed to use on his own due to his state of health can be locked (and unlocked) by nursing staff at the press of a button

### 05 Patient control element handset

- The handset is easy to operate and can be positioned flexibly, making it accessible at all times
- The integrated LED and the optionally illuminated control panel help the patient to find his way in the dark
- Supervisor and handset can be easily taken off the bed thanks to their plug&play functionality, making it possible to use a single handset with different multicare beds

### GO safety button since 2003



- Optimum implementation of the principle of initial fault tolerance
- Prevention of uncontrolled triggering of functions by a button being pressed by accident or by defective electrical functions (also in battery operation)
- Control elements not active without triggering
- Control elements remain active for 3 minutes after the last adjustment has been made
- Since 2003, the GO safety button is part of the standard safety equipment of wissner-bosserhoff hospital beds

# Highest safety standards

## Safety beyond the standard IEC 60601-2-52

At wissner-bosserhoff, safety comes first. We follow this principle for the good of your patients, for an optimum application safety for your employees as well as for reducing liability risks as much as possible. multicare is the only premium intensive care bed that is already certified in accordance with the new standard IEC 60601-2-52, also offering you many additional safety functions.

### Side guards

- The concept of constant minimum distances between movable parts of the side guards ensures compliance with the standard IEC 60601-2-52 in lowered as well as in working position
- Customized adjustment of protection to the individual risk of falls of the patient
- Good access to the patient for daily nursing care, while retaining as much safety as possible
- Sensors determine the position of the side guards. Lateral tilting of the bed with the side guards lowered is not possible
- Soft closing for lowering the side guards and tilting angle information for increased operating comfort
- The double protection mechanism prevents accidental adjustment of the side guards despite easy one-hand operation
- Thanks to the special side guards, both active and passive mattress systems up to 23 cm in height can be used

### Hygiene

- The continuous design of the bed supports easy and quick cleaning
- The elements associated with the highest risk, such as bed heads and side guards, which are touched continually by both staff and patients, are made of seamless plastic elements
- Continuous smooth surfaces do not allow dirt to collect and can be cleaned and disinfected efficiently
- The lifting columns can be cleaned easily and are covered amply, without joint or bolt connections which would make it possible for fluids to seep in.
- There is a permanent thin coat of lubricant on the surface of the lifting columns, a surface composition which provides a very low level of adhesion for contaminating liquids.
- Large and safe covers, e.g. of the undercarriage, for quick visual inspection and time-saving cleaning, even in case of heavy contamination

### Night light

- Provides orientation help for patient and staff
- At night, the soft carpet of light does not irritate the patient, while considerably contributing to prevent falls
- Makes it easy to check the power connection



#### Patient

- Fewer falls
- Lower risk of infections
- Mobilization adapted to the patient's condition



#### Nursing care

- Implementation of the highest hygiene standards
- Independent patient mobilization
- No dangerous central gap



#### Management

- Certification according to the new standard IEC 60601-2-52 creates investment security
- Reduced number of falls



#### Maintenance / technology

- Smooth-operating, low-maintenance side guards
- Quick cleaning due to smooth and clearly structured surfaces

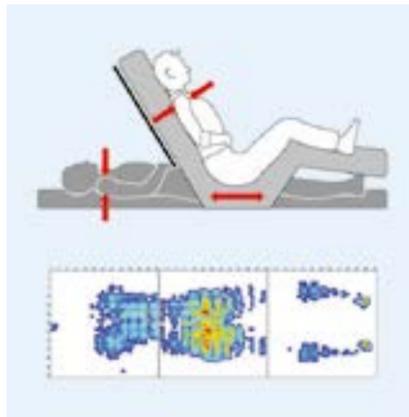
# Prevention and comfort

## Ergoframe®

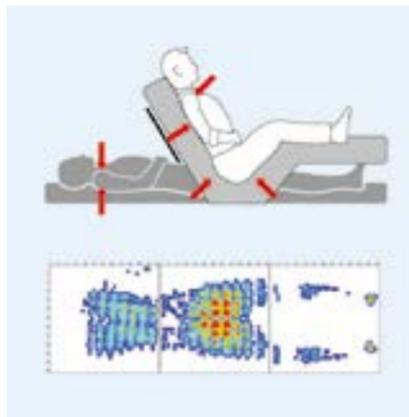
Lying and sitting in the same position for a long time, as well as high-pressure loads that are accompanied by strong shearing forces, lead to bedsores. Preventive positioning is the basic and most effective means to avoid that. However, when positioning the patient in standard beds, friction and shearing forces occur.

### Relief of pressure

- With the Ergoframe® positioning system, the negative effects of positioning the patient are avoided
- The rotation point of the backrest and thigh rest is raised above the actual patient surface
- More space in the pelvic area when adjusting the bed
- Reduction of friction and shearing forces due to enlarged seating area and stable mattress position
- Relief of strain on the pelvic, back and shoulder blade area
- Continuous support of the head during positioning



Ergoframe®



Standard patient surface



#### Patient

- Reduces the pressure in the pelvic area as well as friction and shearing forces
- Ergonomic division of the patient surface for increased comfort
- Excellent support of the head when adjusting the backrest



#### Nursing care

- More effective bedsores prevention
- The resident does not "slip down" in the bed as much
- Less repositioning, more time for nursing tasks



#### Management

- Reduced bedsores risk and lower follow-up costs



#### Maintenance / technology

- Easy-to-clean patient surface with removable mattress limiters



# 4 packages to choose from

The multicare portfolio

## Basic configuration

With multicare, you get the highest level of functionality as a standard. In addition to the basic configuration, individual packages can be combined.

- Complies with the new standard IEC 60601-2-52
- X-ray capable backrest for C-arm use
- Lateral tilting up to 30°
- Orthopneic position
- LCD touch screen
- Easy to clean thanks to lifting columns and smooth surfaces
- Better orientation through night light
- Mobilization with integrated control elements
- Tente double castors
- Accessory rails on both sides
- Restraining belt attachments



The basic package can be delivered as described here, or optionally combined with the Flexibility, Diagnosis and Therapy packages. All combinations are possible.

You are looking for the best bed movability, innovative transport functionality, excellent fall prevention and ergonomic nursing care workflows?

## Basic configuration



- Easier transport thanks to 5th castor
- Automatic bed brake (i-brake)
- Foot controls for lateral tilting and height adjustment

## Flexibility package



You are looking for an easy way to display information for in-depth diagnosis without having to move the patient to another bed?

## Basic configuration



- Integrated weighing system
- Cassette holder under the backrest, for using standard X-ray equipment

## Diagnosis package



You are looking for an in-bed therapy system for VAP and bedsore treatment to create the best recovery conditions possible for your patient?

## Basic configuration



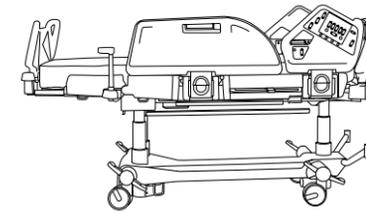
- Kinetic therapy up to 30° thanks to automatic lateral tilting
- Bedsore therapy system virtuoso

## Therapy package



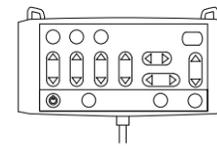
# Options and accessories

## Dimensions

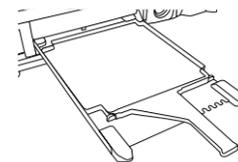


multicare, Mod. No. 20-0420  
 Length: 215 cm - 237 cm, width: 105 cm  
 Height adjustment of mattress platform: 44-82 cm  
 Safe working load: 250 kg  
 Maximum mattress height: 23 cm  
 Lateral tilting angle: 30° left / right

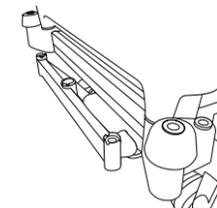
## Options



Supervisor panel as nursing staff control element



X-ray cassette holder with cassette tray and circuit breaker (X-ray)

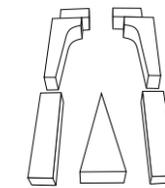


Lifting pole adapter

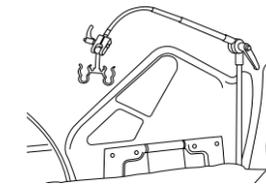
### Additional options not pictured:

- Kinetic therapy application
- Integrated weighing system
- 5th castor
- i-drive
- i-brake
- Foot controls for lateral tilting
- Foot controls for height adjustment
- Handset as patient control element, with illumination and LED
- Mobilift® (on both sides)

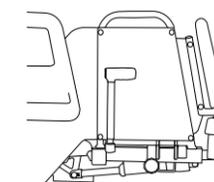
## Accessories



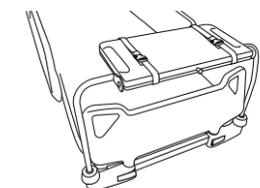
Cushioning set for lateral tilting



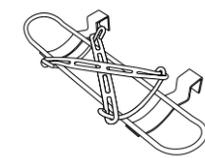
Respiration tube holder



Protector for easy use between side guard and foot section. The bed can be adjusted to all positions.



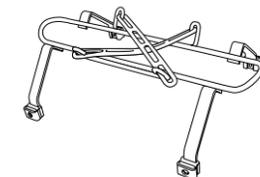
Monitor tray



Oxygen bottle holder, type A, for horizontal positioning at the head end of the bed



Oxygen bottle holder, type B, for vertical positioning at the head end of the bed



Oxygen bottle holder, type C, for horizontal positioning at the head end, above the undercarriage

# Easier transport

## Motorized patient transport with i-drive power

When moving patients over long distances or in uphill corridors, nurses have to move heavy loads and are at risk of incurring back injuries or other impairments of the locomotor system. These risks can be minimized with the optional motorized fifth castor i-drive power.

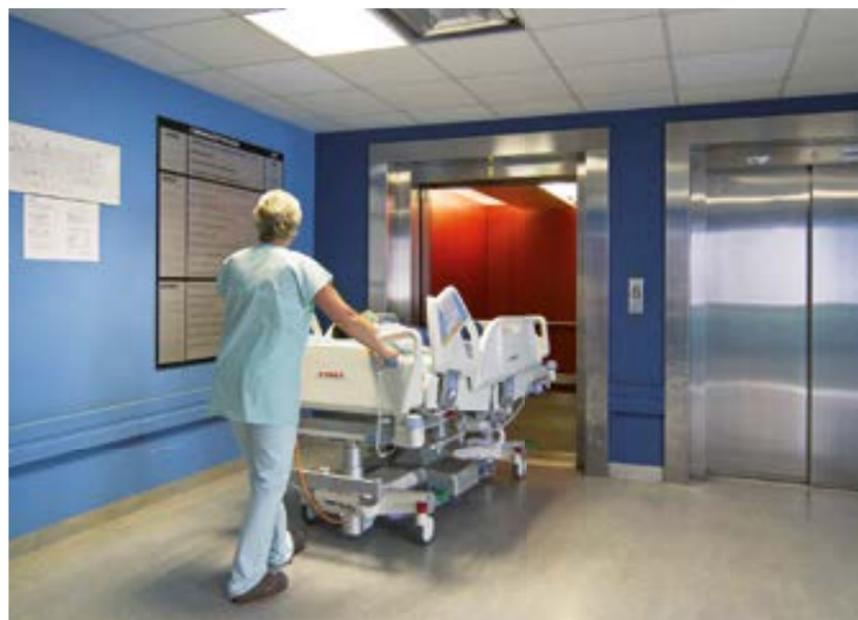


### Minimum effort

- When moving a heavy load uphill
- When moving a heavy load downhill
- When turning the bed with a heavy load

### Intelligent acceleration

2 drive modes can be selected for different transport situations. In the fast mode, patients can be transported over long distances quickly. The normal mode is slower, but has a higher degree of control, e.g. in narrow spaces, driving out of the elevator etc.



### Outstanding lifespan

With the long-lasting batteries of the i-drive power, the bed can be moved up to 5 km within the hospital without having to pause again to charge the batteries (fully charged battery, 80 kg load, flat surface, moving in a straight line).

### Safety Sense surface

The unique Safety Sense surface prevents unintentional activation and reduces the risk of misuse. In order to activate the i-drive power, one hand must be placed on the Safety Sense surface as a steering hand. If the hand is removed from the Safety Sense surface while the bed is still moving, the automatic emergency stop is activated. Aside from that, multicare comes to a stop when the stop button is pressed.

### Always mobile

If necessary, the i-drive power can be deactivated and it is ensured that the bed is mobile at all times, even in the improbable event of a defect or empty battery. Furthermore, the i-drive power can be used as a conventional fifth castor with all of its associated advantages. Plan when to transport the bed with i-drive power with the LED battery charge indicator.

## Technical data

Power supply	36 V
Max. driving performance	5 km
Normal / max. input power	200 W/1,000W
Normal / max. output power	150 W/480 W
Castor size	150 mm
Fast mode (flat surface)	4.8 km/h
Normal mode	2.6 km/h
Driving uphill / max. angle	6°

1 (fully charged battery, 80 kg load, flat surface, moving in a straight line)  
2 patients weighing up to 80 kg and max. slope length of 20 m without additional thrust



### Patient

- Safe and fast transportation in bed



### Nursing care

- Easy transport in bed, even if the load is heavy and the bed has to be driven up a slope
- Intuitive and safe handling
- Fewer musculoskeletal diseases



### Management

- Fewer sick leaves of nursing staff caused by musculoskeletal diseases
- Efficient bed transport



### Maintenance / technology

- The bed is always mobile, even if the i-drive power is defective or the battery is empty



Functional elegance in nursing care

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