

# CARENA™

Hospital bed

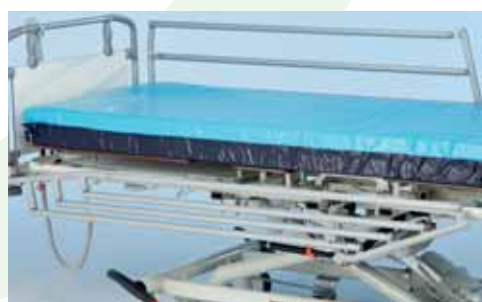


Merivaara has created revolutionary hospital bed Carena, which has all the most asked-for features combined in the new bed the needs of nursing staff as well as an increase in the average weight of the population and the relative number of elderly persons have been taken into consideration in its design. This is why Merivaara has created a bed whose minimum height makes it easy for smaller patients to get in and out of on their own, and whose maximum safe working load of 330 kg allows for even the heaviest patients. This next-generation hospital bed is equally suited to emergency room and long-term care, intensive care or nursing homes.

Carena offers the best possible ergonomics for the patient. Several functions have been designed to ensure a fast and a pleasant recovery process. Carena – even the name conveys a sense of healing, care and caring.



- High safe working load: 330 kg
- Unique lower and upper height: 295 mm – 890 mm
- Unparalleled patient ergonomics:
  - 4-sectional mattress base
  - Electric Trendelenburg as an option
  - Independent patient movements
- State-of-the-art ergonomics for the nurse
  - Ergonomics for the working positions
  - Easy to clean
  - Multifunctional accessories
  - Lightness in the braking system
- Comfort in use
- Lightness in weight (100kg) and transporting
- Innovative structure and new design
- Exceptional range of colours
- Long service life-cycle and ease of the maintenance
- New gas spring assisted 3/4 side rails - extremely light to handle - descends smoothly. No risks for squeezing injuries. High enough to use with thick intensive care mattresses. Merivaara has a patent pending for this .





## 4-sectional mattress base

Re-measured thigh section ensures a comfortable position for the patient when adjusting the mattress base and effectively prevents the patient from sliding when moving the back section.

Correct, variable treatment positions are of the utmost importance for patient well-being and those are easy to carry out with 4-sectional mattress base.



## Self-acting

The solid construction of the bed and correct placement of handler on the sides and ends makes it easy for the patient to get in and out on their own.



## Unique lower height 295 mm

The unique and revolutionary lower height of 295 mm promotes independent accessibility for even the smallest patients. It is easy and safe to get out of the bed – an excellent feature for such applications as geriatric care.



Carena 295 mm

Normal bed lowest position

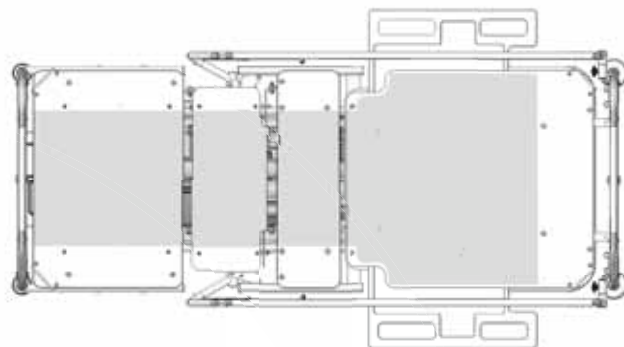
## Excellent safe working load 330 kg

Average weights are constantly increasing, thus placing major demands on product durability. Carena also breaks new ground here - max. safe working load is remarkable 330 kg, max. patient weight is 300 kg.

## Electric Trendelenburg

Electric Trendelenburg is often used in positioning the patient for suitable treatment position. The new structure of Carena bed enables Trendelenburg to be used even in the lowest position of the bed. Electric Trendelenburg gives even more freedom and versatility in angles of inclination while carrying out variable treatment positions. The manual Trendelenburg is also available.





- Thorax imaging made easy:
  - no need to lift patient
  - exact positioning of the grid
  - imaging even in semi-sitting position
- New 3/4 sectional sturdy side rails are safe to use and high enough for thick intensive care mattresses
- Adjustable 4-sectional matters base -The cardiac chair -, the Fowler and the Psoas positions etc. are easy to adjust
- Exceptional low minimum height 358 mm
- Passive Air Mattress with pressure care performance and multi-membrane technology
- SWL 330 kg



### X-ray mattressbase with airpump to X-plane

- Carena's X-ray mattress base with airpump to X-plane enables thoracic imaging well, as the imaging can be done in semi-sitting position
- No extra hands for lifting the patient and placing the X-ray cassette is needed, one nurse is enough - that offers huge improvement for both caregivers and patients.

### Mattressbase

- X-ray mattress base 80 cm A42391500
- X-ray mattress base 90 cm A41978200

### New 3/4 side rail A42362500

- gas spring assisted - light to handle, descends smoothly - no risk for squeezing injuries. Patent pending.
- high enough for even thick intensive care mattresses
- fulfils requirements of new IEC 60601-2-52



### X-Ray imaging

- Air pump to X-ray plane A42410900
- Findray image plate, analog 707996
- Findray image plate, digital 707995

### Passive Air Mattress

- suitable for patients in low, medium, high and very high risk categories
- pressure reducing surface, specialized medical foam core to enhance comfort for patients
- auto-inflating, no pump, motor or power supply needed
- compact & low weight

Carena was made according to the needs of the hospital personnel – numerous new features and accessories enhance ergonomics for the nursing staff and ease heavy nursing work. The design of the new mattress base, removable base plates, the new brake pedal design and many more outstanding features will make our bed a nursing staff favourite.



## Ergonomics

The Carena is light in terms of its construction and manoeuvrability. The bed itself weighs approx. 100 kg; ease and high manoeuvrability were also emphasised in selecting the castor materials. Together, these features make the Carena wonderfully easy to move, even when transporting the largest patients.

## Ease of routines

The design of the new mattress base and removable base plates make routines like cleaning and making the bed easy, which is important considering work efficiency. The foldable bed end, that also serves as a fold-down bedding surface and mattress holder facilitate making and cleaning the bed (available as an option).

## Innovative structure

The vertical raising motion does not require additional space and the bed can move in even the tightest spaces. Carena is available in several different widths. Thanks to the new construction, the Trendelenburg adjustment can even be made when the bed is in its lower position. The unique lifting mechanism for Carena beds have been patented.



### Ease of the cleaning

The design of the new mattress base and removable base plates make cleaning easy. Clean and contoured lines, no sharp angles either small gaps, and the washable base plates/optional metal net, make the cleaning very easy.



### Accessory rail

Instead of the standard side rails an accessory rail can be attached to the side of the bed enabling the use of the arm rests. (Optional accessory)



### Light manoeuvrability

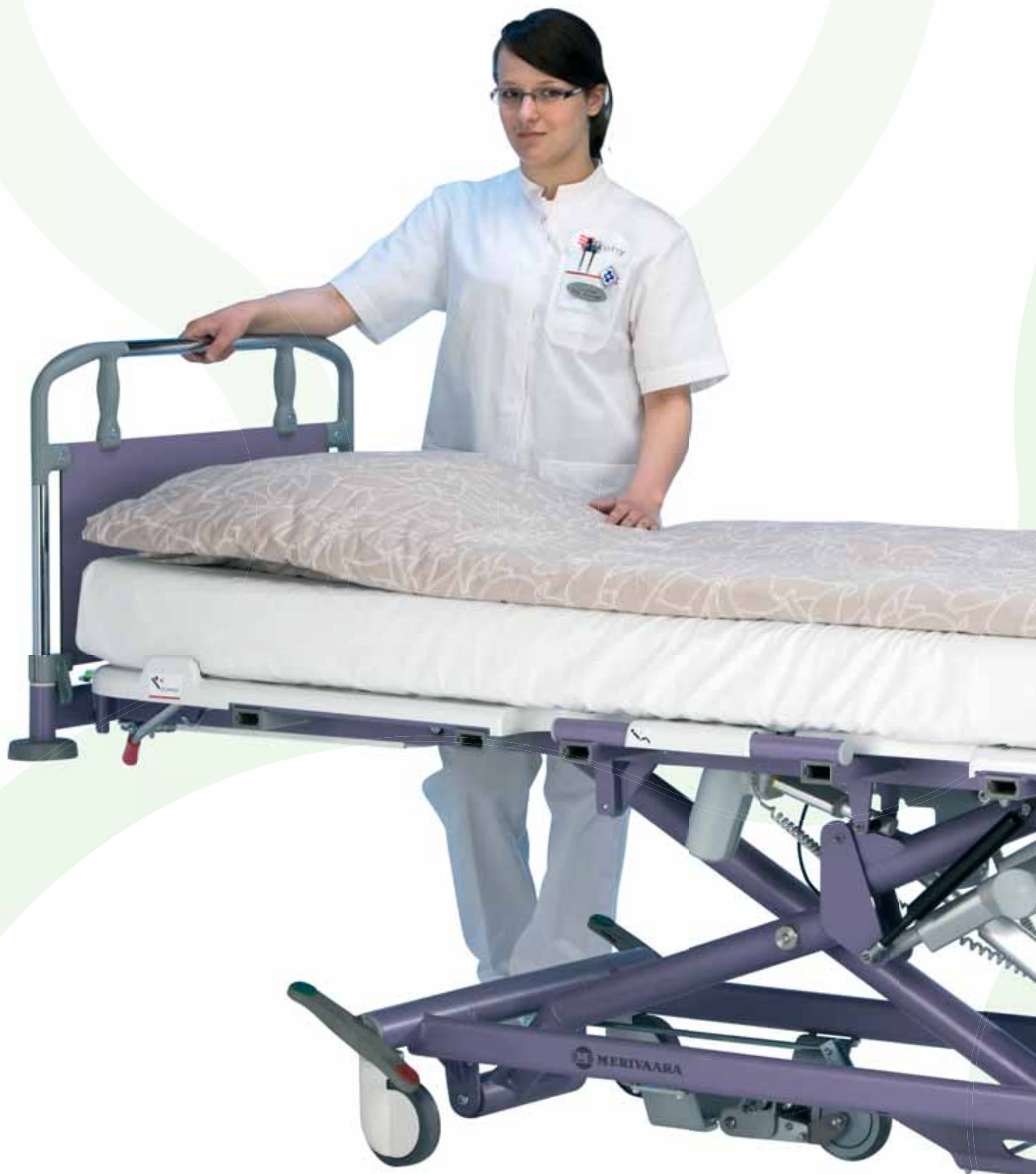
Average patient weights are constantly increasing, thus placing major demands on product durability. Carena also breaks new ground here - the maximum allowable patient load is an impressive 295 kg (SWL 330 kg) still keeping the manoeuvrability of the bed.



### Lightness in the braking system

The new brake pedal design makes it easier for the user to press and release the brake. Also the location is more ergonomic and distance to reach the pedal is considerably reduced.









## Versatile range of accessories

With a wide range of accessories Carena can be placed as well in an emergency room, long-term care or intensive care. Most common Merivaara bed accessories are compatible with Carena. Older bed models are easily upgraded with new, colourful and compatible accessories.



## Long service life-cycle

The Carena has a long service life-cycle. Carena beds are durable and easy to maintain, designed for long-term, high-wear use. The bed has an IP-class of IP66 and is suitable even for washing street use.



## Exceptional range of colours

Merivaara offers a wide variety of colours for the beds. There are now 10 standard colours to choose from and also an anti-bacterial option available. Build a treatment environment that is enjoyable and comfortable for both patients and the staff.



## Ease of maintenance

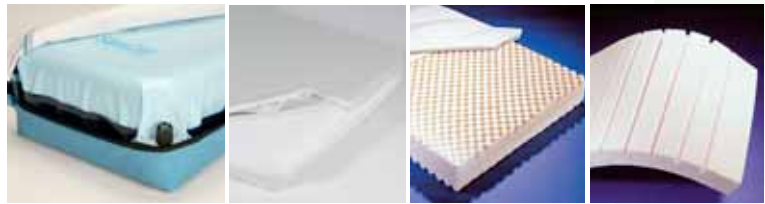
Thanks to the bed's new construction, maintenance is a snap: removable base plates make for easy access to the necessary components. The bed adjustments and structure are simple to maintain and the need for maintenance is minimal.

## Quality

The Carena hospital bed fulfils all the newest medical devices directives and standards: EN 60601-1, EN 60601-1-2, EN 60601-2-52. Carena is designed, manufactured and delivered in accordance with Quality Management System Standard ISO 9001: 2008 + ISO 13485: 2003. The Environmental Management System of Merivaara is certified according to ISO 14001: 2004 standard.

## Mattress

- Medi-Form visco-elastic 80 cm, hyg. cover 100000948
- Medi-Form visco-elastic 90 cm, hyg. cover 100000949
- Medi-Flex-Safe, hygienic cover, 80 cm 100000941
- Medi-Flex-Safe, hygienic cover, 90 cm 100000943
- Basic mattress, 80cm 100000932
- Basic mattress, 90cm 100000934
- Passive Air Mattress 200 x 75 x 13cm 100000962
- Passive Air Mattress 200 x 85 x 13cm 100000963



100000962, 100000963

## Side rails

- 3/4 side rail with gas spring, A42362500 epoxy coated or chromed
- 1-sectional, foldable A41974400 epoxy coated or chromed



A42362500

A41974400

## Bed ends

- Bed end, 80 cm 100009890
- Bed end, 90 cm 100009990
- Foldable bed end, 80 cm A41935200
- Foldable bed end, 90 cm A41982900
- Ergonomic bed end (height 48 cm) 80 cm A41948700
- Ergonomic bed end (height 48 cm) 90 cm A42180400
- Ergonomic bed end (height 40 cm) 80 cm A42180500
- Ergonomic bed end (height 40 cm) 90 cm A42180100



100009890, 100009990

A41935200, A41982900

A41948700, A42127900

## Colours

### Bed Ends:

- Light Blue (RAL 5024)
- Blue (RAL 5023)
- Purple (RAL 4012)
- White (RAL 9002)
- Pale Green (RAL 6021)
- Red (RAL 3020)
- Yellow (RAL 1003)
- Beige (RAL 1015)
- Beech

### Mattressbase/Frame:

- Light Blue (RAL 5024)
- Blue (RAL 5023)
- Purple (RAL 4012)
- White (RAL 9002)
- Pale Green (RAL 6021)
- Red (RAL 3020)
- Yellow (RAL 1003)
- Beige (RAL 1015)
- Silver (RAL 9006)
- Antibacterial silver (RAL 9006)
- Chromed



A41978500, A41978600



A41978000, A41978400

## Mattress base

- 4-sectional, 80 cm A41973200
- 4-sectional, 90 cm A41977000
- X-ray mattress base 80 cm A42391500
- X-ray mattress base 90 cm A41978200

## Mattress base cover plates

- 80 cm ABS A41978000
- 90 cm ABS A41978400
- 80 cm metal net A41978500
- 90 cm metal net A41978600



A41995500, A41996300



A41868700, A41975800

## Back section with neck support

- 80 cm metal net with neck support A41995500
- 90 cm metal net with neck support A41996300

## Leg section

- 30 cm extension for 80 cm leg section A41868700
- 30 cm extension for 90 cm leg section A41975800

## X-Ray imaging

- Air pump to X-ray plane A42410900
- Findray image plate, analog 707996
- Findray image plate, digital 707995



707996



707995



A42410900

### Castors

- 125 mm PJP and Design
- 150 mm PJP and Design
- 200 mm Design
- The fifth wheel as an option A41856300

### Baskets

- Journal basket 128009784
- Utility basket A41955500

### Plane

- Monitor/journal plane 128009768

### Electrical Component

- Attendant control panel TLB A41987800
- Battery A41956300

### Infusion rods

- 2-hooks 100005780
- 4-hooks 100000499
- Infusion bag holder for lifting pole 100000713

### Holders

- Drainage bag holder A42097900
- Hook A41955300
- Urine bottle holder 128009790

### Other accessories

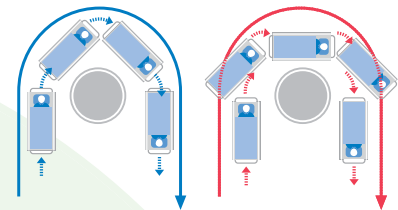
- Lifting pole with handle A41884100
- Adapter for lifting pole A42108500
- Grab handle A4184500
- Arm rest 100000127
- Foldable push bars 100009756
- Accessory rail, 1 pc 100000701
- Mattress support A41986900
- Holder for hand control A42038900
- Support grab handle and holder for hand control A42066600
- Accessory fixing points for back section A41980200
- Leveller A42068000
- Hook for electrical cable A41987307
- Oxygen bottle holder A41897900

### Technical specification:

- 4-sectional mattress base, ABS plastic or metal net, ICU version with X-ray translucent high pressure laminate
- 80 cm or 90 cm frame epoxy coated or chromed
- castors Ø 125, 150 or 200 mm, optional 5th wheel
- Weight 100 -110 kg, ICU: 118 - 130 kg
- Length 2154 mm (without bumpers)
- Height 295 - 890 mm, ICU: 373 mm - 878 mm (125 mm castors)
- Width 800 mm, (with side rails 885 mm) 900 mm, (with side rails 985 mm)
- SWL 330 kg
- Leg section adjustment  $-24^{\circ}$  -  $+29^{\circ}$
- Back section adjustment  $0^{\circ}$  -  $+70^{\circ}$
- Trendelenburg adjustment  $-6^{\circ}$  -  $+12^{\circ}$



Optional fifth wheel A41856300



Fifth wheel

On the left is shown how the turning radius decreases with the assist of the fifth wheel. On the right the radius without the fifth wheel.



128009784



A41955500



128009768



A41987800



100005780



100000499



100000713



Battery A41956300



A42097900



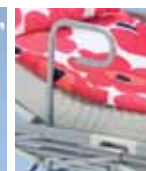
A41955300



128009790



A41884100



A4184500



100000127



100009756



100000701



A41986900



A42038900



A42066600



A41980200



A42068000



A41987307



A41897900





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