CARENA™
Hospital bed
The ergonomic choice for both patients and nurses
The modern hospital bed that meets even the most demanding needs

The revolutionary hospital bed Carena by Merivaara combines all the features that professional nursing staff most ask for. What is more, Carena meets the needs of today: the design takes into consideration constantly increasing average patient weights and the relative number of elderly patients. Merivaara’s Carena bed has a minimum height that makes it easy for smaller patients to get in and out of bed on their own. The maximum safe working load is 330 kg, which means the bed carries even the heaviest patients. This hospital bed is an ideal choice for emergency room and long-term care, intensive care and nursing homes.

Carena offers patients the best possible ergonomics. Several functions have been added to the design to ensure a fast and a pleasant recovery process. Carena is true to its name – it is the best choice for healing, care and caring.

Patented premium care
Merivaara has several patents for its Carena hospital bed. Patented features that you can only find in Carena include the unique mechanism for attaching the castors to the bed frame, as well as a patent for Carena’s distinctive lifting and Trendelenburg mechanisms, design and stability. The light, easy-to-use three-quarter side rail, which is operated with a gas spring is also patented by Merivaara. Carena’s lifting mechanism’s joint design has been granted design protection.
Revolutionary features

**High safe working load**: 330 kg

**Unique lower and upper height**: 310–890 mm*

**Unparalleled patient ergonomics**
- 4-sectional mattress base
- Electric Trendelenburg as an option
- Possibility to let patients adjust the bed themselves

**State-of-the-art ergonomics for the nurse**
- Ergonomic working positions
- Easy to clean
- Multifunctional accessories
- Lightness in the braking system

**Comfortable to use**
- Light weight (100kg) and easy transporting
- Innovative structure and new design
- Exceptional range of colours
- Long service life-cycle and convenient maintenance

**New gas spring assisted 3/4 side rails**
- Extremely light to handle
- Descends smoothly
- No risks of squeezing injuries
- High enough to use with thick intensive care mattresses. Patent pending for Merivaara

* depending on castor size
Carena combines comfort and convenience

4-sectional mattress base
The re-measured thigh section ensures a comfortable position for the patient when adjusting the mattress base and effectively prevents the patient from sliding when the back section is moved. Correct, variable treatment positions are of the utmost importance for patient well-being and they are easy to carry out with the 4-sectional mattress base.

Excellent safe working load 330 kg
Average patient weights are constantly increasing and placing heightened demands on product durability. Carena breaks new ground here as well – it has a remarkable maximum safe working load, 330 kg, with a maximum patient weight of 300 kg.

Patients can get in and out on their own
The solid construction of Carena hospital bed combined with optional grab handle possibility on both sides and lifting pole makes it easy for patients to get in and out of the bed on their own.
Electric Trendelenburg

Electric Trendelenburg is often used to position the patient for treatment. The new structure of Carena 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. Manual Trendelenburg is also available.

Unique lower height 310 mm

The unique and revolutionary lower height of 310 mm makes the Carena bed independently accessible even for the smallest patients. It is easy and safe to get in and out of bed – an excellent feature for geriatric care, among others.

A range of Merivaara beds designed for all treatment needs

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Improved ergonomics help hospital staff

Carena was made to answer 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 features will make our bed a nursing staff favourite.

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 be done even when the bed is in its lowest position. The unique lifting mechanism has been patented.
Easy to use, easy to care

**Carena takes the effort out of many routines**
With Carena, the work efficiency of hospital staff can increase considerably. Carena has been designed to help nursing staff in their everyday work and take the effort out of many of the routines involved in patient care. Routine-easing design features include an optional foldable bed end, which also serves as a fold-down bedding surface and mattress holder – designed to make routines such as cleaning and bed making much easier and more efficient.

**Easy brake access**
The new brake pedal design makes it easier for hospital personnel to press and release the brake. The location of the brake is more ergonomic and the distance to reach the pedal is considerably reduced.

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

**An optional accessory rail**
Instead of the standard side rails, an accessory rail can be attached to the side of the bed that enables the use of arm rests. (Optional accessory)

**Light manoeuvrability**
Carena’s manoeuvrability was emphasized when designing the bed structure and features, meeting demand for patient load, and selecting castor materials. The bed itself weights approximately 100 kg; ensuring maximum ease of manoeuvring. Together these features make Carena wonderfully easy to move, even while transporting large patients.
Get well soon – with Carena, the reliable partner in care

Top quality meets all regulations

The Carena hospital bed meets all the newest directives and regulations for medical devices: EN 60601-1, EN 60601-1-2, EN 60601-2-52.

Merivaara’s product design and manufacture are certified according to ISO 9001:2000 and ISO 13485:2003 quality management system and ISO 14001:2004 environmental management system standards.
Versatility – maintenance – long life cycle

Versatile range of accessories
With a wide range of accessories Carena is suitable for emergency room, long-term care or intensive care use. Merivaara’s most popular bed accessories are compatible with Carena. Older bed models are easily upgraded with new, colourful and compatible accessories.

Long service life-cycle
Carena has a long service life-cycle. Carena beds are durable and easy to maintain, designed for long-term, high-wear use. Carena’s IP-class is IP66, so the bed is machine washable with the hospital’s automatic washing system.

Easy maintenance
Thanks to Carena’s design, maintenance is easier than ever: removable base plates give easy access to necessary components. The bed adjustments and structure are simple to upkeep and the need for maintenance is minimal.

Exceptional range of colors
Merivaara offers a wide variety of colors for the beds. There are now 10 standard colors to choose from and an anti-bacterial option is also available. With Carena you can create a treatment environment that is enjoyable and comfortable for both patients and personnel.
## Accessories

### Mattress
- Medi-Form visco-elastic 80 cm, hyg. cover
- Medi-Form visco-elastic 90 cm, hyg. cover
- Medi-Flex-Safe, hygienic cover, 80 cm
- Medi-Flex-Safe, hygienic cover, 90 cm
- Basic mattress, 80 cm
- Basic mattress, 90 cm

### Side Rails
- 3/4 side rail with gas spring
  - epoxy coated or chromed
- 1-sectional, foldable
  - epoxy coated or chromed

### Bed Ends
- Bed end, 80 cm
- Bed end, 90 cm
- Foldable bed end, 80 cm
- Foldable bed end, 90 cm
- Ergonomic bed end (height 48 cm) 80 cm
- Ergonomic bed end (height 48 cm) 90 cm
- Ergonomic bed end (height 40 cm) 80 cm
- Ergonomic bed end (height 40 cm) 90 cm
- Basic ergonomic bed end 80 cm
- Basic ergonomic bed end 90 cm

### Mattress Base
- 4-sectional, 80 cm
- 4-sectional, 90 cm
- X-ray mattress base 80 cm
- X-ray mattress base 90 cm

### Mattress Base Cover Plates
- 80 cm ABS
- 90 cm metal net

### Back Section with Neck Support
- 80 cm metal net with neck support
- 90 cm metal net with neck support

### Leg Section
- Leg section 80 cm
- Leg section with 30 cm extension, 80 cm
- Leg section 90 cm
- Leg section with 30 cm extension, 90 cm

### Colors
- 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

### Mattress Base/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
Castors
125 mm PJP and Design
150 mm PJP and Design
200 mm Design
The fifth wheel as a factory assembled option A41856300

Baskets
Journal basket 128009784
Utility basket A41955500

Plane
Monitor/journal plane 128009768

Electrical Components
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 (incl. adapter) A41884100
Adapter for lifting pole A42193400
Grab handle A41842500
Arm rest 100000127
Foldable push bars 100000756
Accessory rail, 1 pc 100000701
Mattress support A41986900
Holder for hand control A42038900
Support grab handle and holder for hand control A42086600
Accessory fixing points for back section A41980200
Leveller A42080800
Hook for electrical cable A41987307
Hook for mains cable Ø 25 A42095950
Oxygen bottle holder, 5 kg 1000005870
Reading light 100000498

For improved mobility

On the left you can see how the turning radius decreases with the help of the fifth wheel. On the right is the radius without the fifth wheel.

Fifth wheel

Technical specification
- 4-sectional mattress base, ABS plastic or metal net,
- X-ray mattress base 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 310–815 mm (+ICU 600 mm) with 125 mm castors
- Width 800 mm, (with side rails 885 mm)
- SWL 330 kg
- Leg section adjustment −24°~ +29°
- Back section adjustment 0°~ +70°
- Trendelenburg adjustment −6°~ +12°
Merivaara is a Finnish company operating globally that provides a wide range of hospital furniture such as operating tables, medical lights, trolleys for transportation and day surgery, delivery beds and patient beds. Our versatile solutions enable convenient and cost-effective physical patient flow within the hospital, day surgery and health clinics.

Merivaara has more than 100 years experience in designing and manufacturing hospital furniture. Today, Merivaara’s products and solutions are highly appreciated by users in more than 100 countries thanks to their ease-of-use, reliability and functional design.

All products are CE labelled. Merivaara’s quality system complies with EU directives for medical device, and is certified according to ISO 9001:2008 and ISO 13485:2003 quality standards. The company’s environmental management system is ISO 14001:2004 certified.