

OPTIMA™

Labour, delivery and recovery bed

More comfortable
childbirth

MATERNITY



More comfortable childbirth



Giving birth to a child is an overwhelming experience that parents will remember forever. However, it is also an event full of both emotions and physical stress. Reassuring the wellbeing of both mother and baby is crucial for any maternity services and labour ward.

To help make the whole event more comfortable without compromising on health and safety, Merivaara provides a range of ergonomic furnishings for the maternity unit, such as examination tables and lights for antenatal care, delivery beds for labour, as well as baby cribs and patient beds for postnatal care. Additionally, we can offer different types of operating room solutions for the maternity unit or other departments within the hospital.

"We have tried the new Optima and were convinced by its new ergonomic features such as the convenient leg section and its wide range of labour positions. Thanks to its mobility and ease-of-use it also helps improve patient safety."
— HUS Maternity Clinic, Helsinki, Finland

Three different Optima bed models available

Optima labour, delivery and recovery bed family offers more comfortable childbirth during all stages of labour. Several positioning options, ergonomic features, and stable and reliable structure enhance the comfort of mother, newborn baby and midwife. With three different Optima models, the maternity unit can choose the one that best suit their needs and working environment.



During labour

Optima delivery bed – ergonomic, mobile and safe

The renewed Optima bed has been designed with the mother, midwife and obstetrician in mind. We have focused particularly on ergonomics, safety and mobility to help create a better environment for both the family and health care staff.



Both knee crutches and squatting bar can be attached to the seat section with the unique patented locking mechanism or to the leg section with a plug-in system, offering more freedom for different positioning.



New design rail option, both stylish and more hygienic.

- Suitable for all stages of labour, also when special medical attention is required
- Multiple delivery positions in a single unit affords a greater level of comfort for the mother
- The midwife can easily access the mother from different positions thus improving ergonomics and safety
- Electric or manual Trendelenburg, and manual back section quick release for enhanced safety
- Can also be used for transportation within the hospital
- Easy to get in and out of bed thanks to low minimum height
- Antibacterial coating on the frame reduces microbial growth

For more information about Merivaara's maternity, operating room and patient ward solutions, visit our website at www.merivaara.com.

For antenatal care:

Examination tables and lights

Our examination tables are particularly designed for gynaecological examinations and minor procedures. Featuring either electrical or mechanical adjustments, these compact tables combine ergonomics with a functional design and ease-of-use.

The Merivaara range of examination lights offers exceptional depth of illumination with shadowless and steady, infrared-filtered light output.



For postnatal care:

The baby's first bed

After delivery, the newborn baby can be placed in a baby crib close to the mother. The crib is easy to move around and place close to the parent or staff. For improved safety, the crib features Trendelenburg positions and storage underneath.

We also offer patient room furnishing for the postnatal ward.



The large stainless steel bowl under the bed can be pushed under the leg section and pulled out when needed.



Ultra light yet stable, the leg section is easy to manoeuvre and slide in under the bed together with the mattress thus making the work flow faster and more ergonomic. The height adjustable leg section can also bear a workload (SWL) of 80 kg.

Optima 4-motor

Optima 4-motor is the most advanced model offering several electric adjustments and safety features. This model has leg section with height adjustment and tilting. These features provide enhanced possibilities to use various positions during labour. The height

adjustable leg section enables, e.g., delivery in sitting position and also offers an option to use the leg section to support the feet of the mother during the pushing phase. By tilting the leg section, the effect is even more obvious.

Functions

Electric functions:

- Height adjustment
- Back section adjustment
- Leg section height adjustment
- Trendelenburg

Manual functions:

- Leg section movement in/out
- Leg section tilting

Extra safety features:

- Manual Trendelenburg
- Manual quick release for back section



Leg section tilt increases the position variations.



Electrical and manual Trendelenburg improve patient safety.

Optima 2-motor

Optima 2-motor is quite similar to the 4-motor model, but adjustments for Trendelenburg and leg section are manual in this model. The leg section moves manually in/out under the seat section, but doesn't feature height adjustment or tilting. Otherwise Optima's ergonomics and safety features are just as good as in the 4-motor model.



Functions

Electric functions:

- Height adjustment
- Back section adjustment

Manual functions:

- Leg section movement in/out
- Trendelenburg
- Quick release for back section

Optima hydraulic

Optima hydraulic is designed to ensure the best possible usage for the product even if the availability of electricity might fail from time to time. All adjustments in this model are manual. The height of the bed can be adjusted with a

hydraulic pedal, the back section adjustment is gas-spring assisted, and the leg section slides manually in and out, just like in the other models.



Functions

Manual functions:

- Back section (gas spring assisted)
- Height (hydraulic pedal)
- Trendelenburg
- Leg section movement in/out

Multiple positions in a single unit for better comfort

Sitting position

Benefits:

- Efficient pushing position with good ergonomics
- Optimises gravity and helps widen the pelvic opening which makes labour easier

Optima provides:

- Wide foot rests
- Grab handles for enhanced pushing force
- A wide range of leg section adjustments for faster labour and improved midwife ergonomics



Upright position with squatting bar

Benefits:

- Optimises gravity and helps widen the pelvic opening which makes labour easier
- Relaxation of pelvic area allows for a more comfortable delivery for the mother
- Also works in combination with a gymnastic ball

Optima provides:

- Squatting bar for arm support
- Slide-in leg section for more space
- Squatting bar can also be used for standing support

Lateral position

Benefits:

- Makes it easier to relax between the contractions and pushing sessions
- It also minimises pressure on perineum and maximises blood flow to the uterus and the baby
- Ergonomic position for mothers of different sizes

Optima provides:

- A wide range of adjustments for the leg rests
- Convenient locking of the clamps (patented mechanism)



Kneeling position

Benefits:

- Reduces pressure on the diaphragm and improves the blood supply to the contracting muscles
- Easy to find a comfortable pelvic position

Optima provides:

- Wide adjustment of seat and back section
- Slide-in leg section affords lots of space around the patient and the delivery bed



Positions shown in the pictures have been done using the 4-motor model and its height adjustable leg section. Similar positions are possible with the 2-motor and hydraulic models using accessories and/or other adjustments on the bed.

For more positions, visit our website at www.merivaara.com

Overview of all three Optima models



	4-MOTOR	2-MOTOR	HYDRAULIC
Functions	Electric adjustments: • Height • Back section • Leg section height • Trendelenburg Manual functions: • Leg section movement in / out • Leg section tilting For extra safety: • Manual Trendelenburg • Manual quick release for back section	Electric adjustments: • Height • Back section Manual functions: • Leg section movement in/out • Trendelenburg For extra safety: • Manual quick release for back section	• Height • Back section • Leg section movement in/out • Trendelenburg

Technical Specifications

Mattress base	3 sectional	3 sectional	3 sectional
Safe working load (SWL)	230 kg	230 kg	230 kg
Maximum patient weight	190 kg	190 kg	190 kg
Weight	165 kg	118 kg	114 kg
Trendelenburg	12°	12°	12°
Back section angle	78°	70°	60°
Leg section angle	16°	-	-
Height min - max	580–955 mm	590–955 mm	570–935 mm
Bed width	1000 mm	1030 mm	1030 mm
Mattress base width	780 mm	780 mm	780 mm
Bed length min - max	1650–2210 mm	1520–2110 mm	1520–2110 mm
Mattress base length min - max	1300–1900 mm	1320–2010 mm	1320–2010 mm
Leg section height adjustment	0–250 mm (distance between leg section and seat section)	-	-

- Optima labour, delivery and recovery bed complies with all the newest directives and standards for medical device: IEC/EN 60601-1-2 (EMC), IEC/EN 60601-1, IEC/EN 60601-2-52.
- Merivaara's product design and manufacture are certified according to ISO 9001:2008 and ISO 13485:2003 quality management system and ISO 14001:2004 environmental management system standards.



Accessories for all models



Knee crutches, pair
A42462200



Foot rests
A42559000



Infusion rod
4-hooks 100000499



Lifting pole
A41884100



Squatting bar
A42749500



Side rails
A42200100 4-motor model
A42801000 2-motor + hydr. models



Side rails
A42718200 4-motor model
A42750700 2-motor + hydr. models



Arm rest
100000127
for 4-motor model only



Bed end, foldable
A41935200 4-motor model
A41982900 2-motor + hydr. models



Bed end
100009890 4-motor model
100009990 2-motor + hydr. models



Monitor tray
128009769



Accessory rail
100000701
for 4-motor model only



Basket for mattress set
10003974



Journal basket
128009784



Hook for electric cable
A41987307



Foot switch
A42471800
for 4-motor model



Patient control panel, reading light and under bed light (4 motor model)
A42969100



Patient control panel and under bed light (4 motor model)
A43192000 (without reading light)



Attendant control panel ACO
A42471700
For nurses, with possibility to lock electric adjustments, can be placed e.g. to head end or on the side rail. Suitable for 4 motor model.



Foot switch
A42965600
for 2-motor model



Patient control panel, reading light and under bed light (2 motor model)
A42964800





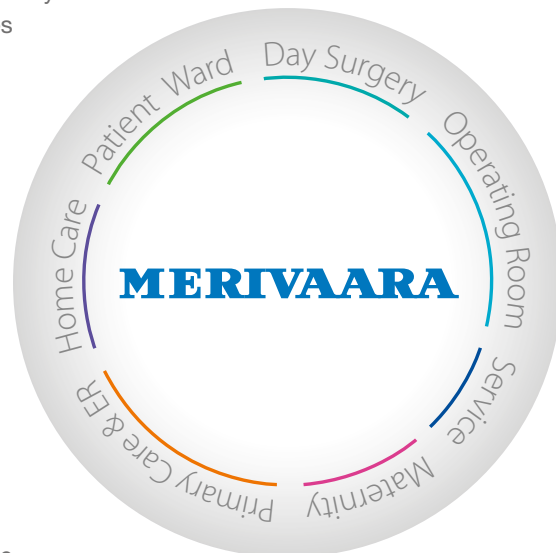
Solutions for efficient physical patient flow and well-being

Merivaara provides a wide range of hospital-grade furniture such as operating tables, medical lights, examination tables, trolleys and stretchers for transportation and day surgery, as well as birthing and patient beds. Additionally, our new concepts include both revolutionary integrated management systems and after-sales services.

Our versatile solutions and product offering enable convenient and cost-effective physical patient flow within the hospital, in day surgery and health clinics, as well as in nursing homes and home care. Our priority is to enhance comfort and well-being of both patients and their caregivers.

Established in 1901, Merivaara has more than 100 years of experience in designing and manufacturing hospital-grade furniture. Today our products are highly appreciated by users in more than 120 countries thanks to their ease-of-use, durability and ergonomic design.

Merivaara's medical products are CE-labelled and the company's quality management system complies with EU directives for medical device. It is certified by DNV according to ISO 9001:2008 and ISO 13485:2003 standards. The company's environmental management system is ISO 14001:2004 certified.



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