Malsch
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Hospital and care beds for psychiatric facilities

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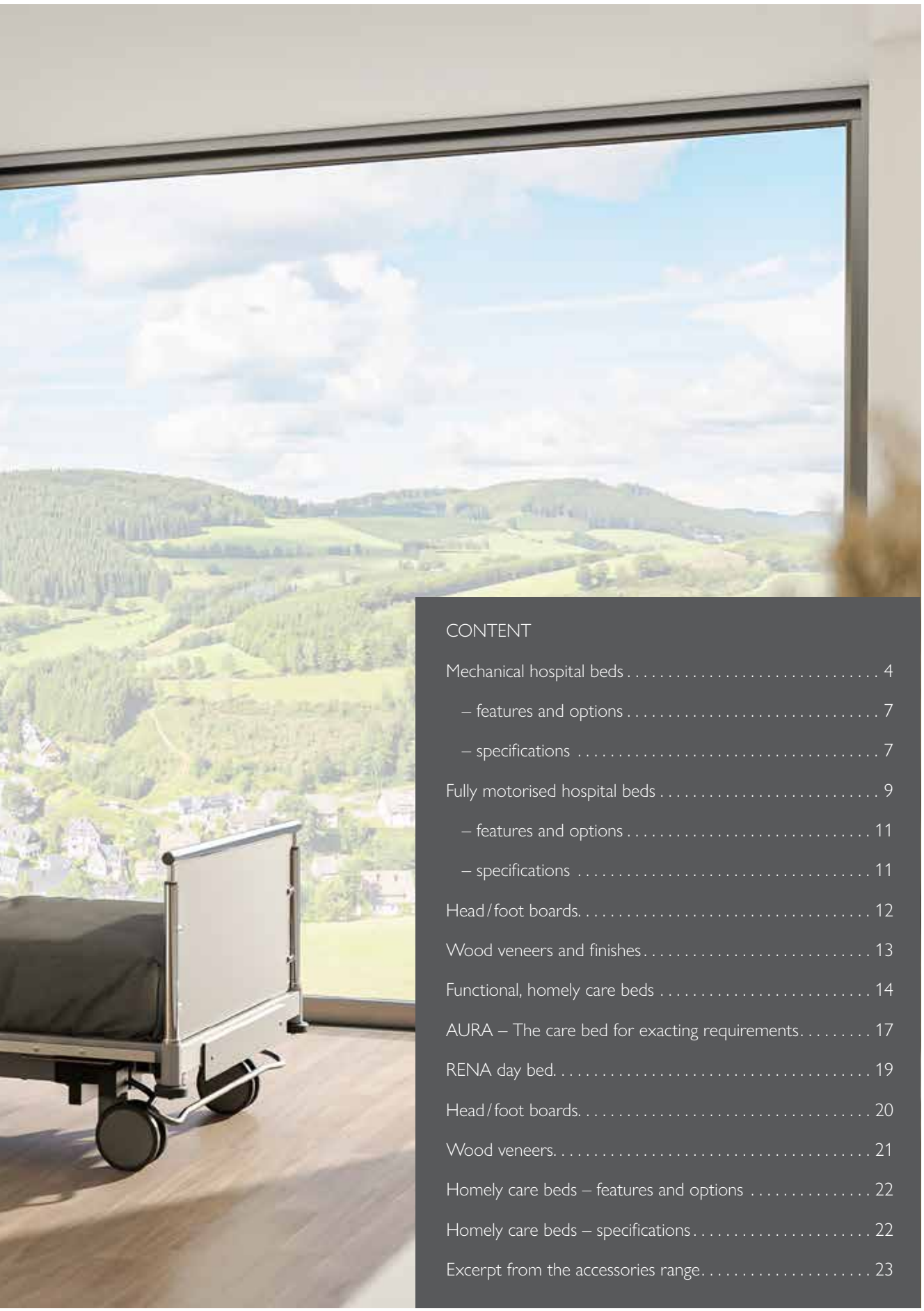

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Mechanical hospital beds

IMPULSE **KL-M Edition 300-P**

The IMPULSE KL-M Edition 300-P hospital bed is specifically designed to meet the high stability and safety standards of psychiatric facilities. With specially secured components and mechanical height adjustment, the solid special bed is ideally suited to the daily challenges of psychiatric environments. There are various configuration options, depending on the intended use. The IMPULSE KL-M Edition 300-P features axial swivelling of the sleeping surface into the Trendelenburg or reverse-Trendelenburg positions. The ISO standard rail with restraint grid, which is fixed on both sides, has a bracket for accessories and can also be used to attach fixing straps.

ⓘ Overview of equipment & options: P. 7
Head / foot board selection: P. 12

Configuration shown:

- Hydraulic height adjustment 40 - 80 cm
- Mechanical sleeping surface adjustment
- Four-part, firmly welded metal mesh sleeping surface
- Restraint bar on the sleeping surface
- ISO standard rail with restraint grid on both sides
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Pull-out bed linen holder
- Head / foot boards cannot be removed without tools
- Reinforced head / foot boards with reduced gaps
- Central brake with directional locking

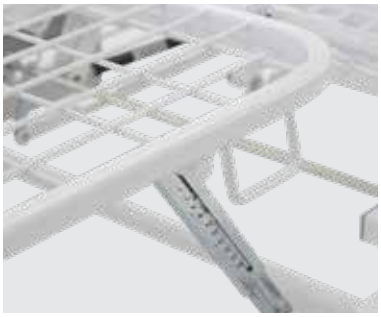
The comfort sitting position has a positive effect on the patient's vital functions and promotes communication.

The IMPULSE KL-M Edition 300-P hospital bed is optionally available with full-length side rails that can be installed without tools.

ISO standard rail with restraint grid for attaching belt systems and accessories

150 mm double castors with central brake and directional locking

Integrated bed linen holder



Firmly welded metal mesh sleeping surface with restraint bars

IMPULSE **KL-M Edition 200-P**

Easy height adjustment

The IMPULSE KL-M Edition 200-P hospital bed is specially designed for use in psychiatric facilities. The adjustment options of this mechanical hospital bed are limited to height adjustment and, for the version with four-part sleeping surface, to the selective adjustment of the back rest, upper and lower leg supports.

With this edition as well, the ISO standard rail with restraint grid attached on both sides includes a practical bracket for accessories, which is additionally suitable for attaching fixing straps. The individual components can be configured depending on costumer requirements.

ⓘ Overview of equipment & options: P. 7
Head / foot board selection: P. 12

Full-length side rails that can be installed without tools (optional)

Firmly welded metal mesh sleeping surface with restraint bars

150 mm single castors with central brake

Configuration shown:

- Hydraulic height adjustment 40 - 80 cm
- Mechanical sleeping surface adjustment
- Four-part, firmly welded metal mesh sleeping surface
- Restraint bar on the sleeping surface
- ISO standard rail with restraint grid on both sides
- Integrated bed extension
- Pull-out bed linen holder
- Head / foot boards cannot be removed without tools
- Reinforced head / foot boards with reduced gaps
- Central brake

Mechanical hospital beds – features and options

IMPULSE KL-M	Edition 300-P	Edition 200-P
Entry height	40 cm	40 cm
Working height	80 cm	80 cm
Comfort sitting position	•	-
Trendelenburg / reverse-Trendelenburg position	•	-
Back rest mattress compensation	•	•
Bed extension 10 cm / 20 cm	•	•
Bed linen holder	•	•
Castors	150 mm double castors	150 mm single castors
Central brake	•	•
Swivel-mounted, split side rail (GS)	o	o
Full-length side rail (DS) that can be installed without tools	o	o
Two-part sleeping surface	o	o
Four-part sleeping surface	•	•
ABS sleeping surface	o	o
Firmly welded metal mesh sleeping surface	•	•
Head / foot boards that can be removed without tools	o	o
Restraint bar on the sleeping surface	•	•
ISO standard rail with restraint grid on both sides	•	•
Removable height pedal with safeguard	o	o

• Standard o optional Deviations from the standard scope are possible on a customer-specific basis.

Mechanical hospital beds – specifications

Dimensions and weight	Edition 300-P	Edition 200-P
Sleeping surface	200 x 90 cm	200 x 90 cm
Outer dimensions	218 x 107 cm	218 x 107 cm
Safe working load	max. 250 kg	max. 250 kg
Underneath access	13 cm	13 cm
Total weight	approx. 130 kg	approx. 130 kg

Fully motorised hospital beds

IMPULSE **KL Edition 400-P**

Hospital bed for fall prevention

The psychiatric version of the tried-and-tested IMPULSE KL low hospital bed ensures fall prevention in psychiatric environments. The stable all-rounder impresses with its flexible application options and durable, high-quality materials.

With a floor height of only 30 cm in the low position, the IMPULSE KL Edition 400-P provides more safety for patients and care staff. The low hospital bed offers groups at risk of falling an alternative to freedom-reducing measures.

ⓘ Overview of equipment & options: P. 11
Head / foot board selection: P. 12

Configuration shown:

- Electric adjustment functions
- Height adjustment 30 - 83 cm
- 30 cm low position for fall prevention
- Four-part, firmly welded metal mesh sleeping surface
- Restraint bar on the sleeping surface
- ISO standard rail with restraint grid on both sides
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Pull-out bed linen holder
- Head / foot boards cannot be removed without tools
- Central brake with directional locking

IMPULSE **KL Edition 300**

Hospital bed with universal properties

The IMPULSE KL Edition 300 undercarriage is technically different and requires a higher entry position and a wider adjustment area. With an optional 5th castor, the universal bed offers perfect manoeuvrability for frequent patient transports. The IMPULSE KL Edition 300 bed extension is equipped with a comfort release mechanism.

ⓘ Overview of equipment & options: P. 11
Head / foot board selection: P. 12

Comfort release of the integrated bed extension

Four-part sleeping surface with restraint bar

Vertically retractable split side rail with one-handed operation

Configuration shown:

- Electric adjustment functions
- Height adjustment 36 - 86 cm
- Four-part ABS sleeping surface
- Restraint bar on the sleeping surface
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Pull-out bed linen holder
- Head / foot boards cannot be removed without tools
- Central brake with directional locking
- Vertically retractable split side rail with one-handed operation

Fully motorised hospital beds – features and options

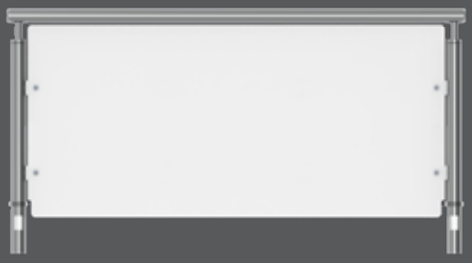
IMPULSE KL	Edition 400-P	Edition 300
Low position	30 cm	36 cm
Working height	83 cm	86 cm
Fall prevention	•	-
Transfer position	•	•
Comfort sitting position	•	•
Trendelenburg / reverse-Trendelenburg position (lockable)	•	•
CPR emergency lowering	•	•
Back rest mattress compensation	•	•
Bed extension 10 cm / 20 cm	•	•
Bed linen holder	•	•
Double castors	150 mm	150 mm
5th castor	○	○
Central brake with directional locking	•	•
Swivel-mounted, split side rail (GS)	○	○
Vertically retractable split side rail with one-handed operation (EVGS)	○	○
Full-length side rail (DS) that can be installed without tools	○	○
Removable patient hand controller	○	○
Additional horizontal patient hand controller	○	○
Two-part sleeping surface	○	○
Four-part sleeping surface	•	•
ABS sleeping surface	○	•
Firmly welded metal mesh sleeping surface	•	○
Head / foot boards that can be removed without tools	○	•
Head / foot boards firmly bolted	•	○
Bed exit system	○	○
Brake alarm	○	○
Under bed lighting	○	○

• Standard ○ optional

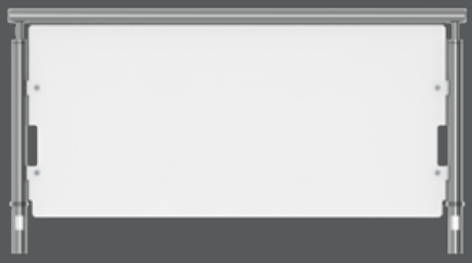
Fully motorised hospital beds – specifications

Dimensions and weight	Edition 400-P	Edition 300
Sleeping surface	200 × 90 cm	200 × 90 cm
Outer dimensions	206 × 100 cm	206 × 100 cm
Safe working load	max. 250 kg	max. 250 kg
Underneath access	13 cm	13 cm
Total weight	approx. 130 kg	approx. 130 kg

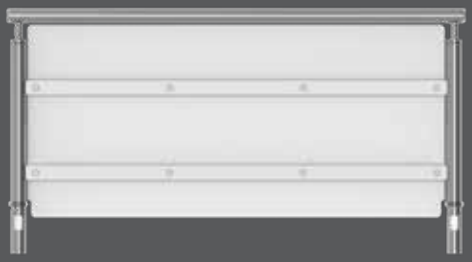
Head / foot boards



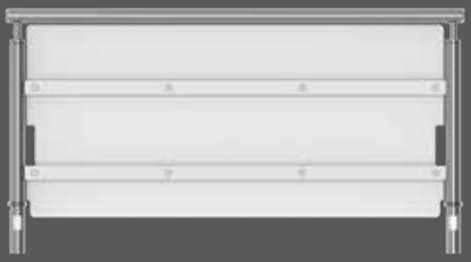
V1110 (chrome-plated, removable)
V1111 (chrome-plated, screwed)
- Round tube handrail
- High design without circumferential gap
- No recesses in the filler panel



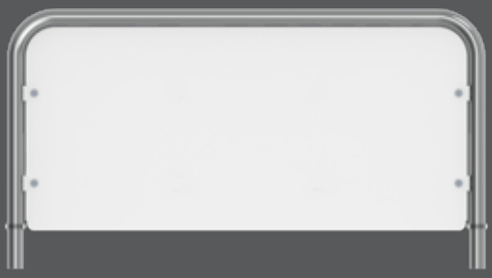
V1120 (chrome-plated, removable)
V1121 (chrome-plated, screwed)
- Round tube handrail
- High design without circumferential gap
- Lateral recesses in the filler panel for attaching full-length side rails



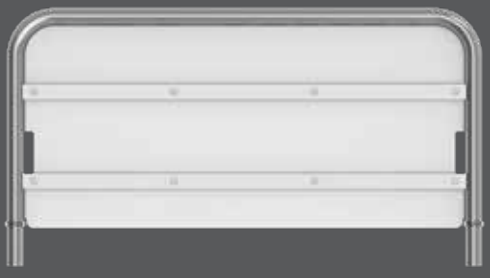
V1130 (chrome-plated, removable)
V1131 (chrome-plated, screwed)
- Round tube handrail
- High design without circumferential gap
- External reinforcement with steel rail
- No recesses in the filler panel



V1140 (chrome-plated, removable)
V1141 (chrome-plated, screwed)
- Round tube handrail
- High design without circumferential gap
- External reinforcement with steel rail
- Lateral recesses in the filler panel for attaching full-length side rails



V2110 (chrome-plated, removable)
V2111 (chrome-plated, screwed)
- Round tube handrail with rounded corners
- High design without circumferential gap
- No recesses in the filler panel



V2140 (chrome-plated, removable)
V2141 (chrome-plated, screwed)
- Round tube handrail with rounded corners
- High design without circumferential gap
- External reinforcement with steel rail
- Lateral recesses in the filler panel for attaching full-length side rails

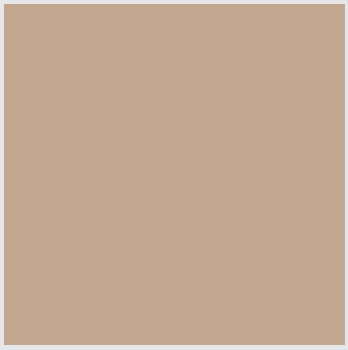
Wood veneers and finishes

Plain maple 0102 FH

Charles 0538 FH

Tosca 0269 FH

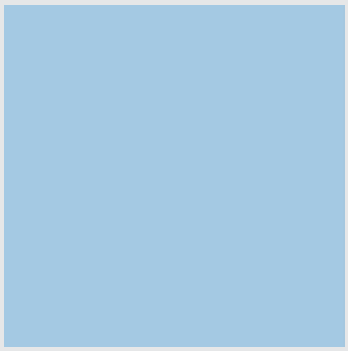
White 0085 FH



Cappuccino 0319 FH

Sand coloured 0066 FH

Warm dark grey 0755 FH



Arktis 0718 FH

Lamar 0023 FH

Graphite grey 0077 FH

Accurately colour-matched design selection only with the original pattern. Similar alternative designs from other manufacturers may be used in the event of unavailability. More designs at **bettenmalsch.com**

Functional, homely care beds

IMPULSE **Edition 400 LR**

Mobile low care bed
with 100 mm double castors

The IMPULSE Edition 400 LR care bed combines mobility and comfort. 100 mm double castors and a central brake as well as a large adjustment area of 25 to 82 cm allow for flexibility in everyday care and make this care bed the perfect all-rounder.

Configuration shown:

- Electric adjustment functions
- Height adjustment 25 - 82 cm
- Low bed for fall prevention
- Four-part ABS sleeping surface
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Customisable wood finishes and head / foot boards
- Central brake with directional locking
- Vertically retractable split side rail at the head of the bed

Comfort sitting position

Version with swivel-mounted, split side rail

15 cm floor height – extended fall prevention

IMPULSE **Edition 500**

Ultra-low care bed for optimum fall prevention

The IMPULSE Edition 500 offers **maximum fall prevention** and unrestricted functionality without the need for additional safety elements. A sleeping surface height of only 15 cm in the lowest position means there is almost no risk of injury from rolling out of bed.

The height of the ultra-low care bed is continuously adjustable from **15 to 75 cm by means of an electric motor**. The Trendelenburg and reverse-Trendelenburg positions as well as a tried-and-tested comfort sitting position are among the basic functions.

Configuration shown:

- Electric adjustment functions
- Height adjustment 15 - 75 cm
- Ultra-low bed for extended fall prevention
- Four-part metal mesh sleeping surface
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Customisable wood finishes and head / foot boards
- Axis brake

IMPULSE **Edition 420 LR**

Basic care bed

With a floor height of just 27 cm, the three-motor basic version offers an **economical alternative** to the Edition 400 LR. Due to its design, the bed does not allow for axial swivelling of the sleeping surface.

Configuration shown:

- Electric adjustment functions
- Height adjustment 27 - 82 cm
- Low bed for fall prevention
- Integrated bed extension
- Customisable wood finishes and head / foot boards
- Central brake
- Swivel-mounted, split side rail at the head of the bed

IMPULSE **Edition XL**

Bariatric care bed

Bariatric bed –
300 kg safe working load

With a safe working load of **300 kg**, the IMPULSE Edition XL meets the highest requirements. The sturdy design with reinforced construction and bariatric drive set is suitable for residents weighing up to 250 kg. The **100 mm double castors with a central brake** enable secure mobility and stable positioning.

Configuration shown:

- Electric adjustment functions
- Height adjustment 33 - 83 cm
- Safe working load of 300 kg
- Four-part, firmly welded metal mesh sleeping surface
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Customisable wood finishes and head / foot boards
- Central brake with directional locking
- Stable, swivel-mounted aluminium side rails

The care bed for exacting requirements

AURA

Whether in a classic wooden design or as a modern upholstered bed with leather quilting, the **award-winning AURA low care bed** offers a combination of elegance and maximum functionality. The hidden castors and central brake enhance its extremely homely character.

Configuration shown:

- "Loft" design option
- Electric adjustment functions
- Height adjustment 25 - 82 cm
- Low care bed for fall prevention
- Trendelenburg / reverse-Trendelenburg position
- Comfort sitting position
- Integrated bed extension
- Central brake
- Customer-specific customisation thanks to a wide range of leather and fabric options

AURA is also available in a classic wood version and a wide range of finishes.

IMPULSE **KL-M Edition 200-W**
Robust, mechanical care bed with a homely design

Specially developed for psychiatric facilities, the IMPULSE KL-M Edition 200-W offers homely comfort without electrical components or cables. The deliberate elimination of components that can be removed without tools helps to maintain a high safety standard for patients with psychiatric conditions.

In addition to the version with full-length side rails, the IMPULSE KL-M Edition 200-W is optionally available with swivel-mounted, split side rails.

Customisable wood finishes and head / foot boards

ⓘ Overview of equipment & options: P. 22
Head / foot board selection: P. 20

Configuration shown:

- Hydraulic height adjustment 40 - 80 cm
- Mechanical sleeping surface adjustment
- Four-part, firmly welded metal mesh sleeping surface
- Robust design with 250 kg safe working load
- Restraint bar on the sleeping surface
- Head / foot boards cannot be removed without tools
- Central brake
- Full-length sides rails (not removable)

RENA day bed

RENA Edition 100

The robust, one-piece RENA 100 day bed is particularly suitable for sensitive areas of psychiatric facilities. The bed and sleeping surface are made of firmly attached, solid hardboards. For better ventilation of the mattress, the sleeping surface is perforated.

Configuration shown:

- One-piece overall construction for maximum stability
- Sleeping surface made of perforated hardboard

RENA beds are usually delivered fully assembled and cannot be dismantled. The RENA Editions 200/220 are optionally available with a bed box fitting and can be delivered disassembled.

RENA Edition 200

This classic construction of the day bed offers a high degree of stability. Equipped with a firmly attached, two-part metal mesh sleeping surface, the back rest can be adjusted mechanically by means of an adjustable notched bracket. The RENA can optionally be configured in numerous wood finishes.

Configuration shown:

- Stable, firmly bolted overall construction
- Firmly welded metal mesh sleeping surface
- Adjustable back rest
- Free choice of finish

RENA Edition 220

The RENA Edition 220 has a static sleeping surface without any adjustment options. This extremely sturdy version of the day bed is fully assembled at the factory and cannot be dismantled. Its stable design is suitable in particular for sensitive areas of psychiatric facilities.

Configuration shown:

- One-piece overall construction for maximum stability
- Sleeping surface made of perforated hardboard

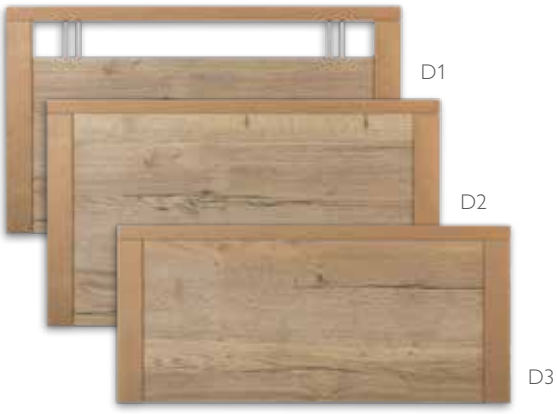
Head / foot boards

Choose from six different designs to find a suitable head / foot board*. Attractive wood veneers offer creative freedom when designing your project.

V450 series

V470 series

V480 series



V490 series

V408 series

V500 series

* not for RENA and AURA “Loft”

Wood veneers

The finish selection shows reproductions. Accurately colour-matched design selection only with the original pattern. Similar alternative designs from other manufacturers may be used in the event of unavailability. More designs at **bettenmalsch.com**

Polar Aland Pine H3433

Bavaria Beech H1511

Ellmau Beech H1582

Natural Mandal Maple H3840

Verona Cherry H1615

Locarno Cherry H1636

Sand Lyon Ash H1298

Light Sorano Oak H1334

Lorenzo Oak H3146

White Halifax Oak H1176

Natural Halifax Oak H1180

Tobacco Halifax Oak H1181

Homely care beds – features and options

	Edition 400 LR-P	Edition 420 LR-P	Edition 500	Edition XL	AURA	KL-M Edt. 200-W	RENA 100 / 200 / 220
Low position / entry position	25 cm	26 cm	15 cm	33 cm	25 cm	40 cm	40 cm
Working height	82 cm	82 cm	75 cm	83 cm	82 cm	80 cm	-
Fall prevention	•	•	•	-	•	-	-
Transfer position	•	-	•	-	•	-	-
Comfort sitting position	•	-	•	•	•	-	-
Trendelenburg / reverse-Trendelenburg position (lockable)	•	-	•	•	•	-	-
CPR emergency lowering	o	o	-	o	o	-	-
Back rest mattress compensation	•	•	•	•	•	•	-
Bed extension 10 cm / 20 cm	•	•	•	o	•	•	-
Bed linen holder	o	-	-	o	o	o	-
Castors	150 mm double castors	150 mm double castors	60 mm double castors	100 mm double castors	50 mm double castors	150 mm double castors	-
Central brake	•	•	• per axis	•	•	•	-
Vertically retractable split side rail with one-handed operation (EVGS)	•	•	-	-	•	-	-
Swivel-mounted, split side rail (GS)	o	o	-	•	-	-	-
Full-length side rail (DS)	o	o	o	o	-	•	-
Static mobility aid, extendable	-	-	o	-	-	-	-
Drive system with safety extra-low voltage	•	•	•	•	•	•	-
Hand controller with locking function	•	•	•	•	•	-	-
Restraint bar on the sleeping surface	o	o	o	o	o	•	-/o/-
Two-part sleeping surface	o	o	-	-	-	-	-/•/-
Four-part sleeping surface	•	•	•	•	•	•	-
Comfort sleeping surface	o	-	o	-	o	-	-
ABS sleeping surface	o	o	o	-	•	o	-
Metal mesh sleeping surface	•	•	•	-	o	o	-/•/-
Firmly welded metal mesh sleeping surface	o	o	o	•	o	o	
Metal slat sleeping surface	o	o	o	-	-	•	-
Under bed lighting	o	o	o	o	o	-	-

• Standard ° optional

Homely care beds – specifications

Dimensions and weight	Edition 400 LR-P	Edition 420 LR-P	Edition 500	Edition XL	AURA	KL-M Edt. 200-W	RENA 100 / 200 / 220
Sleeping surface	200 × 90 cm	200 × 90 cm	200 × 90 cm	200 × 100 cm	200 × 90 cm	200 × 90 cm	200 × 90 cm
Outer dimensions	206 × 100 cm	218 × 107 cm	218 × 107 cm	206 × 110 cm	206 × 103 cm	218 × 107 cm	218 × 107 cm
Safe working load	max. 225 kg	max. 200 kg	max. 200 kg	max. 300 kg	max. 225 kg	max. 250 kg	
Underneath access	15 cm	17 cm	-	13 cm	13 cm	13 cm	
Total weight	approx. 130 kg	approx. 135 kg	approx. 126 kg	approx. 150 kg	approx. 130 kg	approx. 130 kg	

Excerpt from the accessories range

Trapeze bar

IV drip stand
straight plastic / stainless steel
bent plastic / stainless steel

Urine bottle basket
for DIN standard rail

Bedside cabinet WK1-P

Bedside cabinet WK1

Bedside cabinet WK III-P

Bedside cabinet W1 standard

Bedside cabinet W1 low

Bedside cabinet W III

Server WXL

Our extensive range of furniture and accessories can be found in separate catalogues.

We'll be happy to send you a copy by mail. Alternatively, you can download the PDF files at **de.bettenmalsch.com / download**.

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