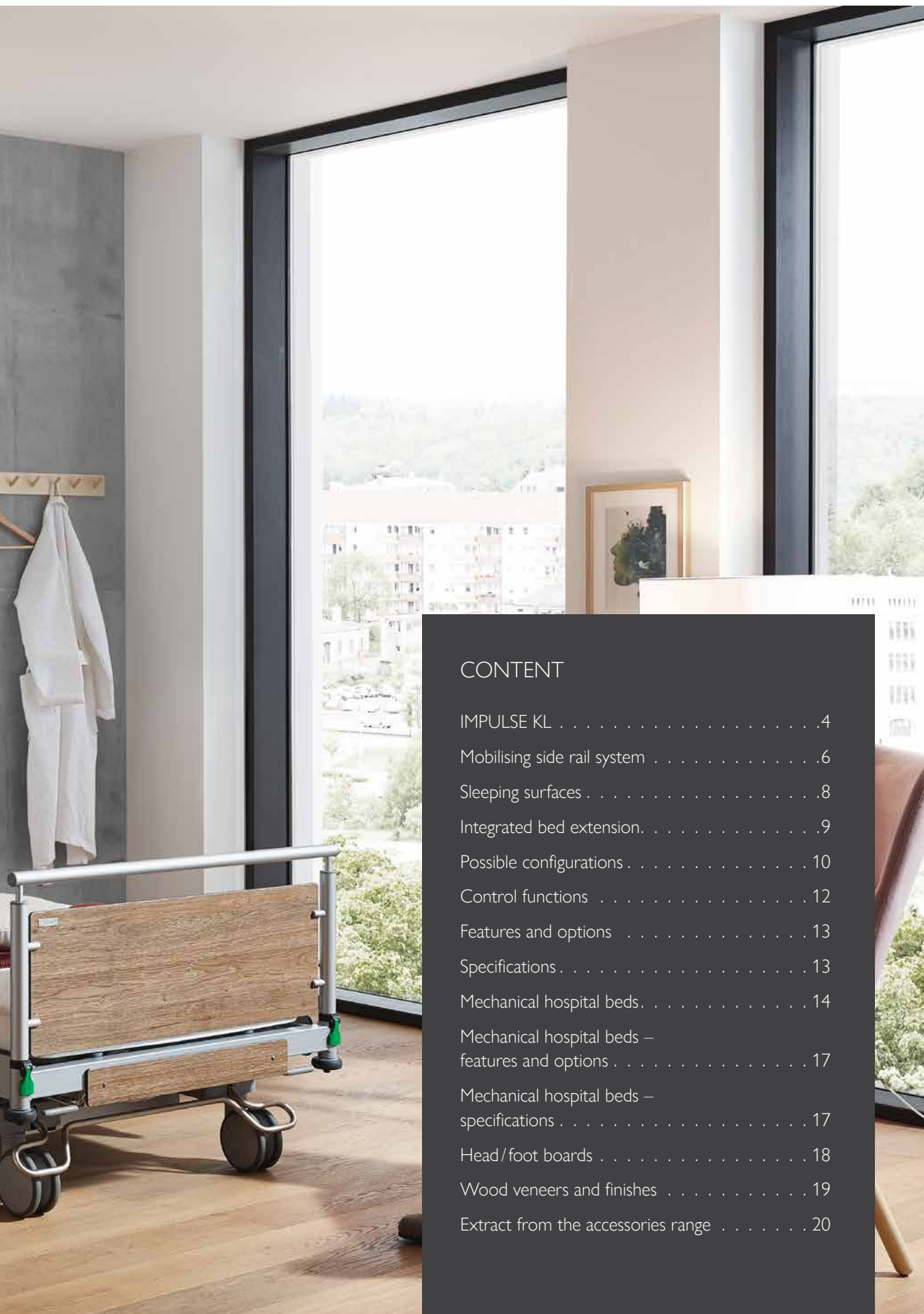


## Clinic and Hospital Beds







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# IMPULSE KL

## Safety. Comfort. Functions.

With a flexible configuration that can be adapted to almost any application in clinics and hospitals, the IMPULSE KL hospital bed is a versatile all-rounder in inpatient care.

With extensive fixtures and fittings such as a radiolucent back rest, centred castor for improved manoeuvrability, an acoustic brake alarm, additional hand controllers etc., the IMPULSE KL can flexibly adapt to requirements on the ward.

Its universal benefits and excellent product quality offer economic advantages through long-term planning and investment security.







Increased comfort for patients: the automatic chair position improves spatial orientation. The mattress compensation of the back rest effectively relieves pressure in the seat area.

Carers are subjected to tough physical demands on a daily basis. Rapid motorised adjustment of the care height improves ergonomics in the daily care process. The stable, vertically retractable side rails system reliably ensures the safety of patients and offers support when repositioning patients.



Fast reactions in the event of an emergency: the shock position can be activated via a button on the staff controller. The mechanical CPR lever that is accessible on both sides enables the back rest to be lowered immediately. To provide better emergency care with optimal access to patients, the head/foot boards on the IM-PULSE KL can be removed in seconds by using the quick release mechanism.



# Mobilising side rail system



Increased flexibility with the vertically retractable side rail system on the IMPULSE KL: the stable and elegant aluminium safety elements can be set to four height positions for various applications.

The telescopic version with its convenient one-handed operation does not require any lateral space and is easy to access and use even in small rooms or in close proximity to furniture and bedside cabinets.

The well-designed construction of the safety element at the head end can directly support patients as a stable mobilisation rail.

An ISO accessory rail that is integrated in the side rails at the foot end serves as a practical accessory holder for urine or drainage bags, for example.



Quick and easy to use thanks to the intuitive one-handed operation on the vertically retractable side rail system.

## Repositioning

A slightly raised handrail in this position creates a tactile boundary around the sleeping surface to prevent patients unconsciously rolling out of bed. Equally, it makes repositioning easier since patients can use the handrail at mattress level to remain in a lateral position while the care staff clean their back or change the bed pad, for example.



## Stable mobility aid

The mobility-supporting side rail position provides patients with a stable grab handle with an appropriate radius that enables them to get into or out of bed safely.



## Safety

In addition to a simple protective height, the vertically retractable side rail system has an extended height position that is achieved by using the telescopic handrail.



## Rest position

In the rest position, the side rails provide care staff with unrestricted access to patients.





# Sleeping surfaces



The IMPULSE KL hospital bed has an optional radiolucent back rest

The well-designed four-part sleeping surface with mattress compensation offers outstanding ergonomics and a high degree of comfort for patients.

High-quality ABS plastic layers make it easy to clean and disinfect and especially suitable for sensitive areas in clinics and hospitals.

Beds with special dimensions such as the bariatric hospital bed IMPULSE KL Edition XL are equipped with a stable Metal Grid Lying Surface.



# Integrated bed extension

Daily changing patients require staff and products to be flexible. The standard version of the IMPULSE KL hospital bed with the undercarriage configuration has an integrated bed extension so that the sleeping surface can quickly be extended without the use of any tools. This is possible in two stages, with each one being extended by 10 cm.

For an extension of 20 cm, an optional mattress insert is optionally available.



The quick release of the bed extension on the IMPULSE KL Edition 300 is particularly user-friendly.



# Possible configurations



## IMPULSE KL with undercarriage Edition 300

### Hospital bed with universal properties

The versatile IMPULSE KL Edition 300 hospital bed can be used in almost any areas in clinics and hospitals. With an optionally available fifth castor, the universal bed offers perfect manoeuvrability for frequent patient transports. In this configuration, the bed extension is equipped with a comfort release mechanism (see P. 9).

- Height adjustment 36 - 86 cm
- Mobilising side rail system
- Warm dark grey (0755FH) finish

#### Features of the IMPULSE KL Edition 300

- ABS hygiene plastic sleeping surface (four-part)
- Tool-free removable head/foot boards
- 3-stage brake system with fixed direction
- CPR function electrical and manual
- Integrated bed extension up to 20 cm
- Mobilising side rail system
- ISO standard rails on both sides in the side rails and below the sleeping surface
- Good manoeuvrability with 150 mm twin castors

#### Possible options:

- Fifth castor for improved manoeuvrability
- Radiolucent back rest
- Brake alarm
- Special widths (80 cm/ 100 cm)
- Free choice of finish

# IMPULSE KL

## with undercarriage Edition XL

### Bariatric hospital bed

The IMPULSE KL with undercarriage Edition XL is designed to meet high requirements. Its robust, 100cm wide Metal Grid Lying Surface and special bariatric drives are designed for daily use with patients weighing up to 235 kg. 150 mm twin castors with a central brake ensure the bed can be moved safely. The swivelling aluminium side rails can withstand high loads and are equally suitable for use as stable mobility aids.



- Height adjustment 36 - 86 cm
- Safe working load up to 300 kg
- Split folding side rails
- Warm dark grey (0755FH) finish



#### Features of the IMPULSE KL Edition XL

- Stable Metal Grid Lying Surface (4-part)
- Tool-free removable head/foot boards
- 3-stage brake system with fixed direction
- CPR function electrical and manual
- Integrated bed extension up to 20 cm
- Split folding side rails (GS)
- Easy manoeuvrability thanks to 150 mm twin castors

#### Possible options:

- Fifth castor for improved manoeuvrability
- Radiolucent back rest
- Brake alarm
- Free choice of finish



## Control functions

Intuitive patient hand controller & staff controller



### Safety

Safe handling and intuitive ease of use during the care process are prerequisites if a medical product is to be accepted. The IMPULSE KL has a modern operating concept with a patient handset and staff controller. This means that individual buttons can be selectively locked and authorised care staff can be given access to emergency functions. For easy and safe application and long-term relief in everyday care.



### Emergency care

React quickly in an emergency at all times thanks to the shock position and CPR functions on the staff controller. Additionally, all hospital beds have a mechanical CPR release in the back rest and removable head/foot boards to ensure fast access.



### Flexibility

The staff controller can be stored both in the head/foot boards and in the linen holder, while an automatic locking function prevents it from being operated accidentally. In addition to the controller, up to two patient handsets can be connected to the bed. These are available in a horizontal and vertical version.



# Features and options

IMPULSE KL	Edition 300	Edition XL
Low position/access height	36 cm	36 cm
Care and examination position	86 cm	86 cm
Fall prevention	•	•
Automatic chair position	•	•
Trendelenburg positioning (lockable)	•	•
CPR emergency lowering	•	•
Back rest mattress compensation	•	•
Bed extension 10 cm/20 cm	•	•
Linen holder	•	•
Twin castors	150 mm	150 mm
Single castors	◦	◦
Fifth castor	◦	◦
Central brake	•	•
Single castor brake	-	-
Brake alarm	◦	◦
EVGS side rails with one-handed operation)	•	-
Split folding side rails (GS)	◦	•
Folding side rails	-	-
Drive system with safety extra-low voltage	•	•
Hand controller with locking function	•	•
Additional hand controller	◦	◦
Mattress holder	•	•
ABS sleeping surface	•	-
Metal Grid Lying Surface	◦	•
Metal slat reclining surface	◦	◦
Radiolucent back rest	◦	◦
ISO standard universal hook	◦	◦
Head/foot boards that can be removed without tools	•	•
Under bed lighting	◦	◦

• Standard      ◦ Optional

## Specifications

Dimensions and weight	Edition 300	Edition XL
Sleeping surface	200×90 cm	200×100 cm
Outer dimensions	216×106 cm	216×116 cm
Safe working load	Max. 250 kg	Max. 300 kg
Under bed clearance	17 cm	17 cm
Total weight	Approx. 120 kg	Approx. 160 kg

# 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.

i Overview of equipment & options: Seite 17  
Head/foot board selection: Seite 18

### 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





Restraint bar on the sleeping surface

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



The IMPULSE KL-M hospital bed in the Edition 300-P is equipped with the Trendelenburg position for emergency care.



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



Integrated bed linen holder



Firmly welded metal mesh sleeping surface with restraint bars



150 mm double castors with central brake and directional locking

## 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 customer requirements.

❗ Overview of equipment & options: Seite 17  
Head/foot board selection: Seite 18



4-part sleeping surface with selective adjustment of backrest, thigh and lower leg support



Firmly welded metal mesh sleeping surface with restraint bars



150mm 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	125 mm single castors
Central brake	•	•
Swivel-mounted, split side rail (GS)	○	○
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 screwed in	•	•
Restraint bar on the sleeping surface	•	•
ISO standard rail with restraint grid on both sides	•	•
Removable height pedal with safeguard	○	○

• Standard      ○ 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	90×200 cm	90×200 cm
Outer dimensions	107×218 cm	107×218 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

for hospital beds



V1000 (powder-coated)

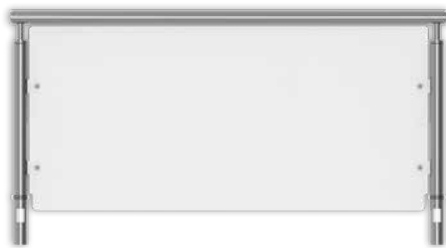
- Round tube handrail, removable head/foot boards
- High version with opening at the top
- Optional stainless steel version



V2000 (powder-coated)

- Round steel bracket, removable head/foot boards
- High version with opening at the top

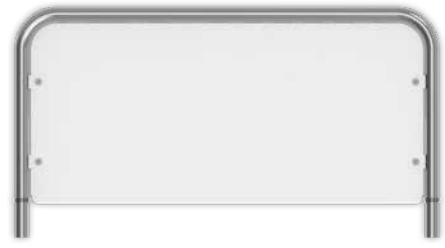
for psychiatric hospital beds



V1120 (chrome-plated, removable)

V1121 (chrome-plated, screwed)

- Round tube handrail
- High design without circumferential gap



V2110 (chrome-plated, removable)

V2111 (chrome-plated, screwed)

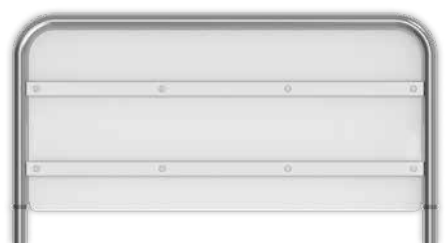
- Round tube handrail with rounded corners
- High design without circumferential gap
- No recesses in the filler panel



V1140 (chrome-plated, removable)

V1141 (chrome-plated, screwed)

- Round tube handrail
- High design without circumferential gap
- External reinforcement with steel rail



V2140 (chrome-plated, removable)

V2141 (chrome-plated, screwed)

- Round tube handrail with rounded corners
- High design without circumferential gap
- External reinforcement with steel rail

# Wood veneers and finishes



Plain Maple

0102 FH



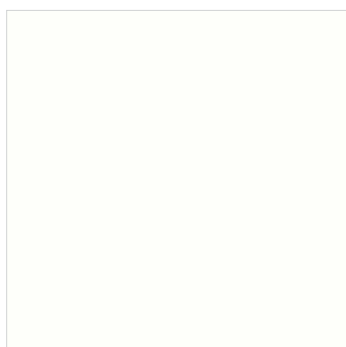
Cognac Oak

0048 FH



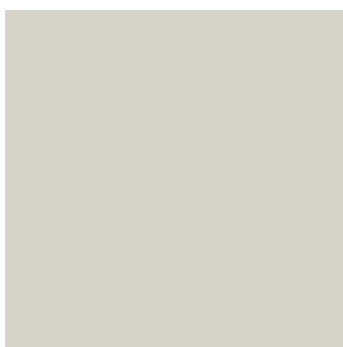
Tosca

0269 FH



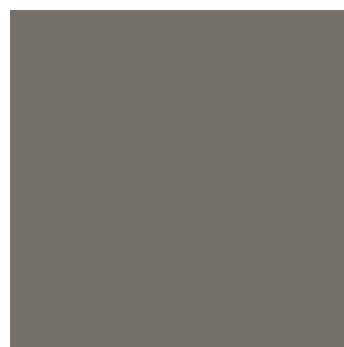
White

0085 FH



Birch Grey

0741 FH



Warm Grey Dark

0755 FH



Charcoal

0077 FH



Glacier Blue

0706 FH



Lamar

0023 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](http://bettenmalsch.com)

# Extract from the accessories range



Lifting pole



IV-pole  
Straight plastic/stainless steel  
Bent plastic/stainless steel



Bedside cabinet WK III-M with minibar



Bedside cabinet WK III



Bedside cabinet WK I



Server WXL



O<sub>2</sub>-horizontal bottle holder



O<sub>2</sub>-vertical bottle holder



Urine bottle basket  
for DIN standard rail



Universal hooks

Our extensive range of furniture and accessories can be found in separate catalogues. The PDF files are available for download at <https://bettenmalsch.com/en/service/download-centre.html>





## This image shows a single page of lined notebook paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width. The paper is otherwise completely blank, with no margins, text, or other markings.

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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