

CLINIC DESIGN



IMPULSE KL SERIES

CLINICAL BEDS



Health
made in Germany





QUALITY & SAFETY

Clinical beds for the most demanding situations – the Impulse KL series combines comfortable design with functionality and delivers the highest level of flexibility and safety.

Our clinical beds are thoroughly convincing with their outstanding workmanship. The mix of high quality materials using aluminium and high pressure laminate boards guarantees a long working life, and ensures easy cleaning and extreme stability. This is reflected in the safe working load of 250 kg for the standard bed and even 300 kg for the heavy duty clinical bed.



Health
made in Germany

MALSCH CLINICAL BEDS

The Impulse KL Series offers appropriate solutions for clinic and hospital equipment. With their innovative low voltage power concept, our clinical beds offer increased safety for patients and nursing staff. The integrated collision protection guarantees adequate floor clearance when inclining the bed, even when bed extension is activated.

The safety operating units are perfectly aligned with each other, and facilitate the targeted restriction of the patient hand control. The full range of functions is also available in battery mode.

Immediate reaction functionality in an emergency is provided by the bed front, which can be removed without tools, together with the CPR function.

The use of high quality materials guarantees outstanding stability with unladen weight. Enclosed, homogeneous surfaces also aid fast, thorough cleaning or disinfection.

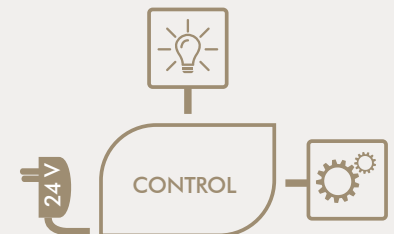
Our cabling concept accommodates only one more plug socket on the bed. Other components can be added at any time.

INNOVATIVE MOTOR CONCEPT

- › Low voltage system for increased safety for patients and nursing staff
- › Battery operation as standard
- › fast, quiet adjustment via electric motor
- › Collision protection when tilting the bed from low mounting position
- › central blocking or selective blocking of individual functions on the patient hand control via the nursing staffs device.
- › simple cable concept to avoid a confusing mass of cables

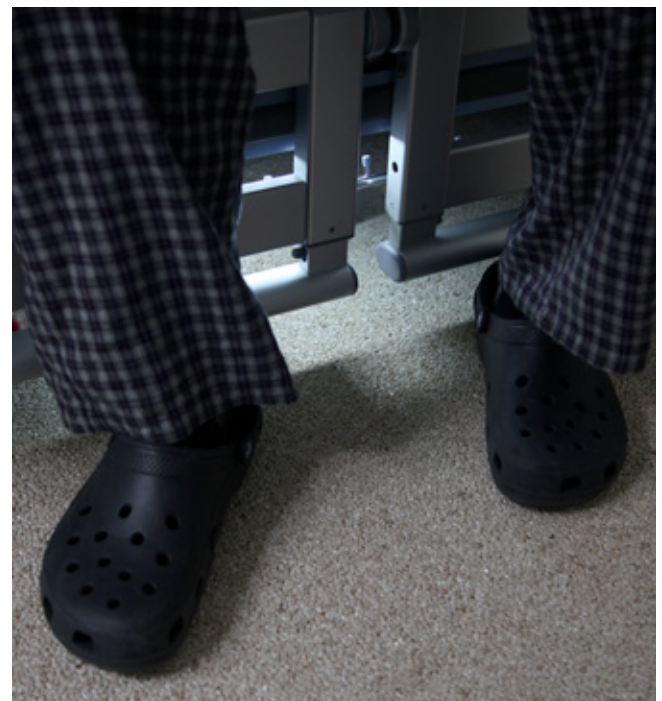
Optionally:

- › LED under bed lighting with dimming sensor without additional power supply (also available on both sides)



IMPULSE KL SERIES

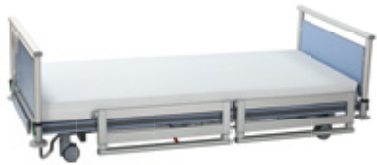
- › innovative motor concept
- › bed fronts can be removed without use of any tools
- › ABS hygiene plastic lying surface
- › easy cleaning and disinfection
- › easy manoeuvrability with 150 mm double casters and weight-saving aluminium components
- › 3 stage braking system with straight running
- › CPR function, electric and manual
- › integrated bed extender
- › mobilising side rail system
- › Feeding rail on both sides
- › comfortable design, high quality materials



4-STEP POSITIONING CONCEPT

1

Low position*



The Impulse 400 KL is ideal for preventing falls with a height of 30 cm in the low position. The starting position of 39 cm on the Impulse 300 KL provides a comfortable access height and facilitates patient mobilisation.

Care position

2



A comfortable and ergonomic work position is achieved for the care personnel through adjustment of the care position. In the care process, our side safety system with half-erected side rail elements offers additional protection for the resident with good accessibility for the care personnel.

3

Comfort sitting position



This position moves the patient to a comfortable, up-right sitting position, ideal for watching television, treatment or communication. The spatial orientation is improved and the breathing and circulation are positively influenced. The intelligent adjustment procedure with backrest retraction prevents contact of the patient with the headrest and at the same time has a pressure reducing effect in the seat area.

Shock position

4



The shock position aids emergency compensation for a lack of volume and can be applied quickly via an automatic program on the nursing staff operating unit.

+

* only with Impulse 400 KL

LYING COMFORT

- 4-zone mattress base with mattress compensation in accordance with the DbfK recommendation
- ergonomic mattress base zoning
- preventative measures against ulcer formation
- Auto contour adjustment of the back rest and leg element for pleasant raising of the patient.
- Comfort seat automatic for comfortable propping in a seated position
- three mattress base variations for every requirement

MATTRESS BASE VARIATIONS



Metal rail



Comfort



ABS

HAND CONTROL & OPERATING UNIT



SAFETY

- › automatic shut down of the operating unit in standby mode after a few seconds
- › individual locking of separate functions
- › single fault protection via central shut down of all functions of the hand control by means of the operating unit
- › LED display for checking battery capacity
- › LED button illumination on the hand control



COMFORT

- › Comfort seat automatic
- › simple to operate using directly assigned buttons
- › time-saving through simultaneous adjustment of several functions
- › easy to reach, flexibly positionable operating unit for easy handling



MOBILISATION

- › individual mattress base adjustment in combination with the bed swivel function
- › automatic CPR system
- › automatic shock system

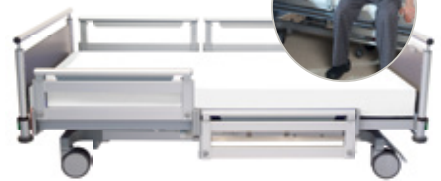
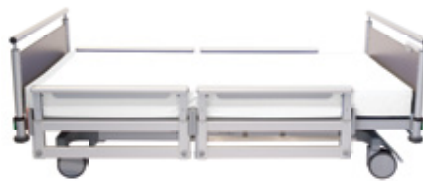
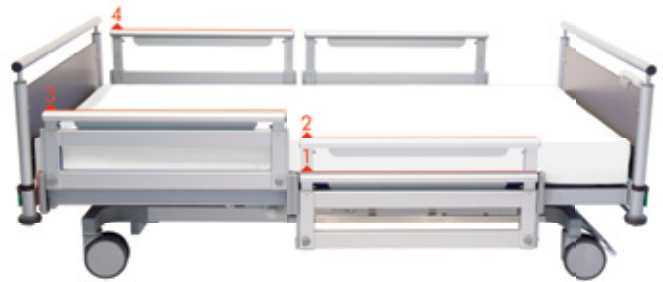
Optionally:

- › Foot pedal for height adjustment
- › additional patient hand control

MOBILISING SIDE RAIL SYSTEM

VERTICAL SIDE RAILS

- › 4 height positions for maximum flexibility
- › No space required at side; optimally suited for use in small rooms
- › Mobility-promoting side rail position
- › Robust aluminium design for max. stability
- › Flexible retrofit



RUHEPOSITION

- › Comfortable to sit on edge of the bed
- › No space required at side
- › Accessories can be hung on the side rail elements
- › Optional: ISO standard rails integrated into the side rail elements

ELEVATED EDGE

- › Alternative to surrounding rail, ensuring independence is maintained
- › **Sensory feedback** prevents unconscious rolling out
- › Assists care staff in repositioning
- › Possible to get out of the bed

TRANSFER POSITION

- › **Optimum mounting and dismounting at seating height** possible thanks to the transfer button*
- › Mobility assistance provided by side rail padding at head of bed

* Transfer button only with Impulse 400 KL



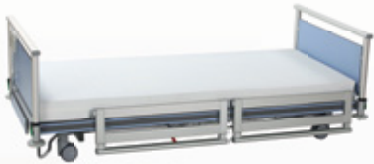
INTEGRATED BED EXTENSION

The integrated bed extension offers the highest level of flexibility by extension of the mattress base by 10 cm without - and 20 cm with a mattress insert. In this way, there is no danger of collision when extended.

Activation is possible without tools. The high quality bush bearing guarantees the highest degree of stability when extended.

IMPULSE KL SERIES

LOW POSITIONING



IMPULSE 400 KL

- › **Fall prevention**
- › very good range of possibilities for adjustment – maximum care height of **83 cm ***
- › Low-level bed – **30 cm ***
- › Comfort sitting position
- › movable in any positioning height
- › easy manoeuvrability
- › 360° moveable casters
- › 150 mm double casters
- › robust bed chassis
- › 4-wheel central brake with straight run function, completely integrated into the chassis
- › Soft lock braking mechanism for gentle braking

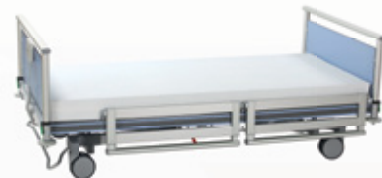
ACUTE CARE



IMPULSE 300 KL

- › very good range of possibilities for adjustment – maximum care height of **86 cm ***
- › Comfort mounting height of **36 cm ***
- › Comfort sitting position
- › ideal rolling properties for frequent patient transport
- › movable in any positioning height
- › Easy manoeuvrability
- › 360° moveable casters
- › 150 mm double casters, electrostatically conductive
- › robust bed chassis
- › 4-wheel central brake with straight run function, completely integrated into the chassis
- › Soft lock braking mechanism for gentle braking

HEAVY LOAD



IMPULSE XL KL

- › **Bariatric bed**
- › very good range of possibilities for adjustment – maximum care height of **86 cm ***
- › Comfort mounting height of **36 cm**
- › 100 cm x 200 cm mattress base
- › Comfort sitting position
- › easy manoeuvrability
- › 360° moveable casters
- › **300 kg** safe working load
- › 5-motor drive set
- › 4-wheel central brake with straight run function, completely integrated into the chassis
- › Soft lock braking mechanism for gentle braking





* measured at the top of the mattress base

EXTENSIVE FURNITURE AND ACCESSORY RANGE

Our staff is happy to help you over the phone with any enquiries regarding our furniture and accessories range.

Alternatively, you can find further information and the opportunity to request a catalogue online on our website at bettenmalsch.com



	Impulse		400 KL		300 KL		XL KL	
Chassis								
4-wheel central brake with straight run function			•		•		•	
100 mm double caster			◦		◦		x	
125 mm caster			◦		◦		◦	
150 mm double caster			•		•		•	
Comfort characteristics								
Comfort seat			•		•		•	
Auto-contour			•		•		•	
Mobilisation								
Automatic CPR system			•		•		•	
Anti-Trendelenburg positioning			•		•		•	
Trendelenburg positioning (shock position)			•		•		•	
Removable bed fronts with fast locking system			•		•		•	
Side rail								
Mattress holder without side rail			◦		◦		◦	
Mobilising side rail system			•		•		•	
Safety								
Low-level bed – Fall prevention			•		x		x	
Extension possibilities								
Integrated bed extension			•		•		•	
Bedding storage (only in conjunction with integr. bed extension)			◦		◦		◦	
Mattress base	90 cm	80 cm	90 cm	80 cm	90 cm	80 cm	100 cm	120 cm
Metal rail	◦	◦	◦	◦	•	◦	•	◦
Comfort	◦	◦	◦	◦	x	x	x	x
ABS	•	◦	•	◦	x	x	x	x
Technical data								
Working position	83 cm		86 cm		86 cm		86 cm	
Low position	30 cm		36 cm		36 cm		36 cm	
Safe working load	250 kg		250 kg		300 kg		300 kg	
External dimensions	106 x 220 cm		106 x 220 cm		116 x 206 cm		116 x 206 cm	
Mattress base	90 x 200 cm		90 x 200 cm		100 x 200 cm		100 x 200 cm	
Adjustment functions								

• as standard ◦ optional x not available



SAFETY IN THE IMPULSE SERIES

EC Medical Device Directive
93/42 EEC

Adjustable care beds
DIN EN 1970 / DIN EN 60601-2-52:2010

Medical electrical equipment
DIN EN 60601-1

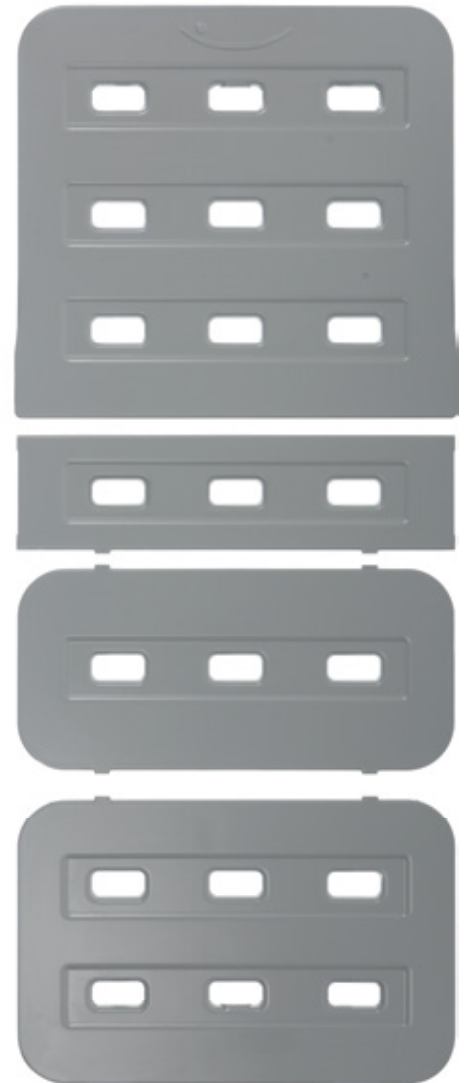
Electromagnetic compatibility
DIN EN 60601-1-2

CLEANING & DISINFECTING

Enclosed, homogeneous surfaces on Malsch clinical beds from the basis for time-saving disinfection by wiping down. Specially designed ABS plastic shaped elements of the lying surface ensure good ventilation of the mattress and can be removed without any tools for hygienic, thorough cleaning and disinfection.

The anodised aluminium side rails and the high quality bed fronts made from high pressure laminate boards aid the treatment process. The surfaces are easy to disinfect and even offer long-term resistance to acidic detergents. By reducing the use of small or delicate parts, all elements are easy to reach.

The chassis and braking system are completely covered and disinfected in just a few easy steps.



CLEANING

- ABS plastic mattress base can be removed without tools for preparation
- high quality mix of materials with aluminium and laminate boards, easy to wipe down and not sensitive to disinfectants or detergents.
- Covering of the braking system and chassis

DECOR*

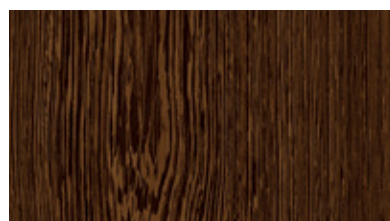
WOOD DECOR



White acorn



Cherry



Wenge

UNI DECOR



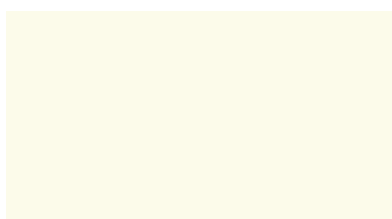
Sand



Cappuccino



Warm grey



White



Arctis



Steel blue

*optional choice of decor

DECOR VARIANTS

We can offer a range of finishes with our beds, thus offering complete flexibility when matching our clinical beds to the existing equipment in the patient's room.

Please give us a call!

We would be delighted to give you personal advice regarding suitable decorative options or send you some designs.



