

■ ■ wissner-
■ ■ bosserhoff

Functional elegance in nursing care



sentida 7-i

The intelligent nursing home bed





Foto: René Schwerdtel, Modell: Olga Angelica Klug Mejia Wuda de Leal (*1920)

sentida 7-i

The intelligent nursing home bed

With sentida 7-i, wissner-bosserhoff does not only continue the success story of universal and low nursing beds, it also sets new standards in electronics and intelligent sensors, which previously had only been available for hospital beds. At the same time, the nursing home bed maintains the cozy design that distinguishes all wissner-bosserhoff products.



5

hours/day

for residents needing care level 3. At least 4 hours of this time are spent on daily basic care.

6

hours/day

of nursing are required in cases of hardship. Nursing care needs to be provided at least three times per night

Source: German Federal Ministry for Health

Relief

thanks to the

special nursing home

bed sentida 7-i

thanks to multiple functionality

in the fields of:

- Intensive care
- Care for residents affected by dementia
- Palliative care
- Post-acute care and rehabilitation
- Geriatric psychiatry
- Preventive care

Living concept

sentida 7-i | Design G10



The selection of materials and colors follows current, natural living trends. This way, a cozy, warm atmosphere, in which the resident feels safe and protected, is created.

Intelligent nursing care

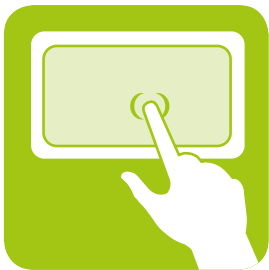
sentida 7-i solutions – tailored to your individual needs

Even the standard version of the sentida 7-i comes with comprehensive functionalities. Moreover, our optional feature packages make it possible to adjust the bed to your needs.



Standard

Weighing system & bed exit



Weight monitoring

- Integrated weighing system
- Automatic weight measurement at the push of a button
- Weekly and monthly overview
- BMI check

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Bed-exit assistant

- Early-warning mode before the resident gets out of the bed
- Day and night mode
- Individual nurse call delay for going to the restroom
- Freely adjustable nurse call timing

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Options

Free & safe kit

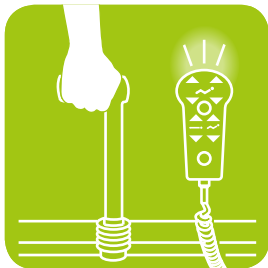


Safety sensor system

- Side guard assistant
 - Free mode to avoid restraints
 - Safe mode for protection with moderate restraints
- Bed height assistant
- Braking assistant

Page 14

Mobilization kit



Self-mobilization

- Light:
 - Plug & play handset
- Full:
 - Plug & play handset and Mobi-Lift®

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Humidity kit



Moisture assistant

- Ready to connect a moisture-sensing mat
- Accessories:
 - Cotton mat
 - Plastic mat

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sentida 7-i at a glance



CareBoard®

- Comfortable 7" LCD touchscreen
- Direct selection of safety-relevant buttons
- Energy saving mode



Mobi-Lift® for self-mobilization**

- Mobilization aid
- Integrated height adjustment
- Minimum of physical strain



Comfort resident handset**

Improved and extended functionality

- Illuminated display
- Integrated LED light
- GO safety button
- Separate legrest



Free & Save FDM* sensor system**

- Free mode: Avoiding restraints
- Safe mode: Protection with approved restraints



Bed height & braking assistant**



Bed exit early warning system

- Weight sensor system detects if the resident wants to exit the bed early on
- Nurse call BEFORE resident exits the bed
- Efficiently prevents falls and allows for fast response
- Integrated light sensor illuminates the floor



Automatic night light

- Active support of independent mobilization
- Helps residents find their way at night
- Connected to the bed exit system



Integrated calibrated scale

- Resident's weight is measured in bed – no repositioning needed; data and weight development over weeks/months stored in the CareBoard®
- Helps with medication and documentation



Moisture assistant**

- Sensor mat in the center of the bed detects moisture
- Nurse call to prevent maceration
- For residents with non-severe urgency to improve their continence



Undercarriage



COZY

50 mm double castors (covered)
One pedal brake for each axle
Height adjustment range 27 – 80 cm



extra mobile

125 mm design castors (optional)
Foot-end brake bar
Height adjustment range 27 – 80 cm*

Nursing at your fingertips

The CareBoard®

The comprehensive functionality of sentida 7-i can be easily operated using the CareBoard®. The 7" LCD touchscreen enables the nursing staff to organize the various functions in clear menus in order to facilitate everyday nursing care for the user.

- Clearly structured LCD touchscreen for easy and intuitive operation; without complicated menus and descriptions
- Energy saving mode: automatic switch-off after 3 minutes
- LED to monitor battery/power connection
- Allows all or individual functions to be locked



Video
CareBoard®



Two positions to choose from



Wall mounting, head-end cable connection



Holder at the foot section, foot-end cable connection

Intensive and critical care

Acute care package

In addition to the medical benefits, safety and compliance with the IEC 60601-2-52 standard are the first priority. The sentida 7-i nursing home bed offers preset emergency and therapy positions, which can also be initiated if the LCD touchscreen is down. The emergency stop button immediately stops any unwanted bed movements and instantly disconnects the bed from the power supply. Electrical CPR can be performed and the patient moved into the Trendelenburg position automatically at the touch of a button. The bed comes equipped with a battery as standard. All emergency functions can be activated in the event of a power cut. Thanks to the mechanical CPR function, the nurse can lower the back-rest by hand.



GO safety
button



Emergency stop
button



Automatic
Trendelenburg
position
button



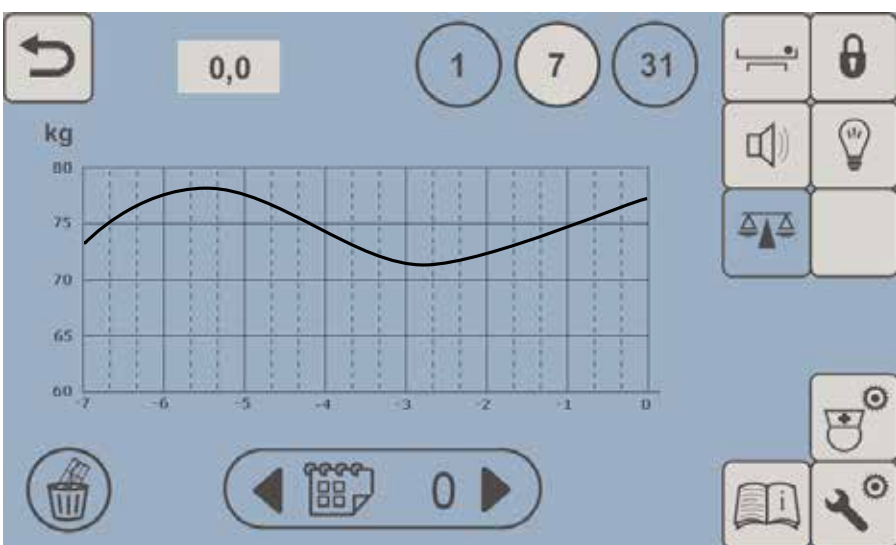
Electric CPR
button



Quick weighing & easy documentation

Weight monitoring with touchscreen

The integrated weighing system supports the nursing staff during documentation, without the complicated use of a lifter. In addition to this, the weight chart, which is saved hourly and can be displayed in intervals of days, weeks and months, can improve medical care and also helps to draw conclusions concerning the dosage of medication or the assessment of lymphatic fluid accumulation in the legs.



Weighing with accessories is exhausting and time- and cost-intensive

- It puts stress on the resident
- The residents need to be repositioned more often
- Permanent monitoring is not possible

Advantages of the integrated weighing system

- Determination of absolute and relative body weight directly in bed
- Storage of weight data and graphical representation in an analysis tool
- Freezing the weight measurement in case of changes in weight by external causes (e.g. accessories)
- Easy zeroing of absolute weight and weight changes
- BMI control



Video on weight monitoring

Safety & freedom

SafeSense® – the intelligent bed exit sensor system

wissner-bosserhoff is a reliable partner for reducing restraints. With sentida 7-i, wissner-bosserhoff presents an intelligent nursing home bed with an intelligent sensor system, which reliably helps to reduce restraints day and night. It is equipped with an automatic night light, which is activated when the resident leaves the bed and is deactivated when the resident is back in bed again. sentida 7-i is compatible with standard nurse call systems.



Video on the bed exit sensor system



Automatic night light

- Night light is automatically switched on when the resident leaves the bed
- Night light is switched off again as soon as the resident is back in bed



Individual alarm system

- Freely adjustable from 0 seconds (immediate alarm) to 30 minutes
- Adaptation to resident's mobility
- Early-warning mode for hyperactive residents. The nursing staff is called as soon as the resident seems to fall out of bed



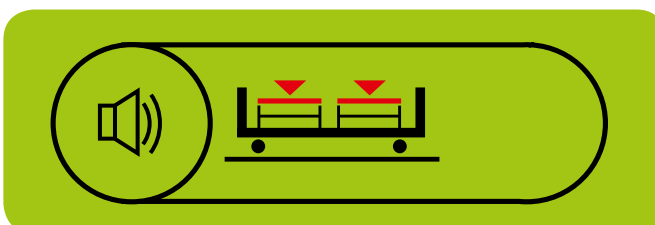
More safety = less restraints

- Faster response time in the event of falls
- Greater safety during night and weekend shifts
- Systematic implementation of the findings of the initiative for the reduction of restraints, the „Werdenfeller Weg“ (Werdenfels care pathway)

For the benefit of your residents

Safety sensor

Three sensor assistants ensure a higher level of safety around the nursing home bed. A signal is sent by the integrated sensor system as soon as an activated assistant reports an unsafe situation involving the bed. This prevents accidents caused by falls.



The side guard assistant with the two modes Free & Safe.

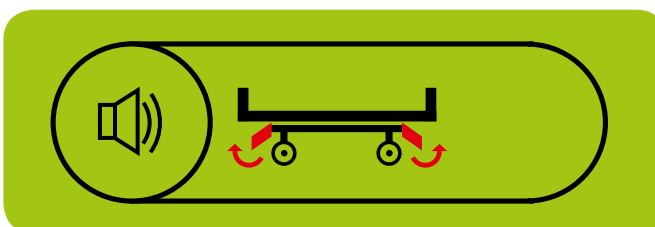
Free mode: The new side guard assistant automatically emits a signal if side guards were accidentally lifted. This prevents unauthorized restraints, effectively supporting the work of guardians ad litem in compliance with the „Werdenfelser Weg“.



Safe mode: In the safe mode, the side guard assistant increases the safety of very active residents, securing them with an authorized restraint. The nursing staff is also automatically notified if the side guard of the bed is deactivated on purpose or by accident.

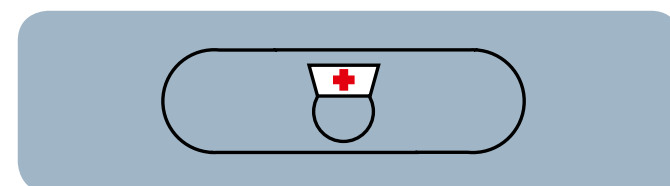
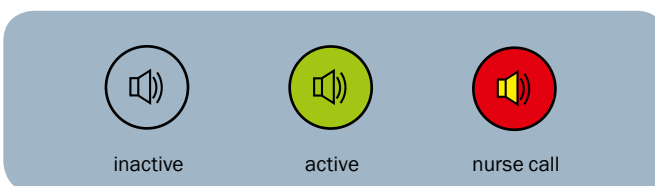


The bed height assistant notifies nursing staff if the selected bed height is changed. This, for example, makes it possible that the low position is set for the night and the best transfer position is set for the day, contributing significantly to preventing falls.



The braking assistant signalizes if the brake is released and not locked again after nursing care or cleaning.

Monitoring states



Care mode allows all light alarms to be deactivated. This avoids the unintended activation of light alarms during daily routine nursing tasks. After 10 minutes it automatically switches back on.

Self mobilization

Thanks to Mobi-Lift®



- Mobi-Lift®:
- Can be folded down
 - Ergonomical
 - Stable

Immobility syndrome

The mobility of persons confined to bed is limited. If this restricted mobility is not countered, patients develop immobility syndrome.

RISKS:

- Risk of thrombosis
- Risk of pressure ulcers
- Confusion
- Change in respiratory function
- Risk of constipation

(Source: Pflegeassistent: Lehrbuch für Gesundheits- und Krankenpflegehilfe und Altenpflege, Thieme Verlag); (Nursing assistance: a textbook for health, nursing and geriatric care, published by Thieme)



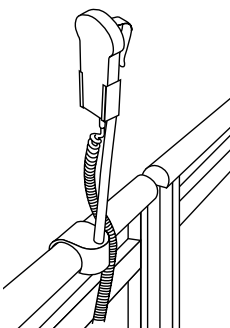
Self-mobilization thanks to Mobi-Lift®

- When getting up, residents can pull out and use the mobilization aid integrated into the bed side by themselves
- Special feature: Mobi-Lift® is equipped with an integrated function key for height adjustment of the bed
- The nursing staff is relieved of strain concerning both autonomous and supported mobilization

Increased residential comfort and safety

Illuminated handset

Thanks to its clear structure and ergonomic design, the handset impresses at first glance. At night, the illuminated control panel and integrated LED light are useful for orientation and safe mobilization. The GO safety button optimally follows the principle of zero fault tolerance. It is impossible to trigger a function by accidentally pressing a button.



The handset is easy to reach for both the resident and staff at all times (accessory handset holder, model No. 10-0419 and 10-0421).



- Illuminated control panel
- LED light
- LED locking of thigh rest/backrest
- Adjust thigh rest/backrest
- GO safety button
- Adjust height/auto contour
- LED locking of height adjustment
- Switch the LED light on and off



Extended functions

- Easy and clear operation
- Better orientation during the night through the illuminated control panel
- Integrated LED light
- Separate legrest adjustment
- Plug & Play offers fast connection possibilities on both sides

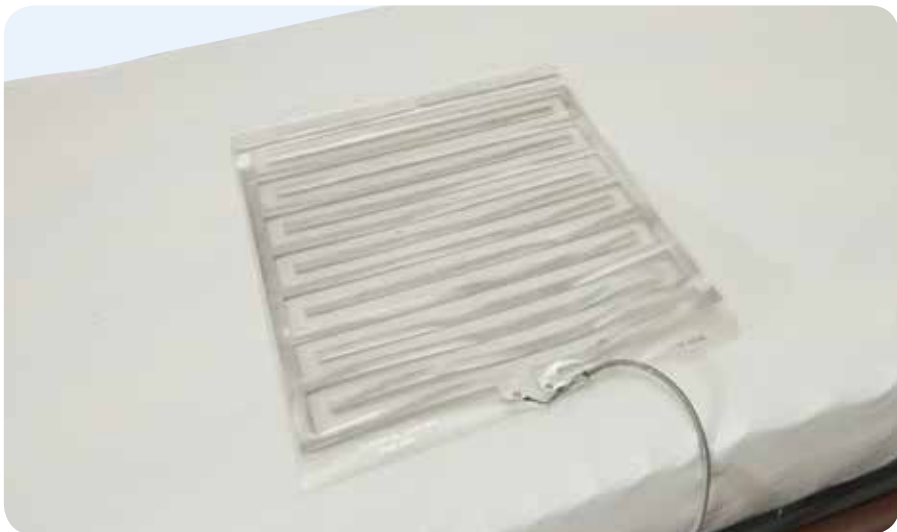
Sensor mat with nurse call function

Moisture assistant

If moisture is detected in the bed, an alarm is transmitted to the nurse call system in the building. The moisture assistant immediately detects moisture in the bed and thus increases protection of the resident. A cotton humidity sensor mat, washable at 60° C (01), and a wipeable plastic moisture sensor mat (02) are available.



01



02



Incontinence protection

A moisture sensor sheet/pad made of washable cotton or plastic detects humidity in the bed and protects the resident from maceration (especially in the case of incontinence). It provides an alternative to diapers and helps residents with light incontinence to improve their continence.

Causes of urinary incontinence

- 1. Disorder of the bladder muscles**
In some cases the bladder muscles contract spontaneously (e.g. for psychological reasons). This forces urine out of the urethra.
- 2. Disorder of the urethral sphincter**
The signal that says "Please contract" is transmitted, however, this cannot be performed as the sphincter muscle is no longer strong enough. This is the most common cause for incontinence.
- 3. Disorder of the nervous system**
Signals coming from the brain are interrupted. The signal that the bladder is full is not consciously registered. The resident has no urge to urinate and the bladder overflows.

Source: Prof. Dr. Seelbach-Göbel;
<http://www.br.de/radio/bayern2/sendungen/gesundheitsgesprache/inkontinenz-harnverlust-urin102.html>
from 05/02/2014

Protection and mobility without restraints*

SafeFree® the patented side guard concept

The SafeFree® divided side guard system is patented and voluntarily certified. The technology has been tested in practice more than 500,000 times. You can lower the space-saving side guards quickly in only 2 seconds and individually adjust them to four heights, depending on the care situation and size of the resident.

1 No protection needed



In lowered position, the divided side guards enable unhindered access to the resident for daily nursing tasks, changing wound dressings or bed sheets and linen. No need to take off and store interfering accessories like a middle post or fixed side guards.

2 Soft protection (no restraint*)



For safety at night, it is often sufficient to combine the low position of the bed with the first height level of the head-end side guard. This “soft protection” avoids unnecessary barriers and reduces the risk of falls sustainably. The side guards provide the resident with orientation without restriction.

3 ¾ protection (no restraint*)



The 3/4 protection creates a deliberate bed egress gap at the foot end for the reduction of restraints, while at the same time maintaining a high safety standard. By adjusting the bed and side guard height, sentida can be adapted to residents of every size and height.

4 Full protection for mattress heights to 18 cm



The third height level is used to comprehensively secure the resident in bed. In the top position, the two parts of the side guard close together so tightly that they are just as safe as a continuous side guard. Stocking up on accessories for closing a central gap when using an abdominal belt for restraint is not necessary.



If you use a thicker mattress, you can raise the side guards by an additional 6 cm.

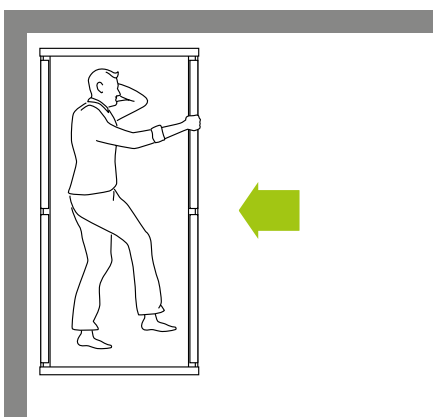
Safe mobilization

The divided side guard can effectively aid mobilization, because it is easy to grip and hold. It serves as a safe standing-up aid and has been shown to improve the resident's mobility.

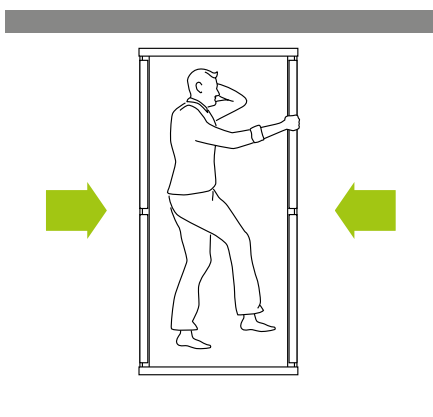


All-round access for nursing tasks with 4 divided side guards

- Flexible use of the bed for standard care, even in limited spaces (fig. 1)
- Flexible access from both sides of the bed in case of increased need for care (fig. 2)
- Flexible use of the bed for bed egress on the left or right side to mobilize the resident
- Avoiding follow-up costs for upgrading divided side guards



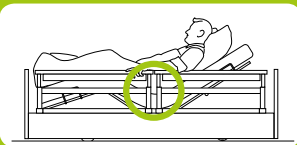
Standard nursing – access from one side is sufficient



Increased need for care – access from both sides needed

More safety
due to smaller central
gap* < 60 mm

- Targeted compliance with the new standard IEC 60601-2-52
- Safety in working position, i.e. also with raised backrest or legrest
- Safety without using an additional central gap protector as accessory for restraint with an abdominal belt in accordance with the BfArM** (German Federal Institute for Drugs and Medical Devices)



tested in practice
500.000 +
times

Video side
guard concept



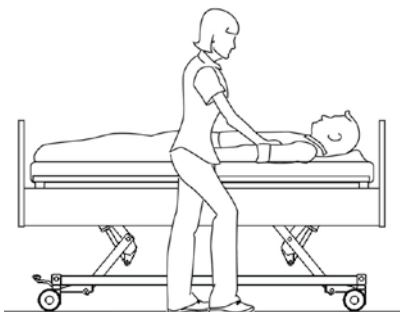
Safe sleep, mobilization and care

3-stop strategy

The **IVS intelligent verticalization system** not only features a great height adjustment range of **27 to 80 cm**, but due to its integrated control sensors also prevents collisions when setting the bed to the comfort seating position. This becomes an indispensable advantage, especially when combined with the bed extension to 220 cm.

80 cm

Optimal nursing position



41 cm

Safe mobilization at chair height



27 cm

Fall prevention during sleeping phases



IVS – intelligent verticalization system

- Comfortable adjustment range from 27 to 80 cm
- First automatic stop at 41 cm at chair height for bed egress
- Collision protection when adjusting the bed from the low position and when using a bed extension

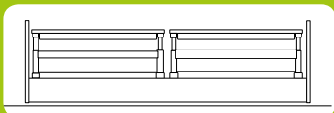
Flexible and time-saving

3 bed lengths that can be adjusted without tools

All standard wissner-bosserhoff nursing home beds are equipped with an integrated bed extension. With the express bed extension (see image below/option), sentida - with divided side guards - can be adjusted flexibly and without tools to different bed lengths. The requirements of the new standard IEC 60601-2-52 are complied with in each configuration.

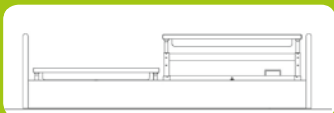
200 cm

Bed length of 200 cm:
The divided side guards offer protection without a central gap > 318 mm* and without a protector



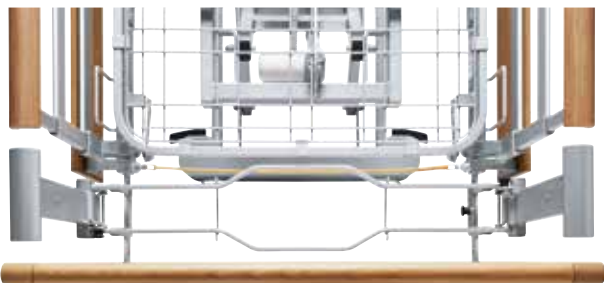
210 cm

Alternative bed length of 210 cm:
Protection with longer side guards at the foot end without accessories and without a gap > 318 mm**



220 cm

Bed extension to 220 cm:
is temporarily adjustable with divided side guards for sentida - complete protection through foot-end protector (accessory) is guaranteed



Bed extension with express release (option)

Effective pressure ulcer prevention

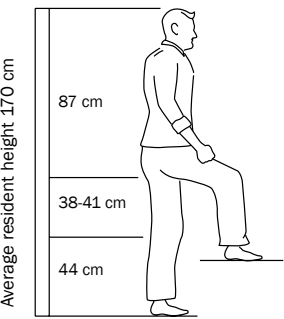
Double retraction | 3 patient surfaces to choose from

Patient surface ergonomics

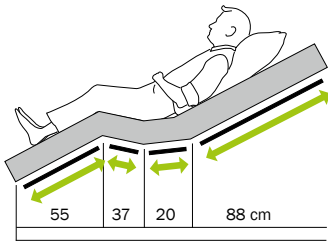
The ergonomic division of the patient surface helps prevent pressure and therefore contributes to pressure ulcer reduction. The dimensions of the 4-part patient surface of wissner-bosserhoff nursing home beds are based on findings from anthropometrics, i.e. on the average size and height of a person. On the basis of pro-

fessor Eigler's findings, it can be seen that the backrest area should be at least 80 cm long in order to effectively support the cervical spine. An additional reduction of pressure can be reached with the BiNetic patient surface for patients with above-average height due to its integrated bed extension. The patient surface

can be extended to 220 cm either temporarily and without tools using the express bed extension, or permanently with the bed extension set, preventing the legs from bumping on the foot end.



Anthropometry according to Prof. Eigler *



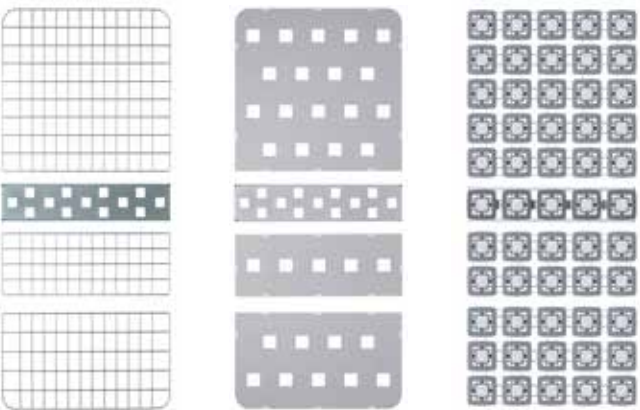
BiNetic patient surface 200 cm (long backrest)

Patient surface modularity

You can choose between 3 different patient surface options:

- 01 The wire mesh patient surface Aero ensures good aeration.
- 02 The synthetic mats of the Easyclean patient surface are especially easy to clean.
- 03 The comfort patient surface with its 55 spring elements not only promotes bedding comfort but also makes a valuable contribution to pressure ulcer prevention.

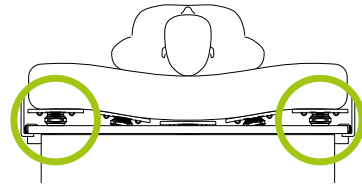
In general, the patient surface partitions can be easily removed and cleaned.



01

02

03



Comfort patient surface with 55 spring elements



Detail comfort patient surface

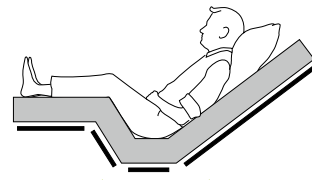
Effectiveness of double retraction confirmed*

For years now, wissner-bosserhoff has been pursuing a practicable concept for reducing the risk of pressure ulcers: The double retraction as a component of the BiNetic patient surface. With the double retraction, not only the backrest but also the leg rest is located further apart from the seat section, so that

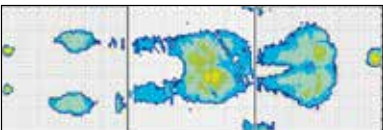
the surface is enlarged. Today, results from pressure measurements (thermal imaging) clearly show that there is less pressure with double retraction than with single retraction and significantly less pressure than with the standard patient surface.



WIBO patient surface with notable relief



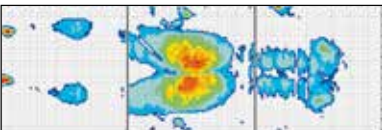
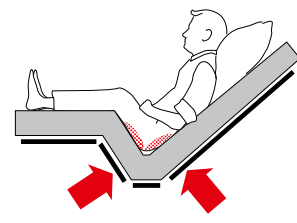
Double retraction = pressure ulcer prevention



Thermal image of a BiNetic patient surface



Standard patient surface without relief



Thermal image of a standard patient surface

Up to
2.7
million people

in Germany have chronic wounds such as pressure ulcers. Not least due to the demographic change, elderly people suffer from chronic wounds particularly often. The risk for people over 90 is at more than 11 %.

Pressure ulcers are very unpleasant and straining for residents. Therapies usually take several weeks or months and may often cause further discomfort.

Source: BVMed 2012 study

Double retraction =
17cm
more space in bed

2 automatic positions

The automatic positions of sentida, adjustable at the push of a button, increase comfort when lying in bed and support pressure ulcer prevention for the benefit of the resident while reducing the strain on nursing staff.

Watching television, reading or eating breakfast in bed with automatic comfort seating

The automatic comfort seating brings the bed into a pre-selected seating position for watching TV and reading comfortably, for eating or communicating at eye level. Mobilization using the lifter is effectively supported in this position. In addition, this position facilitates breathing and digestion. It trains spatial orientation and stimulates circulation for residents confined to bed. The double retraction provides additional relief of pressure in the sacral area.



Pressure ulcer prevention and keeping heels free with automatic positioning

The preset legs up position promotes decongestion with venous diseases and at the same time supports pressure ulcer prevention. The 1/2 Fowler 30° position with knee lifting guarantees a reduced pressure ulcer risk* thanks to a favorable weight distribution in the sacral region, which is especially at risk of developing bedsores.



2 models to choose from

The cozy one



Movability
At every bed height

Castors
Four 50 mm double castors
Completely covered by homely undercarriage



Braking capacity
One pedal brake for each axle
with 2-castor central braking system

Height adjustment
27-80 cm

The extra mobile one



Movability
At every bed height

Castors
100, 125 or 150 mm easy-roll castors or 125 mm double castors or design castors



Braking capacity
Foot-end brake bar
with 4-castor central braking system

Height adjustment
27-80 cm with 100 mm easy-roll castor
29.5-82.5 cm with 125 mm easy-roll castor
28-81 cm with 125 mm double or design castors
32-85 cm with 150 mm easy-roll castor


Living concept

sentida 7-i | Design K10




The selection of materials and colors follows current, natural living trends. This way, a cozy, warm atmosphere, in which the resident feels safe and protected, is created.


Design | head / foot ends




Design A
Head end




Design Ak
Foot end




Design Ak
Folded down




Design D
Head end




Design D
Foot end




Design D
Low foot end (Dx)




Design Df
Head end




Design Df
Foot end




Design Df
Low foot end (Dfx)




Design G
Head end




Design G
Foot end




Design G
Low foot end (Gx)




Design K
Head end




Design K
Foot end




Design K
Low foot end (Kx)




Design T
Head end




Design T
Foot end




Design T
Low foot end (Tx)



Design Ts
Head end



Design Ts
Foot end



Design Ts
Low foot end (Tsx)

Colors | décors*



Volcano White (U11502)



Lund Birch (R35018)



Lindberg Oak (R20021)



Cottage Pine (R55023)



Pine Suomi Grey (R55022)



Pine Suomi Brown (R55021)



Havana Cherry (R42006)



Shirling Oak (R38006)



Beech Natural (R24015)



Beech (R24034)



Cherry (R42002)



3 Color combination memoriana

Our certificates – your safety

wissner-bosserhoff voluntarily has its production processes and management regularly audited by the TÜV. The company is certified in accordance with the regulations of the standard DIN EN ISO 9001:2008 for quality management systems as well as DIN EN ISO 13485:2003+AC:2007 for the manufacture of medical devices.



ISO 9001



ISO 13485



ISO 14001:2004
Environmental
protection certificate



Certificate
for side guards



Calibration
certificate



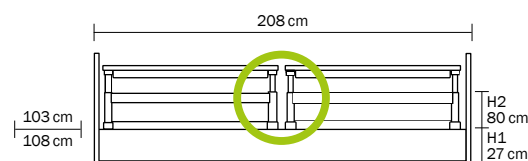
EG-certificate



CE
TÜV SUD
Production complies with:
ISO 9001
ISO 14001
ISO 13485

Furnishings and accessories

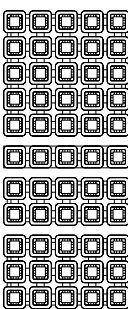
Dimensions



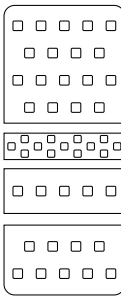
sentida 7-i with divided (10) side guards, without gaps
Outer dimensions: L = 208 cm, W = 103/108 cm
Mattress dimensions: L = 200 cm, W = 87 cm
H1 27 cm (low position), H2 80 cm (highest position)

10-0697
sentida 7-i | The intelligent & cozy one
10-0698
sentida 7-i | The intelligent & extra mobile one

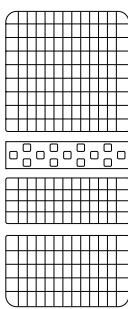
Patient surfaces



Comfort

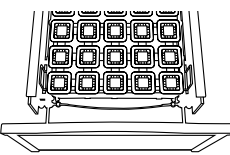


EasyClean

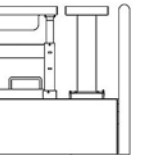


Standard | Aero

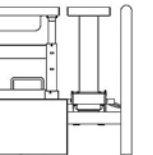
Bed extensions



Bed extension
with express release
(standard)

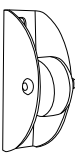


Permanent bed
extension divided 10
side guard (optional)



10-0580
Protector for bed extension
by 20 cm (optional)

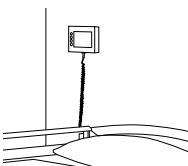
Optionen



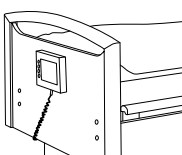
Vertical
wall stopper
castors



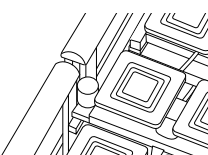
3-D wall stopper
castors, horizontal and
vertical protection



Head-end cable
connection with holder
for wall mounting

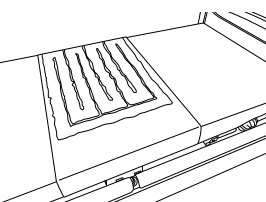


Foot-end cable
connection with holder
at the foot end

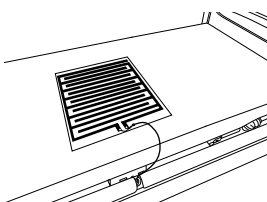


Connection for
moisture sensor mat

Accessoires



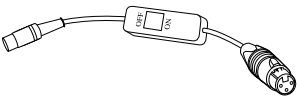
50-0583
Cotton moisture sensor mat;
without cable



50-0624
Plastic moisture sensor mat;
including cable



50-0623
Cable for cotton moisture
sensor mat



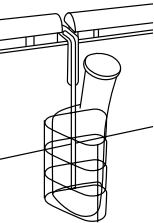
04-1508
Adapter cable with on/off switch and
suitable plug for connection to the
nurse call system (customer-specific)
for cable and wireless version



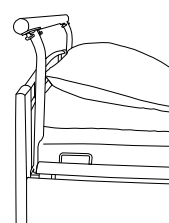
04-1608
Adapter cable without on/off switch;
with suitable plug for connection to the
nurse call system (customer-specific)
for cable and wireless version



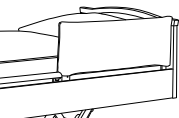
50-0681
Wireless receiver
for wireless version



10-0424
Accessories and handset holder
for attachment to side panel
50-0164 urine bag holder
(no picture)



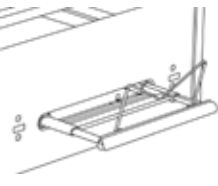
10-0534
Transport handle
EasyMove



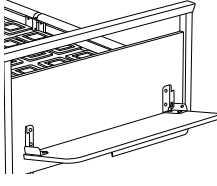
50-0174
Cushioning for divided
side guards (10)



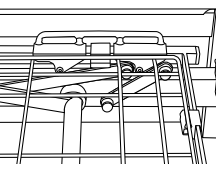
50-0206
Fall mat
W 90 x L 200 cm, height approx. 4.5 cm



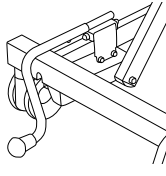
10-0617
Integrated Design Linen holder
compatibel with all beds (except 09
side guard with trigger release and
Design A-kk)



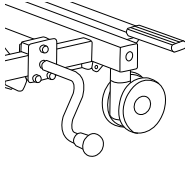
10-0719
Linen holder
compatible with all bed types



10-0563/10-0533/10-0521
Segufix holder
- for the thigh rest
- for the backrest
- for the seat section



10-0707
Head-end
wall spacers,
short



10-0708
Side-mounted
wall spacer,
short



Get in contact:



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