

■ ■ wissner-  
■ ■ bosserhoff

Functional elegance in nursing care



## sentida 1-6

Universal low nursing beds







# sentida – universal low nursing beds

No compromises: Safety and comfort in perfection

Falling is one of the greatest risks for the physical health and psychological well-being of elderly people. For this reason, systematic fall prevention is of crucial importance in care for the elderly, making it an important quality feature of a nursing home. The consequences of falls are often very serious for elderly people and, in the worst case, even irreversible.

The fear of further falls is one of the most common psychological consequences, leading to limited physical activity, a loss of self-confidence and social isolation. With the sentida range of low nursing beds, wissner-bosserhoff has achieved a consequent and above all uncompromising implementation of the requirements of modern nursing care: Maximum safety hand in hand with a cozy design. Innovative solutions such as the 3-stop strategy and the patented SafeFree® side guard concept reduce falls as well as the consequences associated with them and set standards in terms of safety, mobility, height adjustability and coziness.

**5**

**million  
falls of elderly  
people per year:**

Almost one third of people aged 65 and above, as well as 50% of those aged 80 and above fall at least once a year.

In Germany alone, there are about 5 million cases of elderly people falling each year.

(Source: "Gesundheit und Krankheit im Alter"  
(= health and illness in old age).  
Publisher: Karin Böhm, Federal Statistical Office of Germany  
/ Clemens Tesch-Römer, German Centre of Gerontology /  
Thomas Ziese, Robert Koch Institute, Berlin 2009)



**Prevention  
with sentida  
low nursing beds**

for use  
in institutions with  
high standards of universal  
care close to the ground:  
Nursing homes and  
homes for the elderly,  
care resorts, palliative wards,  
dementia and geriatric wards  
and rehabilitation  
institutions.



# The sentida living idea



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.



Low nursing bed sentida 5 in D10 design



Bedside cabinet vivo 2



Armchair belsedia comfort 609



Lindberg oak décor

# The sentida advantages

01

## Patented SafeFree® side guard concept

Often imitated but never duplicated - our contribution for less restraint in agreement with the Werdenfels care pathway\* and the Redufix\*\* project

- Divided side guards, each adjustable in 4 different heights
- No middle post, no dangerous central gap

02

## 3-stop strategy\*\*\*

for height adjustment

- Optimal nursing position at 80 cm bed height
- Safe mobilization at chair height at 41 cm bed height
- Fall prevention during sleeping phases at 27 cm bed height

03

## BiNetic patient surface

with double retraction:

Real pressure ulcer prevention - more than just a backrest in accordance with DBfK (German nurses association) recommendation.

- Your benefit: Reduction of pelvic compression as well as friction and shearing forces due to leg rest retraction by 6 cm
- Backrest retraction by 11 cm

04

04

## Design handset

Improved and extended functionality

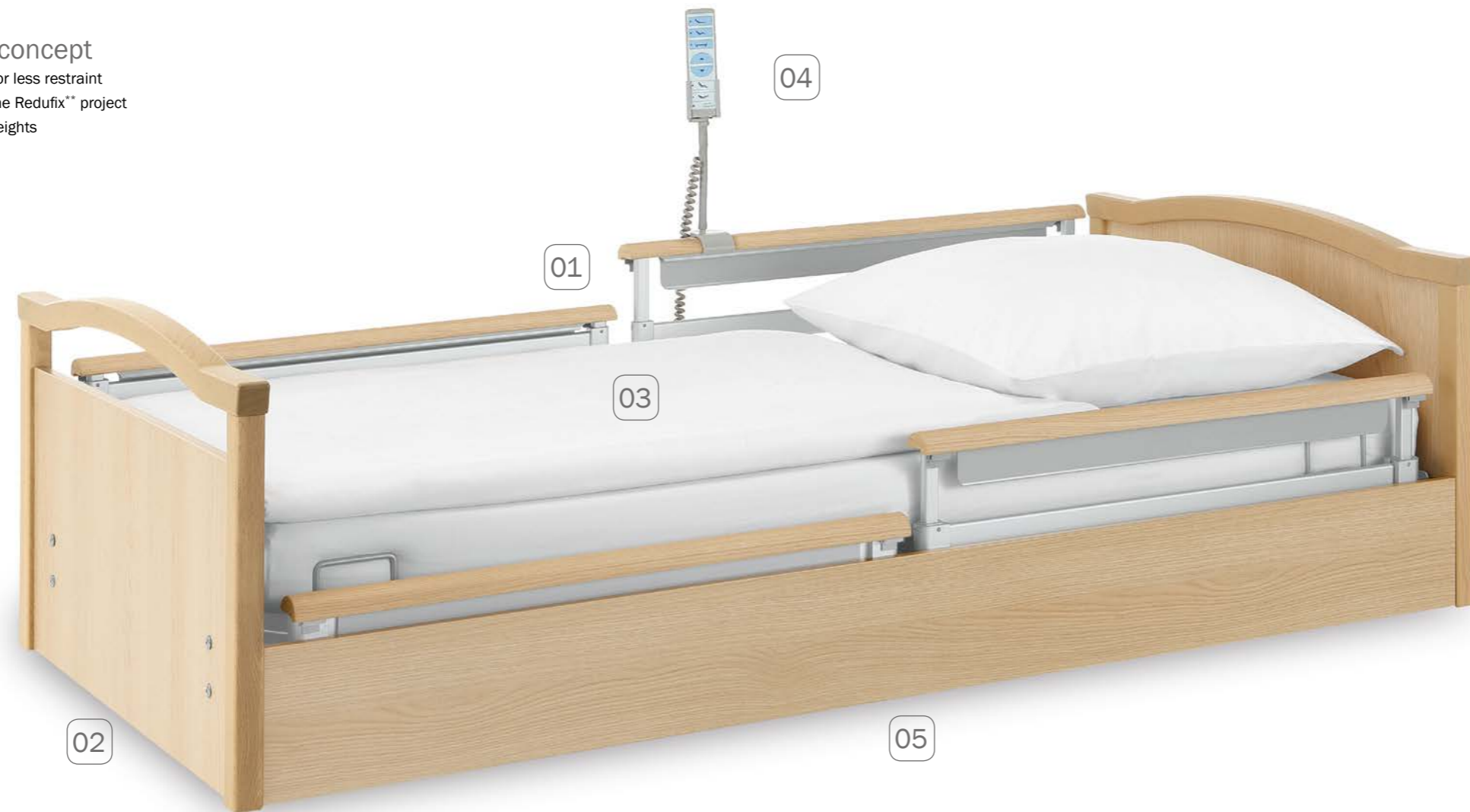
- 3 safety levels adjustable: Nursing, resident and safety mode
- 2 automatic positions: Comfort seating and prevention automatic
- Mobilization function
- Night light control
- Separate leg rest adjustment
- Play protection

05

## Night light function

Optionally, a night light can be integrated

- Helps the resident find their way at night
- More safety for the resident
- Simple power connection control
- Control via handset





# The sentida portfolio

sentida 1  
The entry model



Movability  
In low position

## Castors

Two fixed castors at the foot end  
Two 100 mm castors at the head end



Braking capacity  
Electric brake with handset

Height adjustment  
25-80 cm



sentida 3  
The mobile one



At every bed height

Four 50 or 75 mm castors  
at the foot end double castors  
Two 100 or 160 mm castors  
at the head end fixed castors



Electric braking with handset  
foot-end brake bar

25-80 cm

sentida 4  
The flexible one



At every bed height

50 or 75 mm double castors



Head-end and foot-end brake bar

25-80 cm

sentida 5  
The cozy one



At every bed height

50 mm double castors, completely covered  
by cozy undercarriage cladding



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

27-80 cm



sentida 6  
The extra mobile one



At every bed height

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



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

27-80 cm with 100 mm easy-roll castors  
29,5-82,5 cm with 125 mm easy-roll castors  
28-81 cm with 125 mm double or design castors  
32-85 cm with 150 mm easy-roll castors



sentida 7-i  
The intelligent one



For further information, please read  
our sentida 7-i catalog.





# sentida furnishing examples



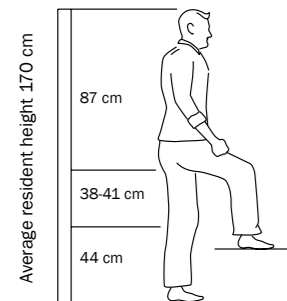


# BiNetic patient surface with double retraction

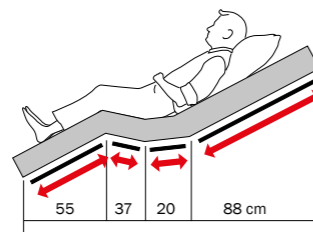
## Patient surface ergonomics

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 professor Eigler's findings, it can be seen that the backrest area should be at least 80 cm long in

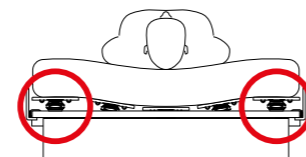
order to effectively support the cervical spine. An additional reduction of pressure can be reached with the BiNetic patient surface for patients with above-average height due to its integrated bed extension. The patient surface can be extended to 220 cm either temporarily and without tools using the 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)



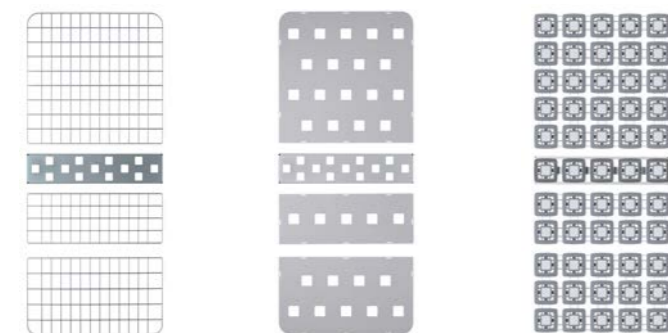
Comfort patient surface with 55 spring elements

## 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



Detail comfort patient surface

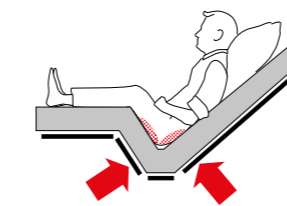
# for effective pressure ulcer prevention

## Effectiveness of double retraction confirmed

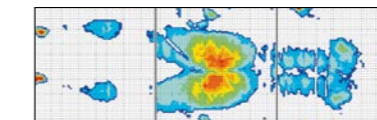
For years now, wissner-bosserhoff has been pursuing a practicable concept for reducing the risk of pressure ulcers: The double retraction as a component of the BiNetic patient surface. With the double retraction, not only the backrest but also the leg rest is located further apart from

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.

### Standard patient surface without relief

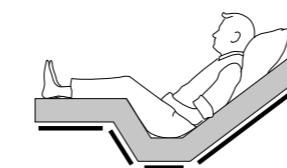


Single retraction = risk of pressure ulcer

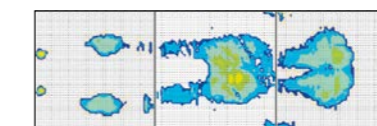


Thermal image of a standard patient surface

### WIBO patient surface with notable relief



6 cm ← → 11 cm  
Double retraction = pressure ulcer prevention



Thermal image of a BiNetic patient surface

Double retraction is not to be considered as the only means of pressure ulcer prevention, it can however effectively support existing options

and, above all, it demonstrates that we should make use of all technical means at hand to improve decubitus prevention.

Up to  
**1.5**  
million

people suffer from decubitus: In Germany alone, there are an estimated 750.000 to 1.5 million decubitus patients.

Immobile, ill and elderly people are affected particularly.

The annual costs of treating pressure ulcers in Germany amount to 1 to 4 billion euros. Due to the increasingly aging population and the increase in chronic diseases, the number of people treated for pressure ulcers will keep rising.

According to the "Gesundheitsbericht des Bundes" (German federal health report) (issue 12 on pressure ulcers, December 2002), corresponding preventive measures and optimized therapy could cut half of these costs.

Source: www.deutsche-dekubitusliga.de/das-problem



Double retraction =  
**17 cm**  
more space in bed

# 3 bed lengths

Without central gap > 318 mm and without middle post

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.



Bed extension with express release (option)

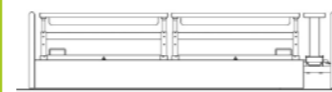
## 200 cm

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



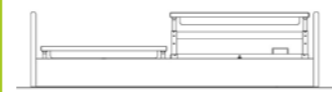
## 220 cm

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



## 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\*\*



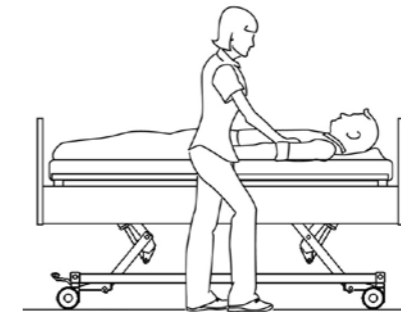
# 3-stop strategy

care, mobilization and safe sleep

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



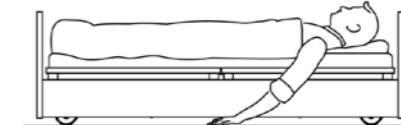
## 41 cm\*

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



# SafeFree® – the patented side guard concept

Obtain freedom – in line with the Werdenfelser Weg\*

## 4 side guards

1

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.

## 4-stage adjustment

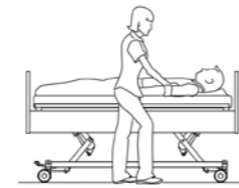
No protection needed



## 4 advantages

Barrier-free

No middle post and no central gap protector



2

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.

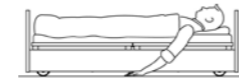
Soft protection

no FDM



Orientation

instead of freedom-depriving measures (FDM)



3

The 3/4 protection creates a deliberate bed egress gap at the foot end for the reduction of freedom-depriving measures (FDM), 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.

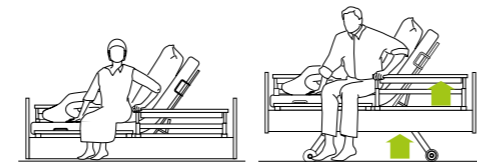
3/4 protection

no FDM



Mobilization

with adaptation to resident height



4

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.

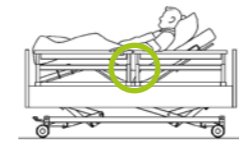
Full protection

for mattress heights from 12 to 18 cm



Safety

exceeding the requirements of the new standard IEC 60601-2-52



Mobilization with the right support angle according to the resident's height



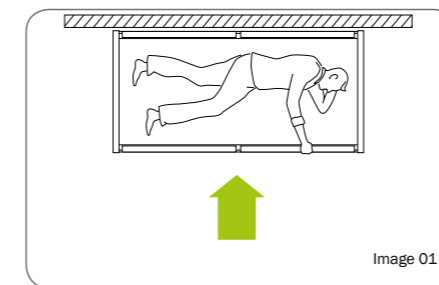
  
**More safety**  
 due to smaller central gap\* < 60 mm

- Targeted compliance with the standard IEC 60601-2-52
- Safety in working position, i.e. also with raised backrest or leg rest
- 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)

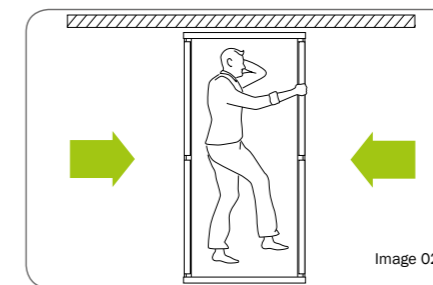


All-round access for nursing tasks with 4 divided side guards

- Flexible use of the bed for standard care, even in limited spaces (image 01)
- Flexible access from both sides of the bed in case of increased need for care (image 02)
- 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



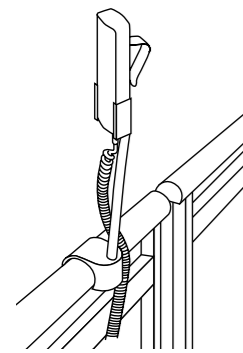
Increased need for care – access from both sides needed

# Intelligent design handset

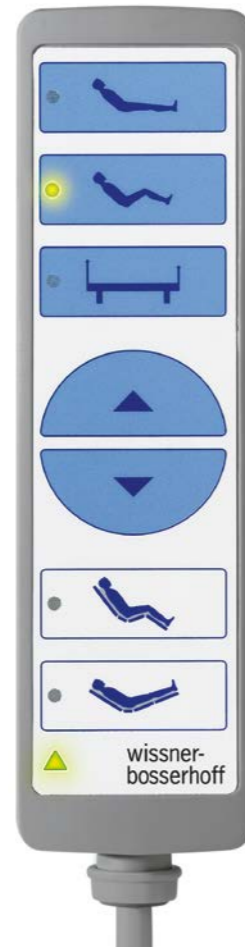
with extended functionality

Already at first glance, the handset of the sentida nursing home beds impresses with its clarity and ergonomic form: fewer buttons and large symbols ensure that operation can be learned intuitively.

The pre-selection function makes the handset single fault safe – triggering a function by accidentally pressing a key is not possible.



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)



Backrest adjustment

Auto contour

Height adjustment

Up

Down

Automatic comfort seating

Automatic positioning



## Extended functions

- Night light control
- Separate leg rest adjustment
- Mobilization function
- Play protection

# 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.

## Automatic comfort seating

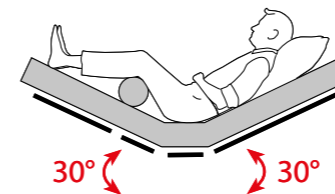
The automatic comfort seating brings the bed into a pre-selected seating position for watching TV and reading comfortably, for eating or communicating at eye level.

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.



## Automatic positioning

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

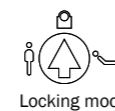
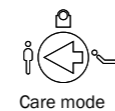


# 3 safety levels

Integrated into the handset rear side is the locking function, eliminating the need to search for a control box at the patient surface panel or to bend down.

With a magnet-free key, the three handset modes can be chosen:

- Care mode:** All buttons are unlocked.
- Locking mode:** All functions of the handset are locked.
- Resident mode:** The upper three buttons are available to the resident.



Key for safety levels (magnet-free)



# SafeSense®\*

Safety + freedom day and night due to intelligent bed exit sensor system

wissner-bosserhoff, your reliable partner for the reduction of freedom-depriving measures (FDM): With SafeSense®, wissner-bosserhoff presents an intelligent assistance sensor system, which reliably helps reducing freedom-depriving measures 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. SafeSense® is compatible with standard nurse call systems and can be retrofitted to wissner-bosserhoff nursing home beds manufactured in 2002 or later





**More safety –  
less freedom-  
depriving measures  
(FDM)**

- Faster response time in the event of falls
- Greater safety during night and weekend shifts
- Ideal in combination with sentida low nursing beds and SafeFree® side guards

## 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 immediate alarm from 0 seconds to 30 minutes
- Adaptation to the resident's mobility



## Integrated or available as retrofit kit

- Accessory option for current WIBO nursing home beds
- Retrofit kit for electrical WIBO nursing home beds manufactured in 2002 or later
- Available with cable or wireless

Further information on SafeSense® is provided on page 30.



# Effective cable management

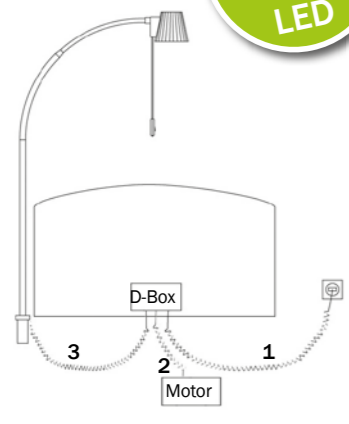
D-box provides energy for bed and reading light

With the convenient D-box, tangled cables are a thing of the past. Attached at the inside of the head section, the D-box collects both the cables of the bed and light. This way, only one cable leads to the power socket.

## 3 cables – one solution – several advantages

- You only have to pull out one single cable to be able to move the bed.
- No risk of mixing up cables when unplugging.
- Independent from the motor. Therefore, good access to the connectors in every bed position.
- For halogen and LED lights.

Halogen + LED



# Antimicrobial coating

Sterile\* surfaces in a minimum of time

In nursing care institutions, the number of infections with MRSA (methicillin-resistant Staphylococcus aureus) and other pathogens which are hard or complex to prevent or kill by common hygiene measures is increasing.

For this reason, wissner-bosserhoff now offers antimicrobial coating for nursing home beds, being the first manufacturer in Europe to provide this. The parts of the bed most frequently touched by the resident and nursing staff are treated with this coating to effectively prevent the multi-resistant viruses from emerging or spreading. Ions harmless for humans are constantly created and attack the metabolic system of harmful microorganisms.

The antimicrobial coating has successfully passed practical tests: The ionic agent is highly effective against bacteria, viruses, fungi and algae. Even when commercially available disinfectants are used, the antimicrobial effect is not impaired.



## Your advantages at a glance

- The settlement and transmission of germs is reduced
- Reduced risk of infection by inhibiting germ growth
- The number of infections in nursing homes is reduced
- Antibiotic resistance is reduced
- The risk of damage by cleaning agents is reduced

Permanent germ accumulation and spreading to the most commonly touched surfaces of the nursing home bed and bedside cabinet is thus effectively prevented.



MRSA is the most common multi-resistant pathogen of nosocomial infections in Europe.

According to estimates, there are about

**170,000**

cases of MRSA infections each year, leading to the loss of more than

**5,000**

lives in the European healthcare system, more than one million additional hospital days and additional costs of about 380 million Euro.

Source: <http://www.aerzteblatt.de/archiv/112574/Methicillin-resistente-Staphylococcus-aureus-in-Deutschland-Epidemiologie>





# memoriana

sentida in the room concept for dementia patients

Adequately taking care of people with dementia is a particular challenge for nursing staff and relatives. In cooperation with dementia experts from Great Britain and Germany, wissner-bosserhoff has developed a room concept especially for dementia patients. Specifically adapted to the needs of the patient, the new concept offers a considerable reduction in the strain on those providing care. The focus of the development includes three targets for the care of residents with dementia:



## Improving orientation

The resident is offered reference points for orientation in time and space, as well as colored orientation aids. The targeted integration of colors, forms and objects helps in terms of spatial orientation – worries and frustrations are reduced.



## Increasing independence

The more independently the resident can move in his surroundings, the less strain on the nursing staff. Functional furnishing elements such as handrails and open storage areas promote the dementia patients' mobility and independence. Other areas of the room are, however, only accessible to those providing care.



## Maximizing safety

Resident safety is of utmost importance. Low nursing beds with side guards, handrails on furniture and walls as well as visual orientation aids provide the person diagnosed with dementia a maximum level of safety without feeling restrained.

# 100

different causes

Dementia can have up to 100 different causes. As complex as the causes and triggers of dementia is the course of the illness, which may differ from resident to resident.

Source: www.bmg.bund.de  
German Federal Ministry for Health



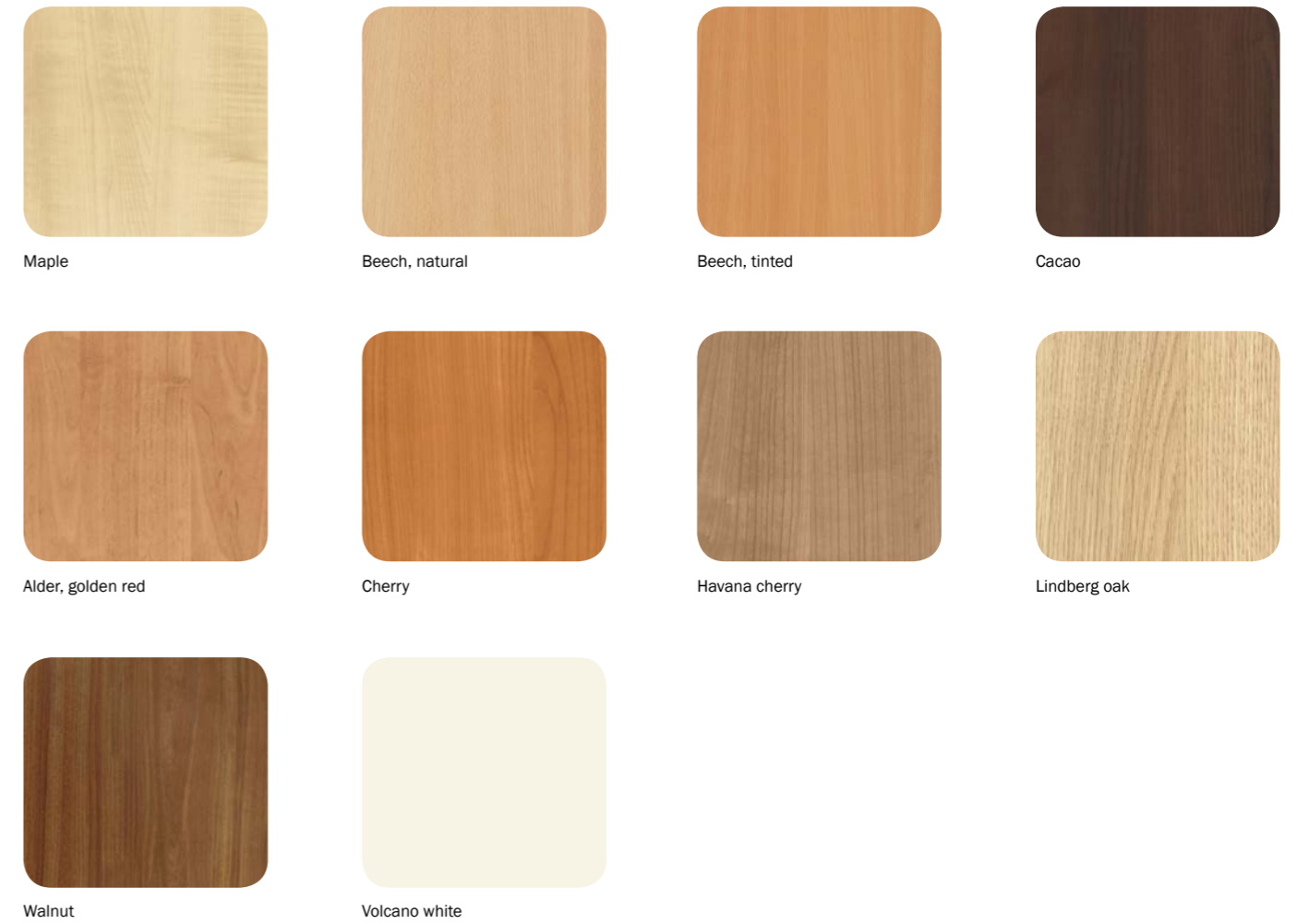
For more detailed information on the dementia room concept, have a look at the separate memoriana brochure or contact us by e-mail: [info@wi-bo.de](mailto:info@wi-bo.de)



# Design | head / foot sections



# Colors | décors\*



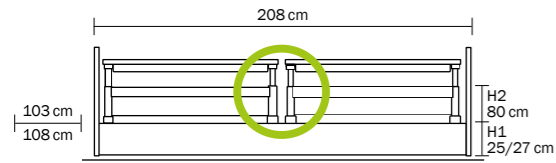
## Color combination memoriana



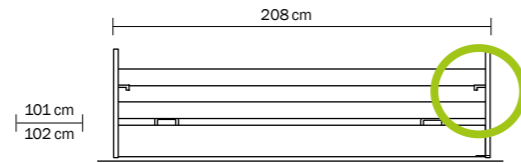


# Furnishings and accessories

## Dimensions

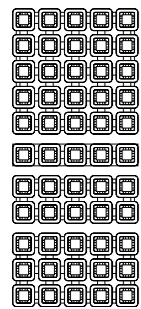


sentida with divided (10) side guards, without gap  
Outer dimensions: L = 208 cm, W = 103/108 cm  
Mattress dimensions: L = 200 cm, W = 87 cm  
H1 25/27 cm (low position), H2 80 cm (highest position)

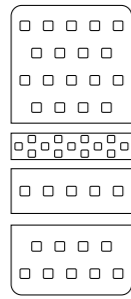


sentida with continuous 2-part  
09 side guard with trigger release

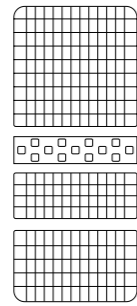
## Patient surfaces



Comfort

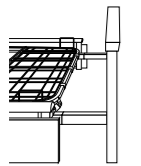


EasyClean

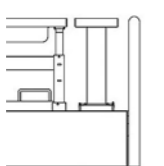


Standard | Aero

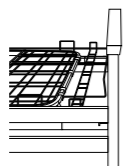
## Bed extensions



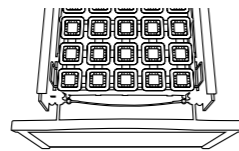
Temporary bed extension divided  
10 side guard (standard)



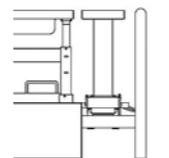
Permanent bed extension divided  
10 side guard (optional)



Permanent bed extension  
09 side guard (optional)

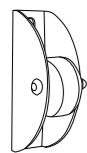


Bed extension with express release  
(optional)



10-0570 / 10-0580  
Protector for bed extension  
by 20 cm (optional)

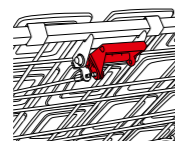
## Options



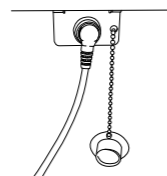
Vertical wall stopper castors



3D horizontal and vertical wall stopper castors



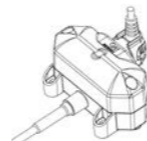
CPR release on the backrest



Plug & play use of the handset on one or both sides of the bed

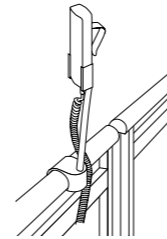


D-box with light connection for optimal cable management

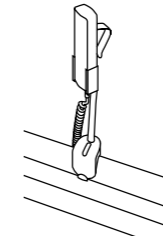


Underbed light (switchable)

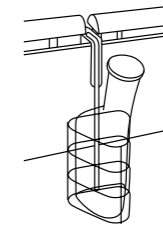
## Accessories



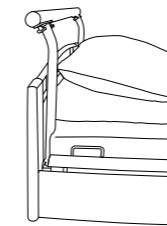
10-0419  
Handset holder for divided side guards  
10-0421  
Handset holder, short



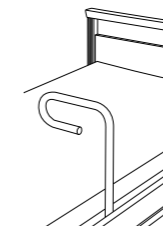
10-0422  
Accessories and handset holder for continuous side guards  
10-0421  
Handset holder, short



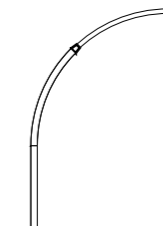
10-0424  
Accessories and handset holder for attachment to side panel  
50-0164 urine bag holder (no picture)



10-0534  
Transport handle EasyMove



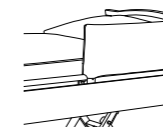
10-0715  
Standing-up aid for 09 side guards as well as 3/4 side guards



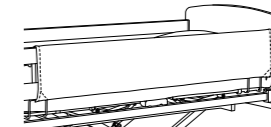
50-0212 Design halogen lamp soluna with 12 V transformer  
50-0213 Design halogen lamp soluna without 12 V transformer  
50-0237 Design LED light soluna with power supply unit  
50-0550 Design LED light soluna without power supply unit



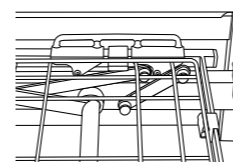
50-0206  
Fall mat width 90 x length 200 cm, height approx. 4.5 cm



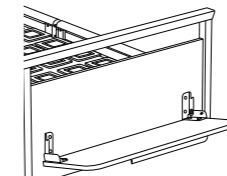
50-0174  
Cushioning for divided 10 side guards



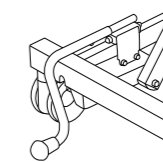
50-0338  
Cushioning for 09 two-part side guards



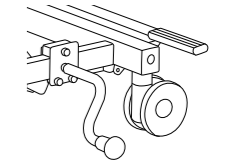
10-0563/10-0533/10-0521  
Segufix holder  
- for the thigh rest  
- for the backrest  
- for the seat section



10-0719  
Linen holder, compatible with all bed types



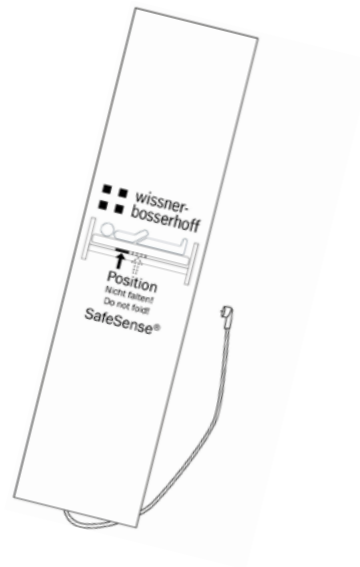
10-0707  
Head end wall spacers, short (for sentida 5 + 6 only)



10-0708  
Side-mounted wall spacer, short (for sentida 5 + 6 only)

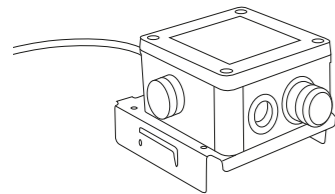
# Accessories – SafeSense® bed exit system

## SafeSense® sensor mat



**02-000781**  
SafeSense® sensor mat  
80 x 20 cm

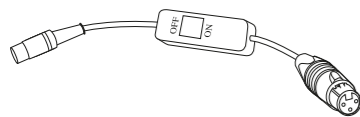
## SafeSense® bed exit box



**Cable version (SafeSense® 1):**  
**04-1544-001**  
Bed exit box, for beds without battery  
**04-1544-004**  
Bed exit box, for beds with battery

**Wireless version (SafeSense® 2):**  
**04-1544-002**  
Bed exit box, for beds without battery  
**04-1544-003**  
Bed exit box, for beds with battery

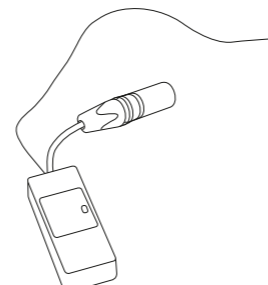
## SafeSense® connection kit



**04-1508**  
Adapter cable with on/off switch and suitable plug for connection to the nurse call system (customer-specific) for the cable and wireless version (SafeSense® 1 and 2)



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



**02-000726**  
Wireless receiver for wireless version only (SafeSense® 2)

# 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.



## Design

wissner-bosserhoff places great emphasis on design. Not only do our products combine functionality and high-quality workmanship but also design at the highest level. They feature a high level of functionality and cozy design as well as convenient usability and ergonomics. Having won several prestigious design awards, sentida is now among the most important nursing home bed series on the international market.





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