

SAFE LIVING AT HOME



*Lenus*



The floor-level bed for  
optimal fall prevention

International edition

STIEGELMEYERGROUP



BURMEIER



## *Lenus – the intelligent bed for floor-level care at home*

When people are cared for at home, the permanent risk of falling can become a heavy burden. There are many factors that may increase this risk – advanced dementia, lack of awareness of one's own situation, or a strong urge to move with a marked tendency to wander.

Constant restraint through safety sides is unacceptable for people being cared for and may not always be legally permitted. However, family carers are unable to monitor their loved ones around the clock. The floor-level standard of care offers a solution. This entails the person being cared for lying and sitting in as low a position as possible to avoid injury in the event of a fall. This still enables people to live out their urge to move. However, merely placing a

mattress or soft mat on the floor is not helpful – the cared for person then has an even less secure footing on this soft ground, and the physical effort of care is also greatly increased.

Our Lenus floor-level bed solves this problem. With its ultra-low position of 15 cm, it protects people in bed without the need for liberty-depriving measures. At the same time, it supports relatives and carers with its maximum working height of 80 cm and its electrically adjustable mattress base by providing all the advantages of a fully equipped care bed.

## *Contents*

- 2 Introduction
- 4 The Lenus
- 6 Comfort
- 7 Safety
- 8 Mattresses
- 9 Accessories and decors
- 10 Technical data
- 11 The Stieglmeyer-Group



**Floor-level furniture and mats can be a good option to help people with advanced dementia to maintain their freedom of movement, including crawling, residual movements and tossing and turning.**

Schuhmacher, B.; Becker, C.; Koczy, P.; Viol, M.; Klie, T. (2017): Beispiele für eine gute Praxis bei der Vermeidung von körpernahen Fixierungen in Einrichtungen der stationären Altenpflege



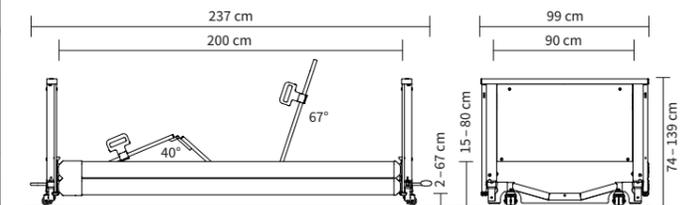


Its lowest position, at just 15 cm, protects against falls, without resorting to liberty-depriving measures.

## Strong advantages

- Large height adjustment range of 15 – 80 cm
- Automatic intermediate stops at 25 cm and at the standing up and transfer height of 38 cm
- Mattress base dimensions 90 x 200 cm
- Integrated 20-cm bed extension for tall people
- High safe working load of 225 kg
- Tool-free installation of full-length safety side and the combinable split safety sides with Easy Click
- Straightforward castor braking in pairs with easy-to-reach brake pedals
- Pinch protection at the lowest height through an acoustic signal and reduced-speed height adjustment
- Ground clearance for the use of patient lifts
- Homelike appearance with attractive wood decors and optional wooden surrounds

### External dimensions/height adjustment range:



# Lenus

## Protection and quality at the same time

Optimal **fall prevention** and **back-friendly care** at the touch of a button: that's the particular advantage of the Lenus. An intuitive handset moves the bed safely through its large **height adjustment range of 15 to 80 cm**. Full-length safety sides as standard offer even more protection if required and can be removed without tools at any time using the Easy Click system. The same applies to the combinable split safety sides, which offer safety while allowing unobstructed entry and exit. A familiar, homelike ambience is particularly important for people with dementia – our Lenus contributes to this with its attractive wood decors and optional wooden surrounds for the headboard and footboard.

With an floor-level bed (15 cm) the force of impact can be reduced by 40 % in comparison with an adjustable low-height bed (25 cm).

Zaphir, Dr. George (2014): Lowest Heights of Floor Level Beds: Fall Velocity and Impact Force Analysis and Resulting Injuries

### Special features:



▲ The Easy Click system makes for easy and effortless assembly and dismantling.

### SAFE LIVING AT HOME

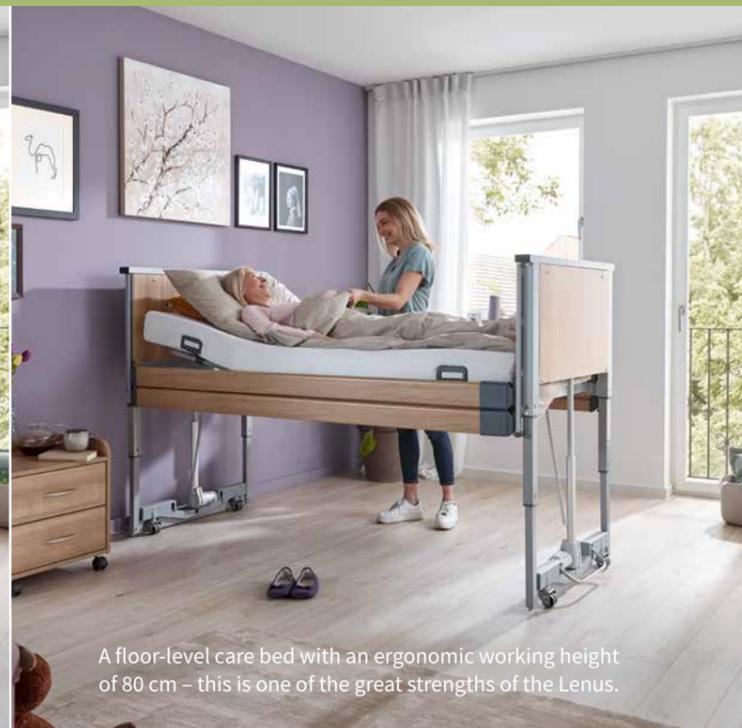
## The Easy Click system

With the Easy Click system, the safety side can be fitted and removed with a single click, without the need for tools. It is also safely protected from unintentional removal by the resident of the bed. Easy Click takes the strain out of everyday life:

- Easy to retrofit any time without tools
- Quick bed assembly
- Safety side removable to permit thorough cleaning
- Attractive plastic caps protect the bars



The comfortable sitting position allows communication at eye level. The sitting surface is enlarged by the retracting backrest.



A floor-level care bed with an ergonomic working height of 80 cm – this is one of the great strengths of the Lenus.

## Comfort

The ideal height for every situation



▲ During height adjustment, the bed makes an intermediate stop at the ideal position for standing up.



▲ Combinable split safety sides can also be used as a practical mobilisation aid.

Even with floor-level care, the person being cared for needs to experience moments of eye-level contact – or carefully supported mobilisation. The Lenus provides ideal assistance here. During height adjustment, it makes an **intermediate stop** at 38 cm to allow the patient to get up effortlessly and ergonomically. This height can also be set individually depending on how tall the user is. At the maximum height of 80 cm, even tall carers can **work in a back-friendly position**.

The **sitting position** of the Lenus is particularly helpful for people who can seldom get out of bed. It supports breathing, promotes communication at eye level, simplifies meals in bed and reduces the risk of aspiration when eating and drinking.

## Strong advantages

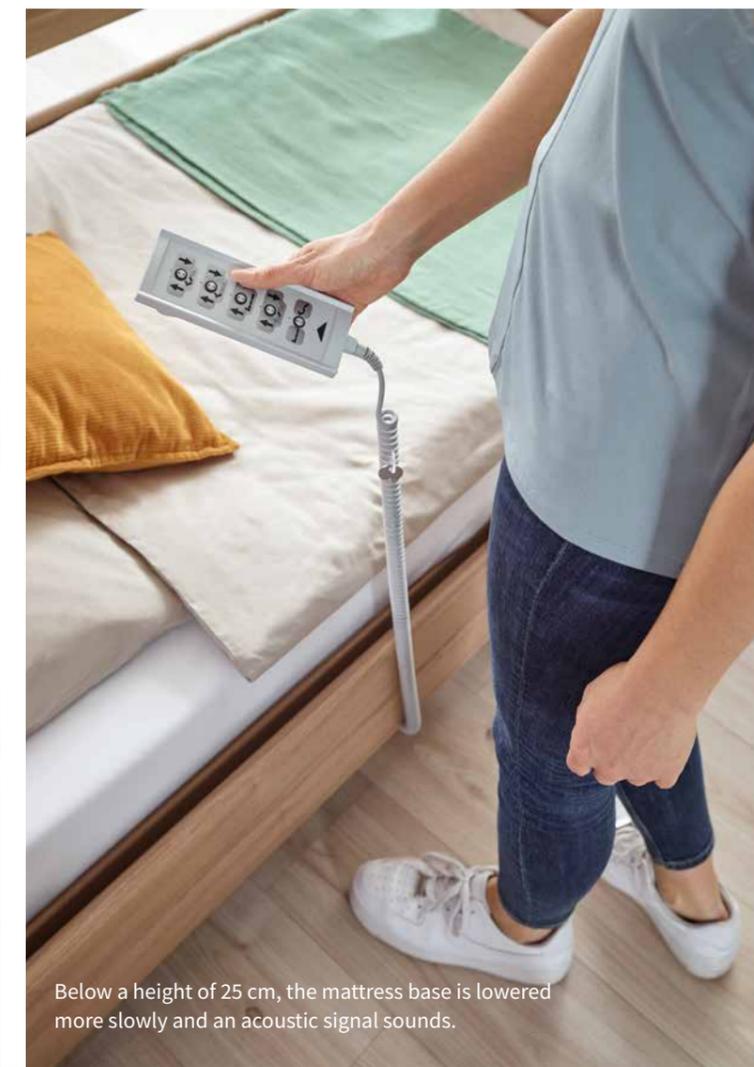
- The Lenus ultra-low bed also meets all the requirements of a normal care bed
- Infinitely variable adjustment with an easy-to-operate handset
- Mobilisation of the resident of the bed through individual entry and exit height
- Ergonomic sitting position for better participation in everyday life
- Back-friendly work for carers of all sizes
- Stretched leg up position to relieve veins and strengthen circulation
- Electrical height adjustment of the lower leg rest according to the care situation



With the bed against the wall, the head-end brake is long enough to be reached from the side of the bed.

## Safety

Well thought-out solutions for everyday life



Below a height of 25 cm, the mattress base is lowered more slowly and an acoustic signal sounds.

Great care has been taken to design the bed with the best possible **pinch protection** in the area close to the floor. When the mattress base is lowered, it stops at a height of 25 cm. A button on the handset must be pressed again to confirm it should be lowered even further. The bed then continues its downward movement at a **reduced speed**, accompanied by an acoustic signal until the lowest position of 15 cm is reached.

Despite its low position, the Lenus has internal castors that do not constitute tripping hazards. The **brake pedals** are easy to reach at the head end and foot end. With the bed against the wall, the head-end brake is long enough to be reached from the side of the bed.

### Acoustic signal



If the bed approaches the area close to the floor during height adjustment, an acoustic signal sounds to provide optimal pinch protection.



Available for mattress base dimensions:

**Sky-fit**  
90 x 200 cm

**Comfort-fit**  
90 x 200 cm

**Basic-fit**  
90 x 200 cm  
90 x 220 cm

## Mattresses

For comfort, day and night

If people being cared for spend long periods in bed, original Burmeier mattresses offer an ideal combination of comfort and prevention. They are precisely tailored to the mattress base sections and accommodate every movement. When the backrest and thigh rest are adjusted, they therefore provide ideal pressure relief. The Sky-fit and Comfort-fit models are also reversible mattresses with one smooth side and one side with incisions. As a result, these mattresses are never "too hard" or "too soft" – they can simply be turned over and offer two different lying sensations.



▲ Sky-fit model with high-quality Skytherm® top layer.

### Sky-fit – the premium model

- High-quality dual-layer mattress with a 2-cm Skytherm® top layer and a 12-cm cold-foam base layer
- Incisions in the base layer ensure it optimally adapts to the mattress base
- Both sides can be used for lying on
- Reinforced edge zones allow users to sit comfortably on the side of the bed
- Removable reversible cover, one side polyurethane (PU), the other side polyester and viscose, which can be washed in a standard washing machine
- Compression hardness 5.0 kPa (edge zones), 4.0 kPa (base layer), 2.5 kPa (top layer), density 50 kg/m<sup>3</sup> (base), 40 kg/m<sup>3</sup> (top)



▲ Comfort-fit model with edge-zone reinforcement.

### Comfort-fit – the mid-range mattress

- The comfortable mattress with a core made of resilient polyurethane cold foam (14 cm)
- Incisions in the base layer ensure it optimally adapts to the mattress base
- Both sides can be used for lying on
- Edge-zone reinforcement protects against falling out of bed
- Removable reversible cover, one side polyurethane (PU), the other side polyester and viscose, which can be washed in a standard washing machine
- Compression hardness 5.0 kPa (edge zones), 4.0 kPa (base layer), density 40 kg/m<sup>3</sup>



▲ Basic-fit model.

### Basic-fit – the entry-level model

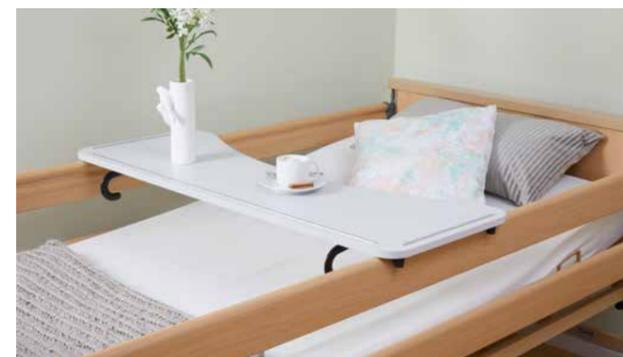
- Single-layer mattress made of cosy polyurethane (12 cm)
- White removable PU cover, which can be washed in a standard washing machine
- Compression hardness 4.5 kPa, density 40 kg/m<sup>3</sup>



▲ Foam leather covers protect from knocking against the safety sides.



▲ Fabric Softcovers in attractive colours – here, in vanilla – encase the safety side.



▲ The practical tray for enjoyable mealtimes.



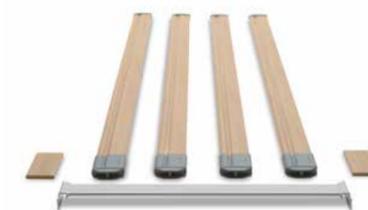
▲ Reading lamps can be inserted into the sleeve or attached to the patient lifting pole.

## Accessories

Design your ideal bed



▲ The comfort mattress base ensures ideal pressure distribution thanks to 50 free-floating spring elements.



▲ The optional extension set allows ideal use of the integrated bed extension.

With original accessories from Burmeier, the Lenus can be transformed to a bed that leaves nothing to be desired. Already integrated is a pull-out extension of the bed frame by a length of 20 cm. To enable its use, an **extension set** with an additional mattress base section, plus longer safety side bars and infill pieces for the side panels, is available as an option. A perfect-fit **mattress piece** is also available for extending the mattress. A **reading lamp** and **under bed light** provide pleasant light and safe orientation at night. The optional **foam leather cover** protects restless users from knocking against the safety side. A practical **tray** for meals is simply placed on top of the safety side.

In addition to the standard Natural Beech decor, the Lenus is also available in the attractive Havana Cherry wood tone. The head and footboards can be encased with attractive **wooden surrounds** as an option. Safety sides can optionally be covered with fabric **Softcovers** in pleasing colours.

For maximum well-being, we recommend the **comfort mattress base** made of 50 free-floating spring elements.



▲ Wooden surrounds attractively encase the headboard and footboard.

# Equipment and options

	Lenus
<b>Dimensions and weights</b>	
Overall dimensions	99 x 237 cm
4-section mattress base, sliding backrest, motorised adjustment of lower leg rest	90 x 200 cm
Net weight	123 kg
Safe working load	225 kg
Reverse-Trendelenburg position	12°
<b>Wood decors</b>	
Natural Beech	✓
Havana Cherry	0
<b>Frame colour</b>	
Argentum	✓
<b>More equipment and options</b>	
Handset with selective locking function	✓
Metal slat mattress base	✓
Linak 24-volt drive system	0
Linak 230-volt drive system	✓
Wooden surrounds for the head and footboards	0
Patient lifting pole	0
Full-length safety side with Easy Click system	✓
Combinable split safety sides with Easy Click system	0
Foam leather cover	0
Mechanical CPR backrest release	✓
Rechargeable battery	0
Integrated bed extension (20 cm)	✓
Extension set with extension piece for mattress base, bars and panel infill pieces	0
Mattress piece for bed extension	0
Reading lamp	0
Under bed light	0
Tray	0
Softcover for safety side (Bordeaux, Brown, Dark Blue, Lavender, Petrol, Vanilla)	0
Extension cushion for the bed frame side	0
Comfort mattress base	0
Flexible transmitter holder for handset	0
Handset extension lead (2 metres long)	0
Trendelenburg handset (for use in nursing homes only)	0
Carry bag for safety side bars	0

## Decors



▲ Natural Beech    ▲ Havana Cherry

## Safety sides



▲ Full-length safety sides (DSG)



▲ Combinable split safety sides (KSE)

✓ = standard feature  
0 = available as an option



## Custodians of values Shapers of the future

### STIEGELMEYERGROUP

#### Custodians of values

Our company was founded in Herford in 1900 and is still a family-run enterprise today. Respect and a sense of responsibility towards our customers, employees and partners form the basis for our day-to-day work. Based on these values and our many years of experience, we offer our customers all over the world high-quality products, solutions and services to meet the needs of the care and healthcare sectors.

#### Shapers of the future

In order to cope with rapid changes in the care and healthcare sectors, we develop all our products ourselves. Creating innovations and visions of what care will be like in future are the goals we pursue. We maintain regular contact with our customers in order to support them in their daily tasks. Implementing tomorrow's trends today is a successful tradition of ours.

#### Our expertise

Hospital

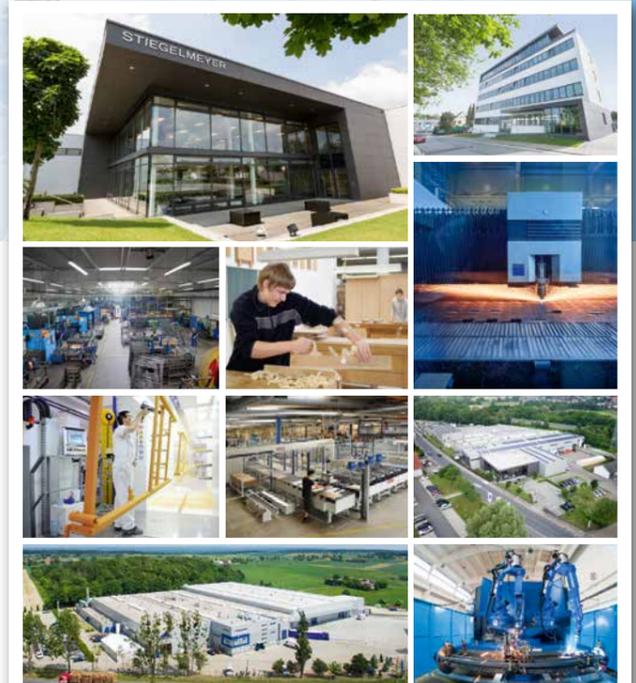
Nursing home

Homecare

Lifestyle beds

Contract furniture

Service



The Stiegelmeier-Group is your international partner for hospitals and care facilities and, with the Burmeier brand, also for home care. We support our customers with practical products, solutions and services, which we constantly develop further.

- Founded in 1900 and still family-run today
- Employs 1,100 members of staff worldwide
- Production of all core products in our own factories
- Product development and manufacture in Germany
- Services, training and process optimisation at the customer's site
- International certification and export to more than 60 countries
- Sales companies in Belgium, Finland, France, the Netherlands, Poland and South Africa

Our brands





**Burmeier GmbH & Co. KG**  
Industriestraße 53  
32120 Hiddenhausen  
Phone +49 (0) 5223 9769 - 0  
Fax +49 (0) 5223 9769 - 090  
info@burmeier.com  
www.burmeier.com

A Stieglmeyer-Group company

## STIEGELMEYERGROUP

### Hauptsitz / Headquarters

---

*Deutschland / Germany*  
**Stieglmeyer GmbH & Co. KG**  
Ackerstraße 42  
32051 Herford  
Phone +49 (0) 5221 185 - 0  
Fax +49 (0) 5221 185 - 252  
info@stieglmeyer.com  
www.stieglmeyer.com

*France*  
**Stieglmeyer SAS**  
16 Avenue de l'Europe  
Bâtiment SXB1  
67300 Schiltigheim  
Phone +33 (0) 4 7238 - 5336  
contact@stieglmeyer.fr  
www.stieglmeyer.fr

*South Africa*  
**Stieglmeyer Africa (PTY) Ltd**  
The Estuaries · Century City  
Cape Town, 7441  
Phone +27 (0) 21 555 - 1415  
Fax +27 (0) 21 555 - 0639  
info.southafrica@stieglmeyer.com  
www.stieglmeyer.co.za

*Nederland / Netherlands*  
**Stieglmeyer BV**  
Peppelenbos 7  
6662 WB Elst  
Phone +31 (0) 345 581 - 881  
info@stieglmeyer.nl  
www.stieglmeyer.nl

*Suomi / Finland*  
**Stieglmeyer Oy**  
Ahjokatu 4 A  
15800 Lahti  
Phone +358 (0) 3 7536 - 320  
Fax +358 (0) 3 7536 - 330  
stieglmeyer@stieglmeyer.fi  
www.stieglmeyer.fi

*Polska / Poland*  
**Stieglmeyer Sp. z o.o.**  
86-212 Stolno  
Grubno 63  
Phone +48 56 6771 - 400  
Fax +48 56 6771 - 410  
info.stolno@stieglmeyer.pl  
www.stieglmeyer.pl



Finden Sie Ihren Ansprechpartner auf unserer Website:  
*Find your local partner on our website:*  
[www.stieglmeyer.com/partner](http://www.stieglmeyer.com/partner)

[burmeier.com](http://burmeier.com)