

# Puro



Clinic | Care | Homecare | Assist



More than just  
a bed





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## More than just a bed: Puro

The Puro hospital bed is more than just a "patient bed". These days, medical products must offer clear-cut added value: **innovative technology** teamed with **useful services**. The Puro concept provides solutions for the tasks of the current care routines.

Hygiene, patient comfort and easy handling are key issues that were considered when developing the Puro. Useful services before and after the bed purchase facilitate the maintenance of the Puro's value.

During our more than 100 years of experience in developing hospital beds and **listening closely to our customers**, we have learned that every bed has to integrate with the hospital setup individually.

### Individual consultations

As early as in initial talks with the customer, we examine the processes that relate to the availability, cleaning and maintenance of the beds. We have the objective to offer a hospital bed that is, in addition to the mere product benefits, perfectly adjusted to the customer's **daily routines**. Moreover, we analyse the operational procedures for the bed with the customer to allow the bed to be used in an even more economical way.



### Versatile product benefits

The Puro combines a user-focused design with easy operation and innovative solutions for hygiene. The **MultiFlex<sup>+</sup>-safety sides** for one-hand operation with soft lowering of the side supports allow easy access to the patient.

Due to the **planar design** and cable integration in the frame, the bed can be cleaned quickly and easily.



### Reliable service

A hospital bed has to function at all times and under maximum stress. It is simply indispensable in the day-to-day hospital routine. To ensure this, we offer a broad **service network** and long-term **spare parts delivery**. Consequently, bed downtimes are minimised and continual availability is ensured. In case it is needed, our service staff can offer support with their comprehensive product know-how and quick on-site assistance.





## Functional design

A hospital bed initially impresses with its attractive appearance. However, its technical functions must be equally convincing.

The Puro features a balanced use of shapes. The head- and footboards have deliberately been designed with a low height. As a result, the bed has a more clean-lined appearance, generating a **homelike atmosphere**. The head- and footboards are available in the two versions **Stelo** (image 1) and **Rondo** (image 2). Due to the easy-to-clean design, the Puro comes with

good hygiene characteristics (image 3). The compact design of the safety sides makes the bed appear slim. Moreover, this provides additional protection against damage for the sides of the bed when the bed is moved (image 4). The integrated **deflection cone** above the wall deflection rollers lets the bed avoid unexpected edges and corners (image 5). The **5<sup>th</sup> castor** additionally enhances the ability of the bed to manoeuvre along narrow corridors (image 6). The new design language of the Puro is also reflected in the handset and the brake pedal (image 7 and 8).





## Innovative solutions for safe hygiene

Good hygiene characteristics are an enormous challenge for a hospital bed. How can a bed be designed in such a way that thorough and fast cleaning is possible?

With the Puro we have **integrated the cables into the bed frame** so they do not interfere with manual cleaning (image 1). Furthermore, we employ closed, large-format and removable components to make

cleaning by hand as simple as possible (image 2). However, the inevitable niches are easily accessible, since we have allowed enough space for them (image 3). In addition, the **curved shape** of the safety sides facilitates cleaning (image 4).

Needless to say that the Puro is also, as an option, suitable for automatic decontamination.





## Solutions for bed reprocessing

All over the world, hospitals are seeking ways to improve the hygiene of their beds. Multi-resistant organisms cause dangerous infections in hospital units at an ever-increasing rate. Shorter hospital stays and increased patient turnover make **infection prevention** even more challenging. At the same time, hospitals have increasingly little time available to reprocess beds after use, while also having to keep these pro-

cesses cost-efficient. Stiegelmeyer is testing the washing process in cooperation with renowned manufacturers of washing systems in order to find a solution to these challenges: the best possible **automated reprocessing** of hospital beds.

Our more than 40 years' experience with automatic reprocessing of hospital beds has, of course, influ-

enced the development of the Puro. Thanks to its **cavity-sealed frame structure**, the washable version of the Puro meets the high demands of automatic decontamination. This means that all bed components can be cleaned particularly thoroughly. The special **cathodic dip coating** ensures long-lasting corrosion protection. Thanks to its quick-drying materials as well as its **water draining shape**, the bed dries

swiftly. This saves time that is highly valuable in today's care routine. If you are not sure how and where your beds can best be cleaned and which reprocessing method is the right one for you, please contact us directly. We will be pleased to advise you.



With **EasyCare**,  
care staff have  
**all options**  
at their fingertips



## Easy-to-operate concept

The Puro is operated with the aid of an **LCD handset** with only three buttons and a large display. As a result, handling is particularly straightforward and easy: for patients, care staff and technicians alike.

Using the **three buttons**, the handset can also be operated by severely restricted patients (image 1). Care staff can call up special functions on the handset, such as emergency settings. Furthermore, options for the patient can be specifically locked and released. With **EasyCare**, care staff always has access to all adjustment options – even those that are locked.

For service technicians, the handset offers special settings for bed maintenance. In addition, potential problems can be solved particularly quickly on the basis of the integrated **error analysis**.

The LCD handset is very robust and has a slim and elegant design. Dimmed permanent backlighting makes the **controls easy to** see at any time of day or night. Particularly functional: The handset can be inserted into the side of the bed frame where it is both protected and easy to reach (image 2).



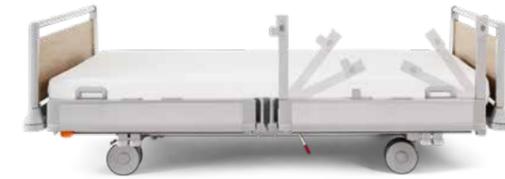
## Practical details

The head- and footboards satisfy users with their elegant design, **easy removal** and low weight (large image on the left). The head and footboards of the Puro are equipped with safe plug-in connections that can be easily unlocked (image 1). This technology ensures fast patient-centred care – especially in emergencies.

For tall patients, the mattress base can be extended to a convenient **length of 228 cm**. The bed extension can be unlocked and extended in only one easy action (large image on the right).

The **linen holder** underneath the footboard makes daily bed-making easy and provides a hygienic place to deposit the bed linen (image 2).





## MultiFlex<sup>+</sup> - safety sides

In addition to safety, during the development of the MultiFlex<sup>+</sup> safety side concept the focus was set on simple handling and **mobility support**.

The safety sides can be operated intuitively by care staff and lowered **with only one hand**. The side supports will then fold down in a smooth, cushioned movement. If the MultiFlex<sup>+</sup> safety sides are raised at

both the head and the foot end, they offer the same safety as full length safety sides. In addition, the individual segments and the guide ducts facilitate easy and protected routing of drainage tubes.

As an option, the Puro may also be equipped with **full length safety sides**.



## Helping to increase mobility

The fast mobilisation of patients is becoming increasingly important. MultiFlex<sup>+</sup> safety sides offer a **mobilisation support** at the centre of the bed. The ergonomically shaped support helps patients to sit up independently and provides additional safety for them (image 2 and 3). The mobilisation of the patient starts with sitting up to a seated position (image 1). The

**large height adjustment range** of the mattress base helps patients to get out of bed at an individually set height. At the same time, the height adjustment promotes **back-friendly working** during everyday care (large image on the left). In addition, the bed supports the prevention of falls in its lowest position.



## Digital assistance systems

Under the designation “**e-help**”, Stiegelmeyer develops digital assistance systems. These systems ensure a high standard of care and assist care staff at the same time.

One of the many options of our e-help technology is the provision of an **Out-of-bed-system**. This system, for example, uses a load sensor in the backrest of the

bed to detect when a fall-prone patient gets out of the bed. Through the connection to the in-house call system, care staff are informed automatically within a previously selected time frame. In addition, the automatic operation of the **under bed light** may be activated in the same way. This improves orientation in the dark and helps to prevent falls.

We develop our digital assistance systems continuously and upgrade them with new functions. In future, this will open up many new possibilities that will facilitate the daily hospital routine even further and integrate directly with the existing system.



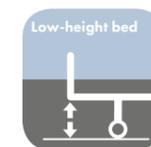




## Variant lino – even narrower

Hospital beds often have to function within restricted spaces. Small door frames, narrow corridors and limited patient rooms are usually real obstacles for standard beds. The Puro is also, therefore, available in the smaller variant lino. It has an **outside width of only 99 cm**. This makes moving the bed easier for care

staff and enables the bed to pass more easily through doors. Especially in narrow and restricted room situations, this offers significant advantages.



## Variant brevo – especially low

The adjustability of hospital beds to a low height is regarded as an important feature to avoid patient injuries due to falls. The brevo variant enables the mattress base to be lowered to a **height of only 28 cm**. This “low height” considerably reduces the risk of injuries in the case of a fall. An automatic intermediate stop at

a height of 41 cm makes it much more convenient for the patient to get out of bed. In addition, the Puro can be elevated to a convenient working height of up to 91 cm – offering an important advantage for tall care staff.



## Maintenance and servicing

The quality of the hospital bed also becomes apparent when necessary maintenance work is carried out. This is why we have positioned all sensitive and electronic components of the Puro so that they are well protected and still **very accessible**. As a result, the Puro is particularly easy to maintain and service.

The LCD handset can be attached to the bed in such a way that it is always in a **protected place**. As a result, it is safe from damage and always to hand when it is needed (image 1). Should the handset require to be exchanged, it is easy to replace through the readily accessible plug.

The bed's **control** and **battery** are arranged under a cover beneath the head end of the mattress base (image 2). Consequently, any necessary maintenance and repair work can be performed conveniently in a few easy steps. For smooth maintenance and quick error analysis, the LCD handset offers its own operation level for in-house and service technicians (image 4).

However, to prevent unnecessary failures right from the start, the Puro is designed in such a way that it offers all-round protection during the hectic daily routine.



## The Stiegemeyer-Group

The Stiegemeyer-Group stands for premium quality **hospital and care products**, developed specifically for the complex demands of medical practice. It includes the Clinic, Care, Homecare and Living divisions as well as the Assist service division. The company currently manufactures more than **125,000 beds** per year and employs some **1,000 members of staff**. The Group's headquarters are in **Herford, Germany**, and further production sites are located in **Nordhausen** in Thuringia, as well as in **Stolno** and **Kepno** in Poland. The medium-sized family business can look back on a 117-year history of success.

Despite being strongly rooted in its native country, the Stiegemeyer-Group is active worldwide. **Export** is one of its key pillars and is constantly being expanded. **Distribution companies** work in France, Poland, the Netherlands, Belgium, Finland and South Africa. Stiegemeyer products are exported to **more than 60 countries**.

Stiegemeyer focuses on state-of-the-art technology in its production and also respects the **conservation of the environment**.



Germany  
Herford, Nordhausen



Netherlands  
Elst



Belgium  
Hoegaarden



France  
Dardilly



Finland  
Lahti



Poland  
Stolno, Kepno



South Africa  
Cape Town

## The service at Stiegemeyer

Our high-quality beds are provided together with **first-class service**. This service includes the core tasks of **testing, repair, training and consultation**. We do this according to the wishes and requirements of your company. Over 50 people in our technical field service are available to conduct inspections, maintenance and repairs right at the customer's premises within Germany. Our service provides support and spare parts for all Stiegemeyer products for at least **15 years after discontinuation of the particular model**. An average of 7,500 articles are stored in our top-modern service centre, which features 3,000 square metres of storage space. Usually, these can be dispatched Germany-wide within 48 hours.



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## Dimensions and adjustment ranges



### Bed dimensions

- **Standard** and **brevo** variants  
External dimensions 103.5 x 218.5 cm / mattress base (mattress dimensions) 90 x 200 cm
- **lino** variant (narrow)  
External dimensions 99.5 x 214.5 cm / mattress base (mattress dimensions) 87 x 200 cm

### Mattress base heights

- **Standard** variant  
Height adjustment range with 150-mm castors approx. 35 – 91 cm, with 150-mm Linea castors 32 – 88 cm
- **brevo** variant  
Height adjustment range with 125-mm Linea castors approx. 28 – 84 cm, with 150-mm Linea castors 30 – 86 cm

## Head and footboards



### Rondo design

- With anodised **aluminium profiles**
- Exchangeable edge protection profile at the sides
- Headboard and footboard fully removable
- Secured to prevent accidental removal

- Decors from the Stiegemeyer Resopal collection

### Stelo design

- With sturdy **stainless steel profiles**
- Headboard and footboard completely removable
- Secured to prevent accidental removal

- Decors from the Stiegemeyer Resopal collection

## Safety sides



### MultiFlex®-safety sides

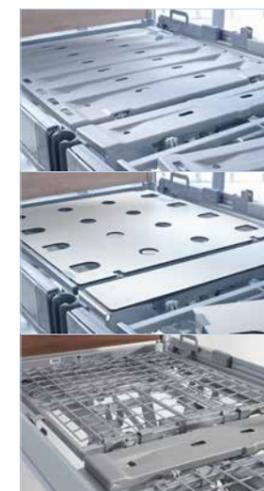
- 42 cm protective height above the mattress base
- Several intermediate settings
- Can be released and lowered with one hand
- Full-length edge protection

- including mobilisation support
- Safe routing of tubing in the safety sides' guide duct and protective LCD handset holder

### Full-length safety sides

- 42 cm protective height above the mattress base
- Several intermediate settings
- Full-length edge protection
- With movable LCD handset holder

## Mattress bases



### Hygiene mattress base

- Made of polypropylene
- Sections can be removed separately
- Water draining design
- Optionally with slots for belt systems

### Full plastic mattress base

- Made of HPL
- Sections can be removed separately, optionally secured in place to prevent removal
- Fitted with slots for belt systems
- Ideal for automatic reprocessing

### Steel mesh base

- Material steel
- Especially robust and durable
- Elements removable

## Castors

	<b>Integral castor</b> <ul style="list-style-type: none"> <li>• Ø 150 mm</li> <li>• Standard mattress base height: approx. 35 – 91 cm</li> </ul>
	<b>Steinco double castor</b> <ul style="list-style-type: none"> <li>• Ø 150 mm</li> <li>• Standard mattress base height: approx. 35 – 91 cm</li> </ul>
	<b>Linea double castor</b> <ul style="list-style-type: none"> <li>• Ø 150 mm</li> <li>• brevo mattress base height: approx. 30 – 86 cm</li> <li>• Standard mattress base height: approx. 32 – 88 cm</li> <li>• Ø 125 mm</li> <li>• brevo mattress base height: approx. 28 – 84 cm</li> </ul>

## Brake pedals

	<b>Brake pedal</b> <ul style="list-style-type: none"> <li>• Die-cast, chrome-plated</li> <li>• Tread surfaces with neutral colours</li> <li>• Available for all variants</li> </ul>
	<b>Brake pedal with coloured marking</b> <ul style="list-style-type: none"> <li>• Die-cast, chrome-plated</li> <li>• Tread surfaces with coloured marking</li> <li>• Available for all variants</li> </ul>

## Wall deflection rollers

	<b>Standard</b> <ul style="list-style-type: none"> <li>• Ø 100 mm, Ø 60 mm for lino variant</li> <li>• Heavy-duty solid material</li> <li>• Materials: outer layer PVC, inner layer polypropylene (PP)</li> <li>• including wall buffer cone</li> </ul>
	<b>Universal<sup>1)</sup></b> <ul style="list-style-type: none"> <li>• Ø 100 mm</li> <li>• Vertically and horizontally acting</li> <li>• Materials: polyamide (PA6), polypropylene (PP), TPE</li> <li>• including wall buffer cone</li> </ul>

<sup>1)</sup>not available for the lino variant

## Operational controls

	<b>LCD handset</b> <ul style="list-style-type: none"> <li>• 3 control levels (patients, nursing staff, technicians)</li> <li>• Extensive locking and setting options in normal operation and emergency situations</li> <li>• Direct error analysis at the technician control level</li> </ul>
	<b>Locking box</b> <ul style="list-style-type: none"> <li>• Firmly attached to the linen holder</li> <li>• For locking groups of functions</li> <li>• For setting to Trendelenburg position</li> </ul>
	<b>Control box</b> <ul style="list-style-type: none"> <li>• For locking and operating all individual functions</li> <li>• Emergency settings</li> <li>• Memory functions</li> </ul>
	<b>Control satellite</b> <ul style="list-style-type: none"> <li>• Easy to attach to backrest</li> <li>• Flexible arm for individual adjustments by the patient</li> <li>• Large symbols and easy to reach</li> </ul>
	<b>Foot pedal</b> <ul style="list-style-type: none"> <li>• Activated on LCD handset</li> <li>• Double-click function prevents accidental activation</li> </ul>

## e-help – digital assistance systems

	<b>Out-of-Bed system</b> <ul style="list-style-type: none"> <li>• Choice of 4 reaction times for the signal</li> <li>• Automatic activation option for under bed light</li> <li>• Controlled and activated with separate handset</li> <li>• Can be connected to existing call systems through open interfaces (see instruction manual for more information)</li> </ul>
	<b>Under bed light</b> <ul style="list-style-type: none"> <li>• Activated on LCD handset</li> <li>• Automatic activation on reaching the lowest mattress base setting and additionally at a mattress base height of 41 cm on the brevo variant</li> </ul>
	<b>Brake signal</b> <ul style="list-style-type: none"> <li>• Signal tone if brake released but mains cable not unplugged; this prevents the bed from being damaged or accidentally rolling away</li> </ul>

## Additional features

	<b>DIN standard rail</b> <ul style="list-style-type: none"> <li>• Along the front or along the side under the backrest</li> </ul>
	<b>Angle indicator for backrest and tilt</b> <ul style="list-style-type: none"> <li>• Angle indicator including an automatic stop at 30° (re-programming possible)</li> </ul>

# Technical Data

Dimensions and weights	Standard		Depth-adjustable	
	Puro	Variant lino	Variant brevo	combined with lino
External dimensions	103.5 x 218.5 cm	99.5 x 214.5 cm	103.5 x 218.5 cm	99.5 x 214.5 cm
Mattress base (mattress dimensions)	90 x 200 cm	87 x 200 cm	90 x 200 cm	87 x 200 cm
Bed extension	28 cm		28 cm	
Mattress base allocation	83 – 15 – 33 – 53 cm		83 – 15 – 33 – 53 cm	
Backrest length compensation	10 cm		10 cm	
Safe working load	260 kg		260 kg	
Maximum patient weight	approx. 220 – 230 kg		approx. 220 – 230 kg	
Floor clearance of chassis	16.9 cm		14.3 cm	
Floor clearance of chassis with Linea castor Ø 150 mm	14.1 cm		16.8 cm	
Total weight	approx. 155 kg		approx. 155 kg	
Protection height of safety sides	42 cm		42 cm	
<b>Adjustment options</b>				
Tilting into the Trendelenburg position	17°		17°	
Tilting into the reverse-Trendelenburg position	17°		16°	
Mattress base height	approx. 35 – 91 cm		approx. 28 – 84 cm	
Mattress base height with Linea castor Ø 150 mm	approx. 32 – 88 cm		approx. 30 – 86 cm	
Backrest angle	70°		70°	
Thigh rest angle	40°		40°	
Raised straight leg position angle	16°		16°	

# Decors

Snow White 9417-60	Azur 0744-60	Global Beech 4306-60	Noce Lyon 4232-60
Silver Grey 0160-60	Ottawa Maple 4209-60	Noce Praliné 4452-60	Baltic Sea D475-60
Gold 0446-60	Eternal Cherry 4325-60	Valley Oak 4166-60	Storm 10542-60

# Equipment and options

	Puro	
Mattress base heights	Standard adjustment range	●
	Depth-adjustable (variant brevo)	○
Outside bed widths	103.5 cm, mattress 90 cm (standard)	●
	99.5 cm, mattress 87 cm (variant lino)	○
Safety sides	Full length	●
	MultiFlex*	○
Design of head- and footboards	Rondo	●
	Stelo	○
Base colours	Crystal white NCS S0500N	●
	Argentum similar to RAL 9006	○
Decontamination, degree of protection	Manual reprocessing, IPX6	●
	Automatic reprocessing, IPX6W	○
Mattress bases	Hygiene mattress base PP	●
	Hygiene mattress base PP for belt system	○
	Mattress base of full plastic for belt system	○
	Steel mesh base (removable or non-removable)	○
Wall deflection rollers with wall buffer cone	4 standard, circumferential	●
	4 universal, circumferential <sup>1)</sup>	○
	2 universal at head end, 2 standard at foot end <sup>1)</sup>	○
Castors	Integral castor Ø 150 mm	●
	Steinco double castor Ø 150 mm	○
	Linea double castor: Ø 150 mm	○
	Linea double castor Ø 125 mm (only variant brevo)	○
5 <sup>th</sup> castor	Double castor Ø 125 mm (not for variant brevo)	○
Conductive castor coating	1 castor	●
	2 castors	○
	4 castors	○
	5 castors	○
	5 castors	○
Brake pedal	Die-casting, chrome-plated	●
	Die-casting, chrome-plated with colour coding	○
Track roller positions	Head end, right	●
	Head end, left	○
	Foot end, right	○
	Foot end, left	○
	Centre of the bed	○
Operational controls	1 LCD handset	●
	2 LCD handsets	○
	LCD handset with locking box in the linen holder	○
	LCD handset with control box in the linen holder	○
Out-of-bed system	Yes	○
	Yes, including under bed light	○
Further equipment	Sliding rail at head end	○
	Sliding rails at the side under back rest	○
	Backrest damping	○
Electronic equipment	Backrest angle display	○
	Foot pedal	○
	Brake signal	○
	Under bed light	○
Battery	Control satellite	○
	Lead-acid battery	●
	Lithium-ion battery	○

1) Universal wall deflection roller only possible with standard width

● = standard ○ = optional

Ihr Bett – unsere Leidenschaft  
Your bed – our passion

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