Hospital beds · Hospital furniture
Far from home, we all know that wonderful sense of well-being when we enter an inviting hotel room. We ask ourselves: “Why can’t a hospital room evoke the same welcoming feeling?”

In the past, hospital design was dictated mainly by functional and technical requirements, with the aesthetics of a patient’s surroundings often secondary. In the past few years, due to changed nursing philosophy, completely new ideas about healthcare settings, and discriminating patients, there has been a demand for more appealing surroundings – leading to a revolution in the design of hospital beds and furnishings. This movement supports long-accepted scientific studies showing that pleasant surroundings promote a sense of well-being, while unpleasant surroundings cause frustration and add stress. The most important goal of further development of Völker hospital beds therefore has always been: to design hospital beds as fine furniture that, together with other furnishings, creates a truly private atmosphere with the ambience of a comfortable hotel room – without any loss of functionality.

This is why we visited hospitals, questioned technicians and hygiene experts, and conferred with nurses, doctors and particularly patients. In this way, the Völker hospital bed has become a successful synthesis of health-promoting design and independence promoting functions and therefore is a real asset in the healthcare industry. After exhaustive research and product development, we are proud of our most recent innovation: the new Völker MIS® Microstimulation System, which dramatically increases patients’ lying comfort and additionally contributes to Decubitus prevention and which will supplement effective Decubitus therapy in the future by means of MIS® Activ.

Better positioning and better lying comfort, individual positioning and more individual security are only some of the features that distinguish Völker hospital beds. With these characteristics alone, they are already a really good recommendation. We invite you to see for yourself!

Heinrich Völker
Chairman of the Executive Board

Get well soon.
Some hospital beds are designed with scissors mechanisms, levers, springs, cables and are covered with decorative plastic. Not Völker hospital beds. Our aim has always been to produce a bed that gives patients a real sense of well-being – in short, a bed that promotes wellness and fast recovery. That’s why Völker hospital beds look like residential beds. And that’s why, with complementary furniture, hospital rooms can truly be as welcoming as a hotel room.

With Völker hospital beds, design can be a multifaceted strategic investment for your facility. They help you not only impress patients and make life easier for staff, but also save on costs.

Völker hospital beds are modularly conceived. The three basic versions S 960-2, S 961-2W and S 961-1 can be utilized in configurations appropriate to their location and purpose. For example, the total functionality of the S 961-1 makes it suitable for use in all departments, including intensive care. In this way, it can dramatically reduce the need for special-purpose beds.

Völker hospital beds are manufactured according to a completely new design concept. All technical components are housed in sealed units. This means less maintenance and fewer repairs – keeping the need for reserve beds to an absolute minimum.

Fewer subassemblies, watertight motors, moisture-resistant components, low maintenance with faster turnaround and a minimal need for repair, combine to produce big savings in operating and add-on costs. Our beds feature telescopic height adjustment with sealed components that allow for infinite lying surface positioning. Smooth surfaces, sealed units and non-rusting materials instead of tubular or angle steel promote easy and efficient cleaning. In addition, the extensive use of light weight aluminum and other composite materials on Völker hospital beds makes transporting them a breeze. And our “hygienically smart” beds are easy to repair and spray disinfect.

Völker hospital beds offer even greater savings because they facilitate decentralized cleaning and disinfection. The fact that they are fully operational even when disconnected from the main power supply further facilitates access and makes these beds more convenient to work with.

As a result of all these benefits, Völker hospital beds optimize your investment, as well as the care of your patients.
As a result, microcirculation in the tissue is maintained, pressure points on the skin are avoided and the structure of capillaries is preserved. Maintaining skin circulation prevents pressure sores and helps in their treatment.

To achieve these outcomes, Völker has developed a new pressure reducing system, the Völker MiS® Micro-stimulation System. It is made up of three spring components that together respond dynamically and ultra-sensitively to reduce pressure and maximize comfort.

*Basal stimulation*, as an accepted healthcare concept, aims to promote sensory perception, movement and communication.

In the case of pressure sore prevention, promoting movement is the most important aspect of basal stimulation. Movement can take place only when the body receives sensory input, which is then processed by the central nervous system and converted into a reactive response, like movement.

Movement has a variety of positive effects on a person’s body and state of mind. Concerning pressure sores, physical activity causes the pressure being applied to high-risk or already-affected parts of the body to constantly shift.
Völker MiS®: Proven to prevent and treat pressure sores.

The new Völker MiS®
Micro-stimulation System.

The Völker MiS® is made up of three spring components that – in combination with the lying surface positioning functions (see p. 19) and appropriate mattresses (see p. 9) – comprise an effective system for the prevention and treatment of pressure sores.

The first of the three spring components of the lying surface are the butterfly springs, which are distributed over the entire upper surface. The high number of moving points ensures a pleasant sensation that promotes comfort when lying down. The butterfly springs are made of a recyclable plastic with high elasticity and shape retention. The springs’ torsional mobility (the capacity to move and turn) makes them exceptionally conforming, regardless of the patient’s body shape, lying position and posture.

The butterfly springs are removable and freely adjustable on the second component of the Völker MiS® system – the flexible support profiles manufactured from fiberglass-reinforced plastic (GfK). Compared with conventional slatted, pan or wire spring designs, our fiberglass-reinforced plastic support profiles – with their cross-sectional elliptical form and their springs – significantly improve the capacity to reduce pressure and maximize comfort.

The support profiles are connected to the sides of the aluminum lying surface frame by means of suspension units, the third component of the MiS® system.

An optimal torsional angle is ensured by mounting just one support profile on a single suspension unit. In addition, there is a TPE module inside the suspension units that both fixes the unit to the aluminum frame and gently dampens excessive compression under heavy loads.

Illustrations on this page:

The Völker MiS® is a pressure reducing system in which various components maintain and promote patients’ independent movement:
1) butterfly springs
2) support profile
3) suspension unit
4) lying surface frame

The lying surface is made up of butterfly springs, which distribute pressure evenly across the entire surface. Patients are automatically correctly positioned and their quality of sleep improves.

Illustration right:
Pressure map readings confirm the highly beneficial degree of pressure reduction achieved by the Völker MiS® Micro-stimulation System.

The pressure distribution of a human body on a bed can be measured electronically. The degree of pressure exerted on an underlay is measured by flexible electronic sensors and the test results are transmitted to a screen. The comparative test shown on the next page made use of a test subject weighing 160 lb. (75 kg).

The result demonstrates the far superior pressure reduction achieved by the Völker MiS® Micro-stimulation System – well below the critical limit at which capillaries collapse and give rise to pressure sores.
Völker mattresses: Layers of comfort, hygiene and durability.

The right mattress is vital.

Völker mattresses meet all healthcare requirements, from comfort to effective pressure reduction. We use materials of only the very highest quality. All foam materials are hygienic, dust free and resistant to distortion and the effects of age. Their open-cell structure promotes high elasticity and resistance to the effects of climate.

The multilayer Rubex® Finess mattress features additional upper and lower layers wrapped around the mattress core – which control air and moisture exchange very efficiently by means of a special wave cut. The result is a mattress that “breathes” more effectively.

Viscoelastic soft foam used in the Völker Plus mattress enables it to give under pressure and then to return gradually to its original form when pressure is relieved.

This capability enables the mattress to adapt exactly to the natural curvature of the body, retain its shape under pressure, and distribute or relieve pressure regardless of load.

Pressure distribution characteristics of a patient lying on the hard lying surface typical of hospital beds and a standard mattress. Pressure distribution characteristics of a patient lying on the Völker MIS® Micro-stimulation System and a Völker Plus mattress.
Four years after the opening of Children’s Hospital Foundation at Westchester Medical Center in Valhalla, N.Y., Executive Director Bruce Komiske can attest to the strategic benefits of investing in high-quality design.

The number of ambulatory and emergency care patients has risen 25%, the market share has increased by more than 20%, and annual donations have grown from $125,000 to $1,500,000.

Völker hospital beds and furniture introduce a beneficial ambience into hospital rooms.

Studies carried out during the past few years show that there is a significant correlation between psychologically appropriate design and the signs of fast recovery.

Faster recovery.

The Völker hospital beds, in the model “S”, with pagami blue headboards/footboards complemented by matching Völker K 984t bedside cabinets, in background with extended and raised table.
The reaction of patients to their environment is influenced by a combination of psychosocial impulses and psychobiological predisposition. These influences can result in elevated stress or a self-questioning sense of well-being.

Völker hospital beds and furniture create a better environment for your patients.

In its new building, the Detroit Medical Center in Michigan made use of all interior design possibilities to increase cancer patients’ sense of well-being. It was found that patients moved from the old building into the new one needed 54 percent fewer painkillers after receiving wellness treatment.

Völker hospital bed, in the model “MB”, with pagami blue headboard/footboard complemented by a matching Völker K 984 bedside cabinet and a AT 82/7 table with two Völker AS 985 aluminum chairs.
A pleasant recovery.

You can ask, “Why do people become ill?” or – conversely – “Why do some people enjoy good health in spite of a demanding lifestyle?” These questions suggest that psychological factors influence individual health.

Völker hospital beds and furniture are designed to encourage the recovery process.

Dr. Alan Dilani, cofounder of the International Academy for Design and Health, said, "An awareness of the causes of good health requires design concepts that promote well-being. The quality and nature of a patient’s environment should be seen as effective instruments for supporting and improving recovery.”

Völker hospital beds, in the model “S”, with headboards/footboards in royal maple laminate complemented by matching Völker K 984k and K 984kt (front) bedside cabinets. Group of seats with S 550 highback at AT 80/7 table accompanied by refrigerator unit with WA 3140 absorption refrigerator.
“All hospital rooms shown in this brochure are representative of possible room layouts in a hospital (see the floor-plan). They illustrate the realization of design based on supporting recoveries.”
A positive environment promotes communication and contact between staff and patients, giving both a sense of security. For staff, this means a predictable and friendly working atmosphere in which tasks become easier, more result oriented and, therefore, more satisfying.

Völker hospital beds and furniture provide the right environment for patients and caregivers.

Until now, hospitals have given little thought to the quality of working conditions according to Rosalyn Cama of CAMA Inc., Center for Health Design. The result? Often, nursing staff do not just give up their job, but leave the profession. As part of design-related restructuring, the Barbara Karmanos Cancer Institute created a new working environment for its nursing staff so successfully that turnover fell from 23 percent to under 4 percent. At the same time, patients’ rooms were refurnished to accommodate relatives staying overnight.
**Height and lying surface controls. Facilitate care and independence for patients.**

**Völker S 960-2 hospital bed:**
All functions of Völker hospital beds can be accessed at the foot end of the bed. A nurse control unit accomplishes this and is integrated into a slide-out drawer or (optionally) into a slide-out bedding storage shelf. Height and lying surface positioning can be adjusted, including Trendelenburg/reverse-Trendelenburg and comfort position. In addition functions can be locked out.

**Völker S 961-2W hospital bed:**
The S 961-2W can be placed into automatic washing systems and includes a nurse control panel waterproof to IPX 6 (Illustration above). It is integrated into a slide-out bedding storage tray and as an alternate location can also be attached above the footboard (see Ill. above), or to an assist rail at the foot end of the bed. Height and lying surface positioning can be adjusted, including Trendelenburg/reverse-Trendelenburg and comfort position. Adjusting functions can be locked out independently or all at once with a hand control lock out button. One button activation of features such as transport, cardiac chair (see Ill. below), and return to normal are included for convenience. Voltage and battery back-up status indicators are included.

**Völker S 961-1 hospital bed:**
The S 961-1 can be placed into automatic washing systems and includes an LCD nurse control panel waterproof to IPX 6 (Ill. above). It is integrated into a slide-out bedding storage tray and as an alternate location can also be attached above the footboard (see Ill. above), or to an assist rail at the foot end of the bed. Height and lying surface positioning, including Trendelenburg/reverse-Trendelenburg and comfort position. Adjusting functions can be locked out independently or all at once with a hand control lock out button. Automatic positioning buttons allow the attendant to achieve shock, cardiac chair, reanimation, transport, cleaning and return to normal positions by pushing the auto button and the desired function. An LCD display provides battery level, degree of incline for head, foot, and lying surface (Trendelenburg/reverse-Trendelenburg) positions, as well as bed height. Parameters for positioning adjustments (based on patient), as well as technical data (bed ID and service dates) can be stored in the caregiver keyboard.

**Hand control unit:**
Hand controls are available in horizontal configuration that mount to the assist rails (see Ill. above) or in a verticle configuration (see Ill. below) that hook to the bedside or mount on a (optional) flexible hand control holder. Patients can adjust lying surface functions including: height adjustment, head/leg adjustment and comfort positioning thereby achieving greater independence. Depending on bed model, the hand control can be completely locked out or individual functions can be locked out.
Length- and height-adjustable assist rails: Protection and freedom for patients.

The assist rails on Völker hospital beds, when not in use, hide away beneath the lying surface. They are divided into four sections so that they can be used in a variety of configurations, as required. They can be raised in two positions according to the degree of protection required – maximising patient safety. When raised to the low position, the rails provide an ideal assist. When telescoped to the high position they provide additional protection. The four sections of the Völker assist rails automatically reposition during lying surface adjustment – maintaining the required protection in all lying surface positions as well as when changing position.

Exceptionally strong, the assist rails on Völker hospital beds are ideal aids for patient independence and can also be used as an extending shelf or for therapeutic positioning (see Illustration on the left). Last but not least the Völker assist rails in terms of shape, dimensions and constructional clearances fulfil FDA recommendations (and the current international draft regarding the new standard for medical beds) as well as the latest recommendations on Downfall Prophylaxis made in the Experts’ Standard.

Side rails on hospital beds are important pieces of equipment. Their main function is to safeguard patients who need protection. For this reason, assist rails must be extremely strong and designed so that they cannot cause injury when in use.

In addition, the use of assist rails is important when carrying out nursing procedures at working height. This is a great benefit of integrated two-part side rails or “assist rails,” whose individual sections can be raised, as is required.

And finally – as the name says – assist rails are essential for patients to achieve individual independence.

The two-part assist rails of Völker hospital beds are split in the middle to form a central opening that is wide enough for patients to leave the bed unaided. This design avoids falls and fall-related injuries caused by patients trying to climb over full length side rails. If appropriate – for example, in the case of mentally compromised patients – the central opening can be completely closed by means of a slide-in spacer (illustration below).
The exceptionally sturdy assist rails on Völker hospital beds act as a valuable aid to patients' independent mobility. By providing ideal support for patients, they also promote a psychological and physical sense of security when sitting on the edge of the bed or getting into or out of bed. By coordinating the lying surface functions “Raise back section” and “Adjust height” with the hand control unit, patients can move without calling for help. The sufficiently wide central opening between the two assist rail sections on either side of the bed provides a space that is softly padded by the mattress.

Illustrations 1–6: When lying down, the head-end section is raised to the low position providing a bed edge indicator (1). To sit up, the back section of the lying surface is slightly raised by means of the patient hand control unit (2). The extremely strong assist rails are a big help when raising the upper body and turning around to get out of bed (3). To reach the floor, patients can use the hand control unit to adjust the height of the bed according to their individual needs (4–5). At the ideal height, patients can stand easily (6).
Assist rails: Benefit caregivers.

In recent times, side rails of one type or another have become an integral part of high-quality hospital beds. Although their main function is to stop restless patients from falling out of bed, they are also intended to give patients a feeling of security by defining the outer limits of their bed. A variety of side rail designs are now available, all with individual strengths and weaknesses.

Völker offers a unique and complete assist rail system. This means that they can meet all requirements for dignity without giving up the option of a side rail for those who need it. Völker assist rails hide away when not needed, providing a normal appearance for those not requiring assist rails. No one will even know they are there.

When assist rails are needed they can be used incrementally as required by the patient. For example, in the low position they can act as a bed edge indicator or an assist. In the high position they can help to position the patient or provide an assist handle. Offering as much safety as necessary, and as much freedom as possible.

To Völker, safety and mobility, independent activities and individual safety are not mutually exclusive.

In addition, the dimensions of the assist rails on Völker hospital beds have been carefully chosen to avoid any risk of injury through entrapment. Völker assist rails are so safe that they meet or exceed most healthcare guidelines and recommendations. The rails are designed according to the latest ergonomic knowledge, and comply fully with the DIN EN 60601-2-38 norm (regulations governing the design of hospital beds).
Illustrations 1–5: Völker assist rails are easy to use:
To raise, the assist rail is pulled out of the lying surface to the low position (1). Then it is swung upward to mattress level with one movement of the hand (2). In this position, the rail protects against rolling out of bed and assists with independent mobility (see p. 23, Illustrations 1–3). To telescope to the high position, the rail is simply lifted upwards to the top (3). To lower, push the release buttons on the sides of the handrail (4). A wide lower release bar allows the rail to be rotated and slid below the lying surface (5).

Illustrations 6–8: Völker assist rails relieve caregivers’ workload:
When pulled out horizontally to the side, the rails create a useful shelf for bedding or pillows (6). Regardless of the positioning needs, the assist rails provide flexibility, support and additional protection even when raised to only the low position (7–8).
The advanced design of Völker hospital beds provides comfort, functional utility and ease of operation and requires very little maintenance. What looks so simple and elegant is in fact the result of many years of practical experience, a thorough knowledge of daily routines in hospitals, a close familiarity with the wide-ranging wishes and concerns of patients and caregivers, and the product of the very finest engineering skill. Therefore, the qualities and refinements that distinguish the S 960 hospital bed are a cooperative achievement of Völker’s own development department and of Porsche Engineering in Weissach, Germany. Comparing a Völker bed with any other hospital bed makes our quality very apparent. Völker hospital beds are designed to be efficiently disinfected. They have as few subassemblies as possible without any exposed mechanical parts and excess wiring. All motors are located in watertight encased assemblies, and all individual parts are made of aluminum, stainless steel or plastic.

All outer surfaces are as smooth as possible, and all materials are easy to clean and care for.

Only maintenance-free motors and electric/electronic components are used. All moving parts of the height adjustment jack, the compact motors and the assist rails are permanently lubricated. This means that in normal use and with normal cleaning they never need lubrication. Because of the technology used, preventative maintenance inspections are necessary only once every 12 months or in accordance with the checklist.

These technical features also have many benefits for bio-tech staff and housekeeping, including reduced cleaning time and less need for maintenance and repair. And in the unlikely event of malfunction, complete subassemblies can easily be exchanged.

Völker hospital beds offer a crucial innovation, developed in cooperation with Porsche Engineering. The entire lifting and drive unit has been removed from the framework and transferred to a crossmember. The cast component holding the frame is completely sealed against moisture penetration. A telescopic jack, integrated into each of the bed’s four legs, is maintenance free and built into a stainless steel outer column. The two synchronized motors (24V low voltage) for parallel height adjustment are equipped with a synchronization control that corrects the smallest deviations and returns the lying surface from Trendelenburg or reverse-Trendelenburg to a true horizontal position.

Illustration right: Völker S 961-2W hospital bed

Völker hospital beds are also designed for low maintenance.
Völker hospital beds: Everything a hospital bed should be.

1. New design concept for a very appealing visual appearance offering many design choices.
2. Control of bed functions by nursing staff via a central nurse control panel.
3. Patient operation via a hand control unit with user-friendly operation.
5. Completely enclosed three-stage telescopic height adjusting legs are integrated into enclosed cross members and drive motors.
6. Comfort seating position can be selected via patient or nurse control unit/panel.
7. Trendelenburg position up to max. 14° can be selected via central caregiver keyboard.
8. A synchronization control unit maintains the horizontal height adjustment.
9. Four-caster central braking system via brake pedal at foot end.
10. For straight-ahead tracking one caster can be locked by means of the brake pedal.
11. Easy to change casters can accommodate various floors as required.
12. Lying surface with integrated pressure reduction. Völker MIS® Microstimulation System for effective pressure sore prevention. Optionally available with the HPL lying surface. Either lying surface is easily removed for cleaning.
13. Infinite lying surface positioning is achieved using two separate motors for the back and upper leg sections. The S 961-1 hospital bed includes a third motor for positioning of the lower leg.
14. Lying surface length: 78 1/4 in. (200 cm) or 82 1/2 in. (210 cm) standard with model S 961-1; Lying surface width: 35 1/8 in. (90 cm) and 39 1/8 in. (100 cm) (see Table on page 34).
15. Lying surface (4-sectional), ergonomic back section in a length of 35 1/8 in. (90 cm).
16. Head section can be adjusted to a maximum angle of 70°, upper leg section to a maximum angle of 45°. For safety reasons, the angle between back and upper leg section will not become less than 90°.
17. Mattress compensation included with every bed to protect the patient from compression when adjusting the back section and leg section at the same time. Sliding toward the footboard is also minimized, with the compensation via a ramp forming a kinesthetic space.
18. CPR quick release of the back section activated by lifting a handle (see previous photo). CPR release automatically resets after use.
19. Two-part assist rails on both sides that can be raised to use as a low assist or bed edge indicator and then telescoped upward for greater protection.
20. Head and foot boards slide into the frame and quickly remove.
21. Support for Trapeze bar integrated into the head of bed frame (two options available).
22. Integrated track along both bed sides offers flexible mounting locations for accessories.
23. Wall-protection rollers on all four bed corners with integrated socket for mounting IV poles or other accessories.
24. In all, the sealed construction of the hospital bed, its compact workings and smooth surfaces make it easy to clean and largely maintenance-free.
Head and foot boards can be quickly removed and replaced.

Sockets for IV poles on both sides of the head and foot end of the bed.

Wall-Protection on all 4 bed corners.

Control via nurse control unit/panel.

Trendelenburg positioning via caregiver keyboard.

Comfort seating position can be selected by patient or from nurse control unit/panel.

4-section lying surface that can be independently positioned and removed for easy cleaning.

Lying surface with pressure-reducing Völker MiS® Micro-stimulation System.

Four caster central braking.

Casters.

Sockets for IV poles on both sides of the head and foot end of the bed.

Two-part assist rails can be raised to low and high position.

Trapeze bar mounting at the head of the bed.

CPR quick release of the back section.

Three-stage telescopic height adjustment.

Synchronization control unit.

Accessory tracks on both sides of bed.

Mattress Compensation.

Hand control unit.

Straight-steering activated by the brake pedal.
The advantages of electrically operated hospital beds are beyond dispute. Push-button adjustment means individual independence for patients and significant time savings for caregivers.

As dynamic medical products, Völker electrical hospital beds have been designed and manufactured according to the medical products law (MPG) and all rules, regulations, standards and best practices governing modern technology (see Technical description, page 32). The result is that, as much as is humanly possible and with correct operation, no dangers will result from their proper use.

The S 961-1, for example, is equipped with 10 protective measures that are synchronized in such a way that if one fails – which under normal circumstances is virtually impossible – then another protective measure kicks in.

Motors and electrical safety.
10 protective measures plus IPX 6 (if required).

Protective measures on the Völker S 961-1

1. Zero potential leakage due to main power (mains) supply cut-out.
2. Primary fuse in power plug: protection against the slightest malfunctioning.
3. Intelligent charging electronics: no overheating, no overloading.
4. Additional strain-relief devices on bed frame and motor casing.
5. Battery operation: independent of main power, no electric magnetic fields, no heat buildup.
6. Cut-out against overheating.
7. Overload fuse: no electrical or thermal overloading.
8. UL-listed material for casings and plastic covers.
9. Watertight according to IPX 6.
10. Nurse control panel with specialized functions: lock-out of individual functions, limit of travel, etc.
Völker Model selection

The new modular system used for all Völker hospital beds makes it possible to offer a wide choice of headboard and footboard designs. In addition to the choices shown on this page, other selections are available according to customer requests and the ideas of the associated interior designers.

In this way, Völker seeks to satisfy the requirements of hospitals that regard health-promoting design as a strategic investment and wish to fulfill the demands of tomorrow’s patients today.

With these design possibilities – in addition to technical perfection and exemplary quality – Völker again makes great strides toward our ultimate goal of providing the best hospital beds available.

Völker model design S

Völker model design MA

Völker model design MB

(Can be disinfected; under certain conditions in automatic washing systems.)
Völker Color selection

Wood laminate finishes
The wood laminate finishes for all Völker furniture are scratch, impact and friction resistant, as well as impervious to common chemicals. All laminates are manufactured in accordance with DIN 68765, Emission Class E1.

Deco-Fantasia laminates
Deco-Fantasia laminates are made from high-pressure laminated board (HPL) and are highly scratch, impact and friction resistant, as well as impervious to common chemicals. All boards are manufactured using a high-pressure process according to DIN EN 438.

Royal Maple  Golden Alder  Fine Cherry-wood  Mahogany  Light Oak  Walnut

Pagami Blue  Wendy Creme  Fine Light Anthracite
Technical description:
S 960 hospital beds:

All Völker hospital beds are developed and produced according to the latest international regulations and standards. The implementation of these regulations and standards provides the basis for the CE Declaration of Conformity. Detailed risk analysis and risk minimization studies are carried out in addition to the formal requirements. Völker hospital beds conform thereby to the specifications of 93/42/EEC (European guidelines for medical products), DIN ISO 60601-1 (General regulation for the safety of medical devices); DIN ISO 60601-2-38 (Special regulation for the safety of electromedical hospital beds with its appendices concerning side rails and accessories); DIN ISO 60601-1-2 (Electromagnetic compatibility); DIN ISO 60601-1-4 (Supplementary standard for programmable electromedical systems) as well as UL standard 60601, designating compliance with applicable United States and Canadian safety standards. Compliance with these standards is confirmed by independent, internationally recognized inspection agencies.

Warranty:
24-month warranty on all hospital beds (refer to specific warranty according to country).

S 960-2 model hospital beds:

The entire bed is protected according to IPX 4 (water splashing from all sides).

Undercarriage/ready-to-go mobility:
Strong, easy-to-clean, and corrosion-free aluminum profile design, powder-coated and impact resistant. Chemicals- and shock-resistant. Clearance below the undercarriage is 7 1/5 in. (18.5 cm) for passing X-ray devices as well as patient lifts under the bed from the side. Clearance underneath the lifting jack columns is 1 1/2 in. (4 cm) depending on the type of heavy-duty castors (diameter 6 in. (150 mm), 3-stage spindle telescopic height adjustment unit, encased maintenance-free. Two synchronized motors (24V low-voltage operation) for parallel height adjustment with electrical control (synchronization control unit). Adjustment range from 15 to 31 1/2 in. (40 to 80 cm) in 26 seconds. Trendelenburg/reverse-Trendelenburg positioning to 12° via control box. Wear resistant 6 in. (150 mm) single casters, electrically conductive, (non-marking) and precision ball bearings for easy maneuverability. Load-carrying capacity 100 kgs per caster. Four-caster central braking system, straight-steeering with caster alignment via brake pedal at foot end. Safe working load: 463 lb. (210 kg).

Lying surface:
Electrically adjustable four-section lying surface with antistatic, chemical-resistant and UV-resistant aluminum profile wraparound frame. The four-part MiS® Microstimulation System can be fully removed – with every pressure reduction system. Optimized mattress holders on each side. Ergonomic configuration of back, seat, upper/lower leg sections according to German Nursing Association (DBfK) with 35 3/8 in. (90 cm) back section. Integrated mattress compensation [4 3/4 in. (12 cm) and back section ramp (5 degrees)] for physically correct adjustment of back section (kinesthetic space). With sliding down bed prevented, pressure on stomach is avoided and breathing is improved. Back (0–70 degrees) and upper leg section (0–45 degrees) individually adjustable with safety override device. Pre-set leg section positioning (bent-knee or raised lower leg positions). Additional manual adjustment of lower leg section for raised extended leg position (0–16 degrees) can be adjusted through a continuous Hydro Lift Adjustment Unit (gas spring). Emergency quick lowering of back section for CPR. Angle limitation between back and leg sections below 90 degrees to protect against compression. Location for attaching trapeze at head of bed, locations for IV poles, etc., at head and foot of bed on both sides. Integrated slide bars the entire length of both sides for flexible mounting of accessories. Fast removal of headboard/footboard.

Pressure reduction:
A. Völker MiS® Micro-Stimulations-System System is an anti-pressure sore, torsion-sprung support surface made up of flexibly reactive butterfly springs in recyclable polyoxymethylene located on flexible fiberglass-reinforced plastic (GFK) support profiles with high stability and bending strength. The support profiles are connected to the surface by flexible spring elements. TPE modules (thermoplastic elastomer) muffle spring compression of support profiles under heavy loads and attach the spring elements to the aluminum profiles of the frame. Butterfly springs and support profiles are easily removable for cleaning.

B. HPL: High-pressure laminate, solid-core board in-laid sections (optional).

Operation by patients:
Ergonomic, easy-to-read hand control unit for adjustment of lying surface, height and comfortable sitting position. Hand control unit can be put in a flexible holder (optional) or clipped on the assist rail.

Operation by caregivers:
Nurse control unit as standard (with surfaces easy to clean/disinfect), integrated into a drawer located at the foot end or optionally into the bedding storage. Functions for lying surface positioning and height adjustment (as per patient hand control unit), in addition to Trendelenburg/reverse-Trendelenburg, lock-out of functions.

Electric/control:
Integrated protected control built into motor housing tested according to DIN ISO EN 60601-1 and 60601-1-2. Four motors, safety class II (double protective insulation), main (mains) power 110V (230V), operating voltage 24V; main (mains) power cut-out, with no electric magnetic fields, no heat buildup, long service life of motors. Primary fuse (2A) in main (mains) power plug. Extra-sturdy spiral power cable complying with national and international norms. Two-fold cord strain relief, plus intermediate connector for easy maintenance. Thermal fuse and switch
Völker hospital beds need little maintenance, since only maintenance-free motors and electric or electronic components are used. All moving parts of the height adjustment unit, compact drive and assist rails are permanently lubricated, requiring no additional lubrication in normal use and cleaning. Because of the technology used, technical inspections/tests are only necessary once every 12 months or according to checklist. Encased subassemblies and smooth surfaces make Völker hospital beds easy to clean with standard commercial disinfectants and cleaning agents.

Care and maintenance:
Völker hospital beds are designed to be easy to clean and maintain. All moving parts of the height adjustment unit, compact drive and assist rails are permanently lubricated, requiring no additional lubrication in normal use and cleaning. Technical inspections/tests are only necessary once every 12 months or according to checklist. Encased subassemblies and smooth surfaces make Völker hospital beds easy to clean with standard commercial disinfectants and cleaning agents.

Illustration above: Nurse control panel in bedding storage and clipped on the assist rail

For lying surface, pressure reduction system, operation by patient (S 961-2W is optionally available with two hand control units), assist rails, styles, maintenance and care, refer to previous Technical Description for Völker S 960-2.

Undercarriage/read-to-go mobility:
Sealed, easy-to-clean and corrosion-free design. Surface is powder-coated or anodised. Resistant to chemicals. Clearance below the undercarriage is 9 1/5 in. (23 cm) above lying surface [9 in. (23 cm) above standard mattress]. Extra height assist rails (optional) with height of 16 1/5 in. (41 cm) above lying surface for use with powered air mattress systems. Easy operation and locking. For safety reasons, lock cannot be released under load. Special plastic side bumpers for impact protection. Flexible tolerance in event of overloading; no sudden breaking of guides or assist rails. Permanently lubricated for smooth operation without additional lubrication.

Assist rails:
Two-part split aluminum profile telescoping assist rails with rounded corners and edges. Integrated into lying surface when not in use. Unobstructed access to patient or for attaching accessories at any position. When fully raised, no change in outer dimensions of bed. Increased safety through automatic repositioning of assist rails during lying surface adjustment. Suitable for therapeutic and storage purposes. Height adjustable in two positions: first position marks outer limit of bed and acts as aid to mobility, second position provides full protection against accidental falls. Secure hand grip between two-part rails when getting into/out of bed. Excellent aid to mobility in combination with height adjustment capability. Protection, height and opening dimensions according to national and international norms. Standard height 13 1/5 in. (35 cm) above lying surface [9 in. (23 cm) above standard mattress]. Extra height assist rails (optional) with height of 16 1/5 in. (41 cm) above lying surface for use with powered air mattress systems. Easy operation and locking. For safety reasons, lock cannot be released under load. Special plastic side bumpers for impact protection. Flexible tolerance in event of overloading; no sudden breaking of guides or assist rails. Permanently lubricated for smooth operation without additional lubrication.

Design and materials:
Design of headboards and footboards, and colors from standard model options according to Völker color card or – in appropriate order volumes – according to customer requirements. Lying surface with heavy-duty side protection. Horizontal wall-protection wheels on all four corners, two vertical wall-protection wheels at head of bed.

Care and maintenance:
Völker hospital beds need little maintenance, since only maintenance-free motors and electric or electronic components are used. All moving parts of the height adjustment unit, compact drive and assist rails are permanently lubricated, requiring no additional lubrication in normal use and cleaning. Because of the technology used, technical inspections/tests are only necessary once every 12 months or according to checklist. Encased subassemblies and smooth surfaces make Völker hospital beds easy to clean with standard commercial disinfectants and cleaning agents.

Illustration above: hospital bed model S 961-2W

S 961-2W model hospital beds:
Entire bed protected according to IPX 6 (protected against high-pressure hose water).

Electricity/control:
Two lying surface positioning motors (one each for back section and upper leg section) main (mains) power 110V (230V), motors safety class II (double protective insulation), secondary operating voltage 24V, integrated protected control built into motor housing tested according to DIN ISO 60601-1, 60601-1-2 and 60601-1-4. Main (mains) power cut-out, with no electric magnetic fields, no heat buildup, long service life of motors.

Primary fuse (2A) in main (mains) power plug. Extra-sturdy spiral power cable complying with national and international norms. Two-fold cord strain relief, plus intermediate connector for easy maintenance. Secondary fuse in low-voltage circuit. Polyswitch against overloading. Motor housing in nonflammable, self-extinguishing material. Emergency lowering by QV battery. 3.3 Ah battery pack for independent power operation, enough for ten adjustment cycles under maximum permitted load.

Operation by caregivers:
Nurse control panel for nursing staff, integrated into bedding storage; can be attached to HPL board of foot section or put on assist rails at foot end as required. Height and lying surface positioning can be adjusted, including Trendelenburg/reverse-Trendelenburg, cardiac chair position, while adjusting functions can be individually locked. Main (mains) power and battery power indicators. Time-saving automatic functions for nursing purposes (e.g. transport, reanimation position).

33
S 961-1 model hospital beds:

Entire bed protected according to IPX 6 (protected against high-pressure hose water).

Undercarriage, bed transport, lying surface (with additional electrical adjustment of the lower leg section for extended lower leg positioning 0 to 16° or raised upper body position), operation by patient, electrical controls and equipment is like on the S 961-2W, pressure reduction system, assist rails, styles, maintenance and care like S 960-2.

Illustration above: LCD nurse control panel in bedding storage

Operation by caregivers:

LCD nurse control panel integrated into bedding storage; can be attached to HPL board of foot section or put on assist rails at foot end as required. Height and lying surface positioning can be adjusted, including Trendelenburg/reverse-Trendelenburg, comfort position, while adjusting functions can be locked independently from each other. Main (mains) power and battery power indicators. LCD display to indicate and change settings like limitations of travel for the individual adjustment movements, lock-outs, lying surface and height position in degrees or centimetres, battery state of charge, Trendelenburg/reverse-Trendelenburg angle, technical basic data like ID no. of the bed, caster change correction and time-saving automatic function for service purposes (e.g. cardiac chair position).

<table>
<thead>
<tr>
<th>Model</th>
<th>S 960-2</th>
<th>S 961-2W</th>
<th>S 961-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable for automatic washing systems</td>
<td>-</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Length of lying surface / exterior dimensions: in. (cm)*</td>
<td>78 7/8 in. (200 cm) / 85 in. (216 cm)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Width of lying surface / exterior dimensions: in. (cm)*</td>
<td>35 7/8 in. (90 cm) / 39 in. (99 cm)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Height adjustment: in. (cm)*</td>
<td>15 3/4 in. (40 cm) / 31 1/2 in. (80 cm)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Split assist rails</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height 13 1/4 in. (35 cm) above lying surface</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Height 16 1/8 in. (41 cm) above lying surface</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Pressure reduction</td>
<td>MiS® Micro-stimulations-System</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>HPL</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Casters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single caster 5.9 in. (150 mm)</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Double caster 5.9 in (150 mm)</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Casters according to customer requirements</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Locking tracking caster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>at foot of bed</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>at head of bed</td>
<td>Option at no extra cost</td>
<td>Option at no extra cost</td>
<td>Option at no extra cost</td>
</tr>
<tr>
<td>Trapeze</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>exterior – single trapeze</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>interior – double trapeze</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
To enable you to compare the various models and versions of Völker hospital beds, bedside cabinets, and accessories at a glance, we have included in addition to the technical data these convenient charts.

<table>
<thead>
<tr>
<th>Model</th>
<th>S 960-2</th>
<th>S 961-2W</th>
<th>S 961-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analog control</td>
<td>●</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Microprocessor control with automatic function**</td>
<td>–</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Power supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main (mains) power supply 230 V</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Standard equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery pack</td>
<td>● (1,2 Ah)</td>
<td>● (1,3 Ah)</td>
<td>● (1,3 Ah)</td>
</tr>
<tr>
<td>Quickly removable headboard/footboard</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Fast release of back section (CPR)</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Horizontal and vertical wall-buffer wheels</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Slide rail along entire length of bed</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>according to Völker color selection</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Design variations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design S</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Design MA/MB in Wood laminate</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Design MA/MB in Solid Wood</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Optional equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second hand control unit</td>
<td>–</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Bed extension piece</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Bedding storage</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Restraint mount</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Towel holder</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Hand control dock</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Lower leg section motor</td>
<td>–</td>
<td>–</td>
<td>●</td>
</tr>
<tr>
<td>Caregiver keyboard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurse control unit in drawer</td>
<td>●</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Nurse control panel in bedding storage</td>
<td>–</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>LCD nurse control panel in bedding storage</td>
<td>–</td>
<td>–</td>
<td>●</td>
</tr>
</tbody>
</table>

Key

- Not available
- Optional
- Standard

* Weight and measurements in Standard
** Automatic mode can be locked permanently

Illu above: Bed extension
Technical description: bedside cabinets

K 984k hospital bedside cabinet:
Frame of anodized or powder paint-coated (RAL 9006) aluminum; cabinet in laminate panel; accessible from both sides; doors with low-noise, spring-loaded catches; removable shelves for easy cleaning; all materials and construction designed for easy cleaning and disinfecting; all-metal bow-type handles; four casters, two of which are locking [3 in. (7.5 cm) diameter]; additional caster for bed tray to increase stability.

With integrated RA 140 absorption refrigerator. Interior: inner door with two-section variable interior; volume: 41 l; energy consumption: 1.1 kWh/24h; door with magnetic catch; fully automatic thawing capability; connected wattage 90W.

Refrigerator unit with absorption refrigerator WA 3140:
With interior lighting; inner door with bottle retaining bar; fully automatic thawing capability; volume: 41 l; connected wattage 90W; energy consumption: 1.1 kWh/24h; door with magnetic catch; outer casing in easy-to-clean wood decor; four drawers with all-metal guides with soft rollers; all-metal bow-type handles.

KPF RT 985 server:
U-shaped frame in powder paint-coated steel tubing (RAL 9006), with four casters, two of which are locking [3 in. (7.5 cm) diameter]; aluminum column with infinite assisted height adjustment from 27 1/2 to 33 in. (60 to 84 cm); 4 casters are locking, diameter: 1 1/2 in. (6.5 cm).

Butler hospital bedside cabinet:
Frame made of anodized aluminium or aluminium pressure casting, powder-coated (RAL 9006; cabinet in laminate panel and aluminium profiles; 1 drawer, accessible from both sides; with extenying tray (optional) mounted on the left or right side. Chromium-plated steel column with gas spring, cushioned when sliding it up and down. Infinite assisted height adjustment from 23 1/2 to 33 in. (60 to 84 cm); 4 casters are locking, diameter: 1 1/2 in. (6.5 cm).

### Model K 984k K 984

<table>
<thead>
<tr>
<th>Version</th>
<th>Aluminum (RAL 9006)</th>
<th>Aluminum (RAL 9006)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color according to Völker color selection</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Color according to customer requirement</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

| Dimensions: in. (cm) | | |
|----------------------|----------------------|
| Width                | 20 1/2 in. (52 cm)   | 20 1/2 in. (52 cm) |
| Depth                | 20 1/2 in. (52 cm)   | 20 1/2 in. (52 cm) |
| Height               | 25 1/2 in. (64 cm)   | 30 in. (76.5 cm)   |

| Slide-out tray (W x D) | – | – |
| Adjustments range tray (H) | – | – |

| Weight in lb. (kg) | 51 lb. (23 kg) | 55 lb. (25 kg) |

| Equipment | | |
|-----------|----------------------|
| [A] Slide-out tray | – | – |
| [F] Bottle holder | ○ | ○ |
| [R] Casters | ● | ● |
| [T] Door instead of large lower drawer | ● | ● |
| Additional adjustable shelf | ○ | ○ |
| Locking top drawer | ○ | ○ |
| Open compartment | – | ● |
| Bedpan holder | ● | ● |
| Drawer inset | ○ | ○ |
| Magazine holder | – | – |
| Paging system | – | – |
| Telephone supports | ○ | ○ |
| Special equipment | ○ | ○ |

Key:
- Not available
○ Optional
● Standard

Illustration: Völker K 984t model with additional adjustable shelf and bottle holder.
<table>
<thead>
<tr>
<th>K 984t</th>
<th>K 984t/2</th>
<th>K 984kt</th>
<th>K 984t/2</th>
<th>Refrigerator unit</th>
<th>KPF RT 985</th>
<th>Butler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum (RAL 9006)</td>
<td>Aluminum (RAL 9006)</td>
<td>Aluminum (RAL 9006)</td>
<td>Aluminum (RAL 9006)</td>
<td>Aluminum (RAL 9006)</td>
<td>Aluminum (RAL 9006)</td>
<td></td>
</tr>
<tr>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td>22 1/8 in. (58 cm)</td>
<td>22 7/8 in. (58 cm)</td>
<td>20 1/2 in. (52 cm)</td>
<td>22 1/8 in. (58 cm)</td>
<td>20 1/2 in. (52 cm)</td>
<td>22 1/8 in. (58 cm)</td>
<td></td>
</tr>
<tr>
<td>30 in. (76.5 cm)</td>
<td>30 in. (76.5 cm)</td>
<td>25 in. (63.5 cm)</td>
<td>30 in. (76.5 cm)</td>
<td>25 in. (63.5 cm)</td>
<td>30 in. (76.5 cm)</td>
<td></td>
</tr>
<tr>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td>26 1/2 in. - 40 1/2 in. (66.5-102.5 cm)</td>
<td></td>
</tr>
<tr>
<td>77 lb. (35 kg)</td>
<td>72 lb. (31 kg)</td>
<td>77 lb. (35 kg)</td>
<td>104 lb. (47.5 kg)</td>
<td>103 lb. (46.7 kg)</td>
<td>33 lb. (15 kg)</td>
<td></td>
</tr>
<tr>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
</tr>
</tbody>
</table>

Illustration: Volker K 984t model with drawer divider.

Illustration: Volker K 984t model with built-in paging system.

Illustration: Volker K 984t model with telephone support (matching the telephone model).
Völker Standard 1200 mattress

With its polyether cellular foam core, the Völker Standard mattress meets the requirement for a high level of comfort, load-bearing capacity and durability. It's pressure-point density, orthopedic, anatomically adaptive and ensures a constant bed temperature. Regular 88 lb. (40 kg), single-layer special mattress with lateral sections suitable for use with four-section lying surface; can be disinfected to 105°C; standard cover G 71: elastic jersey, beige (80% Trevira, 20% cotton); density approx. 220 g/m²; zip-fastener on one long and one short side; cover washable to 95°C. Optionally available in compliance with flame protection norm DIN 597-1+2.

Rubex® Finess 2200 mattress

The Völker Rubex® Finess mattress is exceptionally comfortable. The mattress structure with a higher density core and soft supple lying surfaces offers ideal support, enhanced by the shape-retaining, durable Rubex® special foam material. Its open cellular structure ensures extremely high air circulation and almost complete moisture exchange, further enhanced by the diagonal wave shape within the triple-layer structure. Regular 110 lb. (50 kg), triple-layer special mattress with varying degrees of hardness; can be disinfected to 105°C (recommended: 75°C to protect material); standard cover G 68: highly elastic cover, pale blue (Helanca/Trevira/cotton), density approx. 220 g/m²; zip fastener on one long and one short side; cover washable to 95°C. Mattress 2200 PUK conforms to flame protection norm DIN 597-1+2.

Völker Plus 3300 mattress

The economical Völker Plus deluxe mattress offers effective pressure sore protection. Triple-layer core structure enhances pressure relief. Upper surface of visco-elastic special foam at a density of 60 kg/m³ and hardness 2.8 kPa. Accepts patient gently and ensures, through its unique adhesive properties, moderate compression and optimal pressure distribution/relief. This is reinforced by the pressure-distributing central layer with a density of 60 kg/m³ and a medium hardness of 3.5 kPa. Load-bearing lower layer with a density of 50 kg/m³ and a hardness of 5.0 kPa ensures shape retention and prevents sagging. Can be disinfected to 75°C. Three cellular foam layers joined by special wave cut that's adhesive-free due to body-conforming profile – ensuring optimal air circulation. Standard cover: durable PU-coated jersey, royal blue (material 991) with zip fastener on underside. Washable to 95°C. Mattress 3300 PUK conforms to flame protection norm DIN 597-1+2.

Völker covers

PU two-way cover (Standard and Rubex® Finess only) with zip fastener on one long and one short side. Upper face and top half of sides of PU material 983, lower face and bottom half of sides of G 71 material (Völker standard) or G 68 material (Völker Rubex® Finess).

PU full cover: To protect mattresses and for a long service life, we recommend using our high-quality polyurethane protective cover 983, 991 or 989.
- Certified according to Eco-Text Standard 100
- water and urine-proof, head of water:
  \[ \rightarrow 3000 \text{ mm} \] in accordance with DIN 53886
- breathable, water vapour permeability
  > 500 g/m²/d in accordance with DIN 53122 Klima B
- bacteria and virus-proof
- blood, urine, oil, fat and disinfectant-resistant according to DGHM
- nonslip
- flame-resistant in accordance with
  a) BS 7175 sec 3 crib 5
  b) DIN EN 12952 Part 1–4

In the event of soiling, the polyurethane protective covers 983, 991, 989 can be wipe disinfected with any approved surface disinfectant in the DGHM or RKI list. The mattresses are available for use immediately after wipe disinfecting. They save considerable waste disposal costs for otherwise severely contaminated mattresses.
## Accessories

**Fitted cover in PU material 989, white,**

with elastic

**Spare covers**

### Key:

- **Not available**
- **Optional**
- **Standard**

* Fits lying surface of Völker beds

### Model Dimensions, W x L: in. (cm)*

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard 1200</th>
<th>Rubex® Finess 2200</th>
<th>Plus 3300</th>
<th>Mattress extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 3/8 x 78 3/4 in. (90 x 200 cm)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>–</td>
</tr>
<tr>
<td>39 3/8 x 78 3/4 in. (100 x 200 cm)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>35 3/8 x 82 3/4 in. (90 x 210 cm)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>39 3/8 x 82 3/4 in. (100 x 210 cm)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Special dimensions</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>35 3/8 x 7 1/4 in. (90 x 18.5 cm)</td>
<td>●</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>39 3/8 x 7 1/4 in. (90 x 18.5 cm)</td>
<td>X</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### Dimensions, height in. (cm)

<table>
<thead>
<tr>
<th>Cover</th>
<th>4 3/4 in. (12 cm)</th>
<th>4 3/4 in. (12 cm)</th>
<th>5 3/4 in. (14 cm)</th>
<th>7 1/4 in. (18.5 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 68 pale blue</td>
<td>–</td>
<td>●</td>
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<tr>
<td>G 71 beige</td>
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<td>PUW two-way cover:</td>
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<tr>
<td>G 68 pale blue/983 blue</td>
<td>○</td>
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<td>PUW two-way cover:</td>
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<tr>
<td>G 71 beige/983 blue</td>
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<tr>
<td>PUK full cover 983 blue</td>
<td>○</td>
<td>○</td>
<td>●</td>
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<tr>
<td>PUK full cover 991 royal blue</td>
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<td>●</td>
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<td>Special covers</td>
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### Equipment

- **Cellular foam core on vegetable oil basis NAWARO**
- **Flame-resistant version**

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Key:</th>
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<tr>
<td>Fitted cover in PU material 989, white, with elastic</td>
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<td>Spare covers</td>
<td>Optional</td>
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<tr>
<td><strong>Standard</strong></td>
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* Fits lying surface of Völker beds