


BedAiD®



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BedAiD®

Quality Life.

An unimpeded life without being wounded
with the special solutions of BedAiD®



www.bedaaid.com



BedAiD® is a technology research center which develops products to facilitate the life with unique ideas.

BedAiD®

BedAiD® Technology Research Center produces solutions for all requirements of bed-ridden patients and disabled individuals as a result of long-term Research and Development studies, the production process conducted together with disabled individuals and clinical study phases. It offers unexampled products as a result of a meticulous study process and develops tailor-made products by producing solutions according to requirements.

The licenced products produced in the BedAiD® Technology Research Center are developed by native experts in Turkey from their designs to their electronical equipment, software and digital technology.

The BedAiD® Technology Research Center which has developed BDVisco® which supports air flow and prevents sweating and uses this special visco in all its products also produces a domestic bed series which answers the requirements of healthy individuals.

The BedAiD® Technology Research Center aims to create healthy, peaceful and practical living conditions for bed-ridden patients and disabled individuals.

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Pressure Sore-Decubitus Ulcer Prevention Mattress

BedAiD® Pressure Sore-Decubitus Ulcer Prevention Mattress is the first and only system in the world offering solutions to all problems of bed-ridden patients at the same time. It minimizes pressure with its high technology and special design and eliminates the possibility of development of wound with its strong ventilation channels and replaceable multipoint massage system. It creates the comfort required by bed-ridden patients and provides tailor-made solutions with its programmable functional remote control.

It is a social security registered product. It has TITUB register. It possesses CE and ISO 9001-2008 certificates. It is a licensed product.

GENERAL PROPERTIES

- Ability to form low-pressure area
- Ventilation system
- Multiple-point massage
- Cube/block property
- Functional remote control
- Electronic system
- Antibacterial property
- Water-proof cloth
- Zippy and cleansable
- Ability to be used with any kind of supportive product (moving bed etc.)

TECHNICAL PROPERTIES

- Cube/block number: 45
- Cube/block dimensions: Width 13 cm x 13cm, height 15 cm
- Cube/block coat: 195 gr antibacterial membrane towel.
- Cube/block material: Upper surface height 7 cm, 65 density visco, lower surface height 8 cm 32 density sponge.
- Surface coat: Antibacterial polyurethane.
- Ventilation system: Antibacterial hose specially produced from baby pacifier raw material.
- Ventilation length: 4.2 m
- Ventilation motor: Dc motor (12 volt power)
- Vibration number: 6
- System software: BedAiD® special software.
- Remote control system: Electronic transmitter/receiver. (special production)
- Remote control version: U.K.
- Sponge frame division number: 9
- Sponge frame material: 32 density black sponge.



Vibration Units	Removable and Interchangeable Cube/Blocks	The ventilation Unit	The Remote Control
<ul style="list-style-type: none"> • Provide tissue perfusion. • Speed blood circulation. • Prevent closure of the capillaries. • Give resistance to muscles. • Prevent growth of bacteria. • Strengthen the defense systems of the body. • Prevent ischemia. • Prevent pleurisy arising from lying. • Produce solutions for problems arising from denervation and muscle paralysis. 	<ul style="list-style-type: none"> • Form a low-pressure area. • Prevent hyperemia. • Prevent formation of bullae. • Enable tissue perfusion. • Minimize friction. • Enable reduction of compression in the desired areas. • Prevent cutaneous, subcutaneous, muscle and fascia necrosis. • Prevent formation of edema. • Stop formation of ulcers. • Prevent ischemia. • Speed treatment process for established ulcers. 	<ul style="list-style-type: none"> • Provides reduction in the humidity of the skin. • Prevents sweating. • Prevent maceration, contamination and infection. 	<ul style="list-style-type: none"> • It provides uninterrupted care for 24 hours. • Enables periodical repetition of ventilation and vibration in the desired areas with the desired frequency. • Provides a comfortable lying.



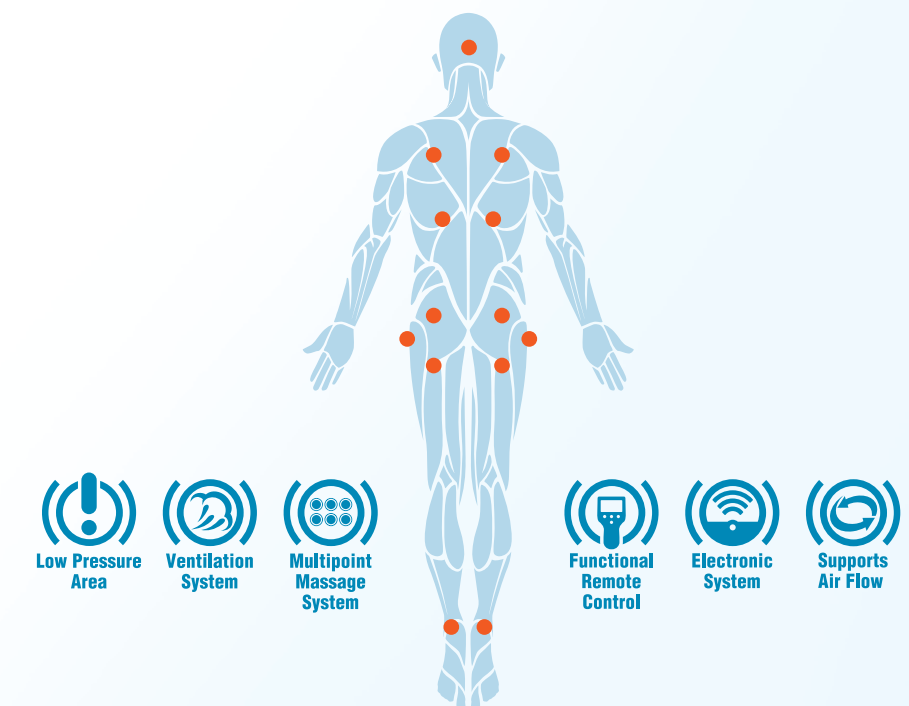
Among the alternatives offered to minimize the complaints of bed-ridden individuals, some target to increase mobility and speed the blood circulation, some target relax the patient by taking the form of the body and some target to decrease ulcers and erythemas by producing ventilation solutions. However, all requirements of the patient should be met at the same time and solutions to all problems should be produced at the same time for the patient to continue a normal life.

The BedAiD® Pressure Sore-Decubitus Ulcer Prevention Mattress is **the first and only system in the world** producing solutions to decubitus ulcer, sweating, pain, immobile muscles and slowed blood circulation at the same time.

How does BedAiD® find solution for decubitus ulcers?

The most important factor in decubitus ulcers is pressure. If the pressure between the lying surface and bony prominence exceeds the maximum time for which the tissues can endure bloodlessness, decubitus ulcer develops in that area.

The lying surface of BedAiD® is made up of removable cubes. The cubes in the areas where decubitus ulcer has developed or there is a possibility of development of decubitus ulcer are removed and the pressure leading to decubitus ulcer is minimized. The multipoint massage system speeds the blood circulation which has slowed down and distributes the pressure and keeps the pressure at a minimum level. Development of decubitus ulcer is prevented by precluding sweating and humidity by ventilation channels and present ulcers are healed.



You can use the following simple test to check the blood circulation of your patient:

- Determine the skin regions which contacts with the surface and which you think is under pressure.
- Apply pressure on the regions by pressing with a finger.
- Meanwhile, determine the time passed for whitening of the skin by tracking the clock and stop pressure.
- Measure the time of the skin to turn to its normal color and compare.

The skin should turn to normal in a shorter time than 2-fold of the time of finger pressure. If whitening does not occur or if the turning of the skin to its normal color delays, damage to the capillaries should be considered. Blood circulation should be accelerated by moving these patients in such a way to stimulate the nerve endings.

How is BedAiD® cleaned?

The massage blocks and the body are covered with a special case. The case is zippy. It can be easily cleaned. It is water-proof and antibacterial. The parts contacting the body are 100% cotton.

It has been produced with dark color considering the living conditions of bed-ridden patients.



Antibacterial Cleanable Water-Proof

Can BedAiD® be used with supportive products?

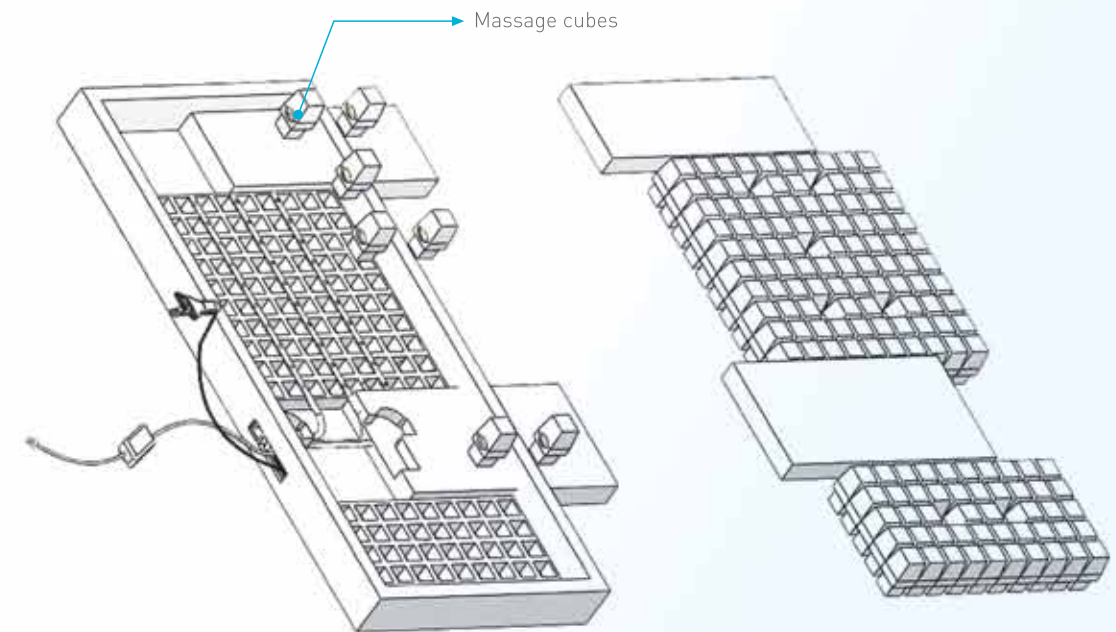
The BedAiD® Pressure Sore-Decubitus Ulcer Prevention Mattress is compatible with any kind of supportive product required by bed-ridden patients. It may be operated on any movable bedstead. Any kind of assistive product can easily be used.



Compatible System

How does BedAiD® apply massage?

The massage system has been developed to stimulate the nerve endings and mobilize the blood circulation. It activates the muscle system and enables the parts of the body which are not in contact with air to contact with air. It prevents development of decubitus ulcers, pain and sweating.



The massage system includes 6 massage blocks placed in different points. The blocks are not stable and their localization can be changed if needed. Operation-resting times and severity can be adjusted individually.



Multipoint Massage System

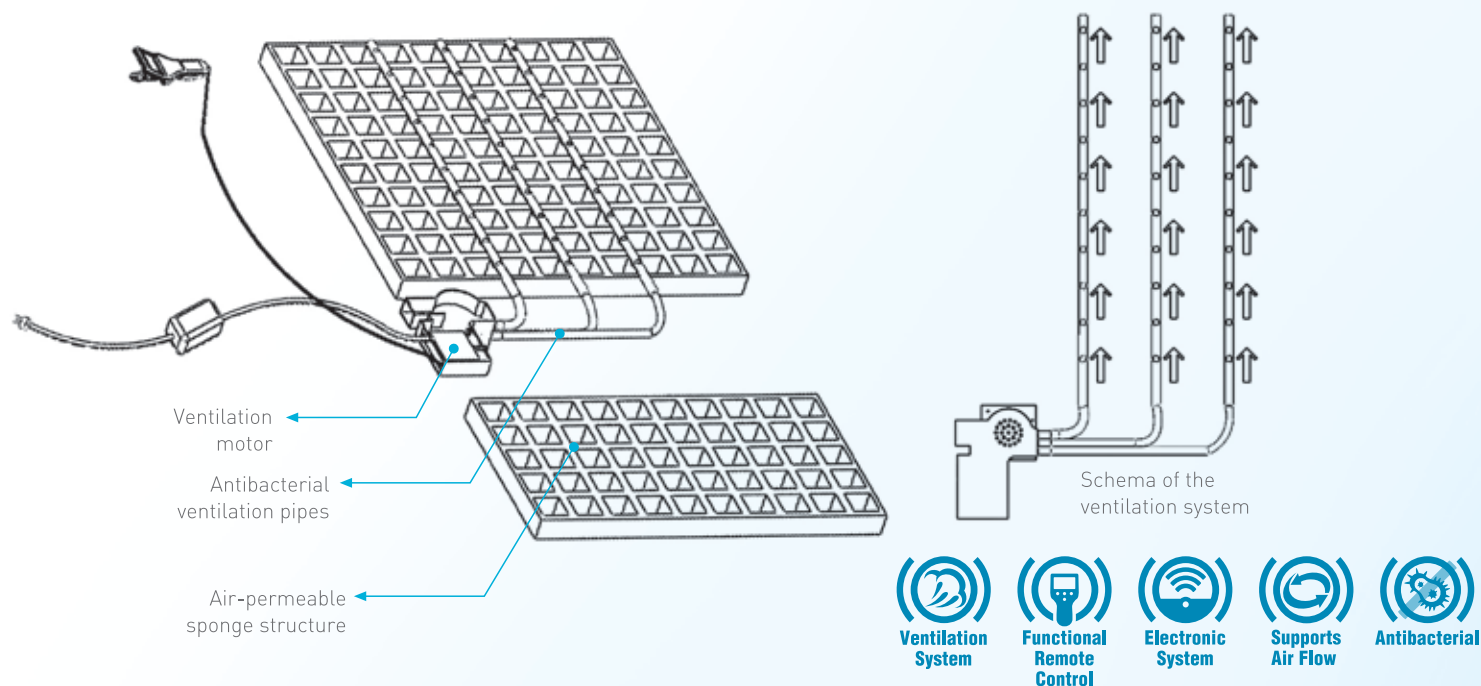
Functional Remote Control

Electronic System

How does the BedAiD[®] ventilation system work?

The BedAiD[®] Pressure Sore-Decubitus Ulcer Prevention Mattress is designed with a mechanism including ventilation channels in its body. When the commands given by remote control are transferred to the mechanism, the channels start to produce air. Formation of moisture is prevented and the moisture formed is dried.

The internal design of the BedAiD[®] system has been designed in such a way to support the air flow and a uniform background has been specifically avoided. The ventilation channels are antibacterial and can be programmed individually.



How does the remote control of BedAiD[®] work?

There is a remote control system which controls all functions separately in the BedAiD[®] Pressure Sore-Decubitus Ulcer Prevention Mattress.

The remote control has been placed in the most appropriate place which the individual can easily reach. Special programs prepared considering the requirements of the patients who have to lie for a long period can be used and massage and ventilation mechanism can be individualized by adjusting application sites, operation times and operation severity separately.





BedAiD® Disabled Mattress

It has been designed specifically for all users who have physical limitation including mainly wheelchair users.

While standard beds do not offer any solution for individuals with movement limitation, BedAiD® Disabled Mattress has been produced specifically to meet all requirements of users. The BedAiD® Disabled Mattress was developed in the direction of the views of disabled people in the research and development stage and its final form has been achieved after numerous trials.

It is a utility model protected product.



Convenience in terms of passing onto the bed:

Filler strips with a width of 12 cm produced from rigid sponge are found on both sides of the bed. These provide support required by the individual to pass onto the bed and both passing is facilitated and the requirement of balance and safety is met. *(The softness of standard beds causes to great difficulty in passing onto the bed.)*

Easy movement on the bed:



- The optimized softness of the bed offers the required rigidity when the individual straightens on his/her elbows or when he/she wants to lean to right or left.

- Handholds produced from aluminium material with a length of 50 cm are embedded into the lateral surface of the bed and are positioned in such a way to meet the hand when the individual extends to turn to right or left.

- The filling strip of 12 cm found at the sides (especially in beds with a dimension of 90cmx190cm) provides great advantage while the individual is straightening on his/her elbows.

Water-proof and washable case:

The bed case is produced from water-proof cotton towel cloth covered with membrane. The upper case surrounded by zip all around can be easily separated from the lower case and can be washed whenever desired.

Catheter hanger:

Catheter hangers are found on both sides to be used when the need arises.

Appropriate dose of rigidity-softness:

The uppermost layer of the bed confronting the body is produced of 80 density visco elastic material. However, extreme softness of standard visco elastic material will cause the individual to sink into the bed and to experience extreme difficulty while moving. Therefore, the visco material has been specially hardened and special material have been placed into the lower layer to meet the weight. Thus, comfort has not been omitted and easy movement has been enabled on the bed.

Comfortable and safe lying:

BedAiD does not omit comfort, when offering the rigidity required. It distributes the body weight equally on the bed when lying on the back, when lying face down and when lying on one's side and thus provides a comfortable sleep and eliminates the risk of decubitus ulcer.

Optional properties:

- It can be manufactured with the desired dimensions in addition to standard dimensions.
- The site of the holding bars can be positioned optionally.
- It can be manufactures with the desired size in addition to the standard size with a bed height of 20 cm.
- A massage and ventilation system can be added.





BedAiD® Obese/ Bariatric Sickbed

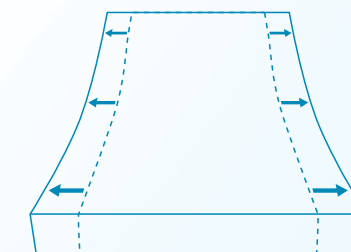
It is a version of the BedAiD® Pressure Sore-Decubitus Ulcer Prevention Mattress with different dimensions and carries all of its properties. It provides a carriage capacity of up to 450 kg considering the requirements of obese/bariatric patients.

It is specially manufactures depending on the required size and carriage capacity. It creates a low pressure area with its removable cube/block property. The bed and the lying surface are cooled by way of transportation of clean air absorbed from outside by ventilation motor with ventilation channels found inside the bed.

Thus sweating is prevented. The blood circulation is accelerated owing to the vibration motors.

The whole system is controlled by remote control. The system can be adapted to any size needed. As the size increases, the number of cubes/blocks increases. The carriage capacity of the bed is increased with 100 density closed cell pad added onto the system. It offers all benefits and comfort offered by the BedAiD® Pressure Sor-/Decubitus Ulcer Prevention Mattress.

The massage blocks and body are covered with a special case. The case is zippy and can be easily cleaned. The fabric used for covering is water-proof, cleanable and antibacterial. The parts contacting the body are 100% cotton.





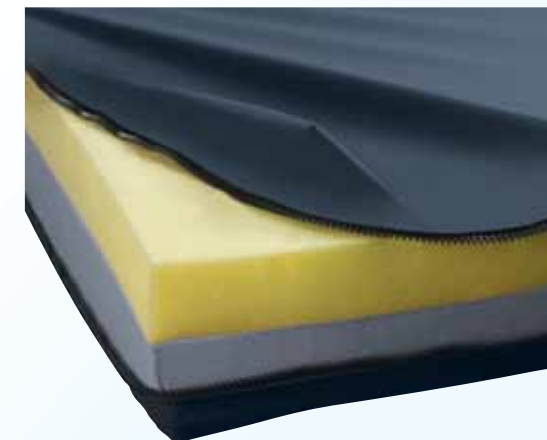
BedAiD® Hospital Mattress

BedAiD® Hospital Mattress has been produced for patients who are obliged to continuously rest, though they are not bed-ridden.

More time is spent in the bed compared to daily living in hospitalizations which aim treatment and problems including slowed blood circulation, muscle pain, muscle stiffness and sweating are inevitable. BedAiD® Hospital Mattress decreased the possibility of decubitus ulcer by reducing pressure with its special design and prevents problems including erythema and sweating arising from long-term lying by supporting ventilation.

Its polyurethane case is water-proof and anti-bacterial. Owing to the zip used all along, it can be removed completely; the lower and upper cases can be separated from each other. It can be cleaned, washed and wiped with any kind of standard disinfectant.

Its visco thickness can be changed if needed. BDVisco® use on the lying surface is air-permeable and supports air flow. It may be used anywhere with requirement of low pressure, in intensive care units and wards. It complies with any moving bedstead. It can be produced with special dimensions.





BedAiD[®] Surgery Mattress

It is a different product which provides the required conditions after surgical interventions.

It has a dimension of 90 x 190 x 20 cm. There is a hole with a width of 10 cm is found just in the middle of the bed. This hole continues from the back regions to the sacrum along 80 cm.

Zero friction and risk is targeted by bringing down the devices including drainage tubes, catheters etc. used in the back and lower back areas following surgical interventions without harming the patient. The lying surface is made up of 60 density visco elastic material with a thickness of 5 cm. The middle layer is made up of feather material with a thickness of 5 cm. The lower supportive layer is made up of 28 density sponge.

The case is zippy all along and made up of polyurethane cloth.





BedAiD[®] Bed for Children with Enuresis

It has been specially produced for children who have enuresis problem during sleep.

The tencel towel used on the lying surface is covered with fabric membrane which provides water-proof property. Leakage cases which may occur even if an aleze is layed on the bed are completely prevented. The bed has a dimension of 90 x 140 x 15 cm.

Since the tencel cloth used in the case is 100% natural product, the lying surfaces are comfortable and safe. The case is zippy all along. It can be removed completely and washed. The uppermost layer (lying surface) is made up of 60 density air permeable visco elastic material with a thickness of 5 cm. The 2nd layer (supportive layer) is made up of feather material with a thickness of 5 cm. The 3rd layer is made up of 28 density BDS supportive unit with a thickness of 5 cm.

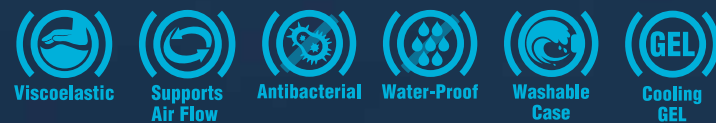
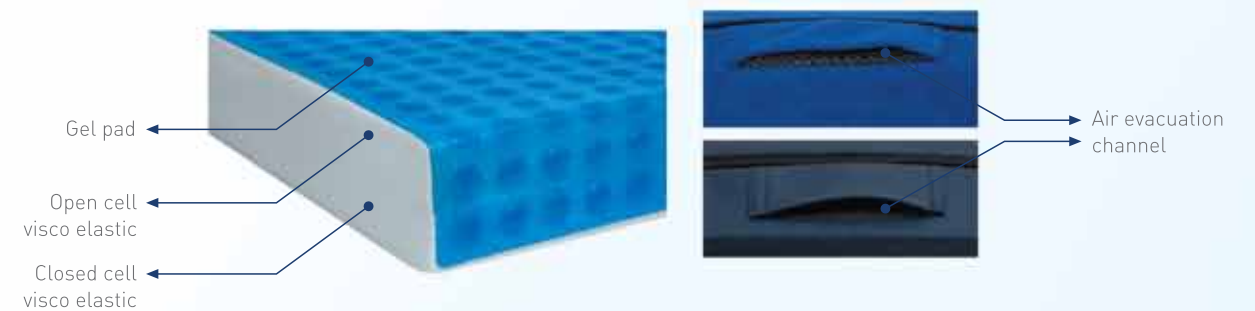




BedAiD® Gel Wheelchair Cushion

It is a wheelchair mattress providing a comfortable and healthy sitting designed in such a way to distribute the body weight on the sitting surface. It greatly eliminates the risk of decubitus ulcer and sweating.

- The sitting surface is covered with cold effect gel against sweating and humidity.
- There are two different case and dimension alternatives.
- Both cases are anti-bacterial, zippy, removable and washable.
- A spacer window with a height of 5 cm and a width of 10 cm is found to enable air exit at the time of sitting.
- The towel membrane model is made of 190 g towel cloth. For protection against fluids, a water-proof surface has been obtained by covering with a case membrane.
- Its polyurethane model is water-proof.
- The height of the mattress reduces to 2 cm in the sitting position of a 90 kg person. It creates a safe sitting area.
- The thickness of the mattress is 10 cm.
- The lower surface is made up of visco elastic material with a thickness of 5 cm and 80 density.
- The sitting surface is made up of visco elastic material with a thickness 5 cm and 65 density.
- The sitting surface is covered with cold effect gel with a thickness of 1 cm against sweating and humidity.
- There are two dimension alternatives. (45x45 cm and 40x40 cm)





BedAiD® Scoliosis/Head Support Cushion

It is a multi-purpose support mattress which corrects the position of users of products including wheelchair, stroller etc. and provides a comfortable sitting.

- It can be used both as head support and scoliosis support according to the need. It is a utility model protected product.
- It is modular and dimensionable.
- It enables wheelchair users to sit erect. It functions as a barrier between the iron pieces of wheelchair and the user.
- The binding apparatus is produced from 65 density BDVisco® elastic material.
- Support devices are made of special BD® material.
- It is covered with anti-bacterial and water-proof polyurethane cloth.
- It is a licensed product.
- The binding apparatus has a dimension of 130x13x2 cm.
- The support devices have a dimension of 7x7x19 cm.
- It is a utility model protected product.



BedAiD® Stroller Mattress

It has been specially designed for children who use disabled strollers.

- Visco material with a thickness of 7 cm greatly absorbs the body weight and relieves the user.
- Owing to the abductor between the legs, adherence of the legs to each other is prevented. The abductor is fixed to the mattress by velcro strip.
- It may be used specifically for children who use disabled stroller because of disorders including spina bifida, paraplegia, muscle disease etc. and is also recommended for all babies because it provides a comfortable lying surface.
- BedAiD® Stroller Mattress which covers the whole of the back and sitting area of the stroller provides soft, comfortable and safe resting.
- Optionally a gap with a diameter of 10x20 cm can be created in the area corresponding the lower back region especially for children with spinal bifida disorder. Owing to this gap, pressure in the risky area is reduced. BDVisco® elastic material is covered with towel membrane cloth. (Still, it is recommended to use a cotton covering on the mattress to prevent sweating.)
- It cases is water-proof. It can be easily removed and washed, since it is zippy.
- It has a dimension of 110x33x7 cm.
- It is made up of 65 density BDVisco® elastic material.





BedAiD® Bath/Closet Cushion

It has been designed specially to eliminate the risk of irritation on hard surfaces including closet and toilet chair.

- It reduces the pressure which is formed on sitting surfaces and provides protection against the risk of development of wounds in short-term usage.
- The sitting surface is composed of BDVisco® elastic material.
- Owing to its property to distribute the pressure, it provides more comfortable and safer sitting.
- An air evacuation channel composed of spacer cloth is found on the lateral surface to eliminate rigidity on the first sitting.
- The lower support surface is produced of hard material.
- The lower surface is covered with polyurethane skidproof cloth to prevent sliding of the mattress on the surface where it is used.
- The upper case is made of antibacterial polyurethane cloth.
- The case has a wipeable surface.
- It can be easily removed and washed, since it is zippy.
- It has dimensions of 45x45x7 cm.
- It has two layers.
- The lower supportive layer is made of 2 cm special eva material.
- The sitting surface is made of closed cell BDVisco® elastic material with a thickness of 5 cm and 80 density.
- It is not appropriate for long-term sitting in daily use.



BedAiD® Gel Heel Protection Cushion

This product protects the heels against wounds which would arise from contusion, peeling and friction. It is composed of a supportive layer, upper layer made of BDVisco® and the most upper layer made of cold effect gel. It is covered with a towel membrane case. It is zippy, removable and washable. It has a dimension of 45x15x12 cm.



- BedAiD® Gel Heel Protection System protects the heels against wounds which would arise from contusion, peeling and friction.
- It enables the heels to stay in hanger with its special design and prevents intensification of pressure on another point.
- It is designed in the form of a ramp. Therefore, the pressure which occurs as a result of staying of the heel in the hanger is distributed equally in the other parts of the leg.
- The case is produced from 190 g towel cloth. The case which is covered with a membrane is zippy. It can be removed and washed.
- The higher border has a height of 10 cm and the shorter border has a height of 6 cm.
- The surface on which the foot sits is made of viscoelastic material with a thickness of 5 cm and 65 density.
- The lower surface is supported with 28 density sponge to support viscoelastic material.
- The surface of the visco elastic material is covered with 1 cm gel to prevent sweating and bacterial growth.



BDVisco® Lego

It can be attached to any disturbing rigid surface by way of adhesive tapes. It prevents pressure, friction and irritation with its soft tissue.

The case is water-proof. It is manufactured from antibacterial, polyurethane cloth. It has a dimension of 20x10x5 cm. It is manufactured from 80 and 65 density BDVisco® elastic material.





BedAiD[®] Bed Chair

This is a position mattress designed to meet the requirements of individuals who are obliged to lie for a long time or who are bed-ridden including sitting on the bed with the feet hanging down, eating and resting by sitting.

- Owing to the support it provides, the bed can be used as a comfortable chair.
- Its case is water-proof and made up of towel membrane cloth.
- It can be easily removed and washed when desired, since it is zippy.
- It is a utility model protected product.
- It has a dimension of 89x37x76 cm.
- It is made up of 28 density sponge and the sponge is covered with fiber all around.





BedAiD[®]
Quality Life.