

VACUFORM[®]

A line of products by B. u. W. Schmidt GmbH



Since 1961, B. u. W. Schmidt GmbH in Garbsen near Hanover has produced precision products made of high-frequency welded flat sheets for the health and emergency services sector.

Faultless quality and workmanship, easy handling and rugged materials are the basis for the uncompromising safety of our products.

Our service ensures short delivery times and fast repairs in our factory.

The quality management system of B.u.W. Schmidt GmbH is EN ISO certified.

All equipment complies with the German Medical Device Act (MPG) and bears the CE mark.

If you cannot find the desired items or dimensions in this brochure, please contact us regarding custom production. Our computer-aided production system enables us to make equipment to meet your individual requirements in all sizes up to 150 x 250 cm.



Plastic products for health and emergency services

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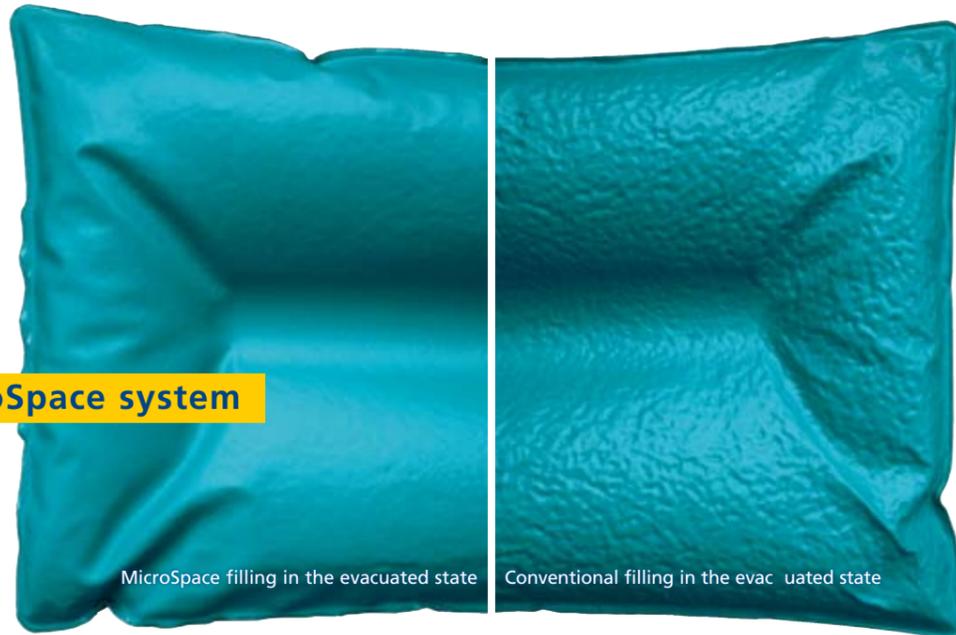
VACUFORM[®]

The optimized, advanced
surgical bedding concept

NOW: WITH
MICROSPACE
SYSTEM

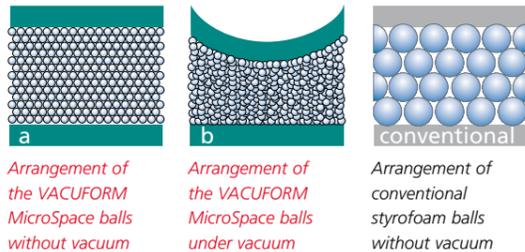
**A new definition
of patient comfort:
the feeling of
weightlessness
in surgery**





New: The innovative VACUFORM MicroSpace system

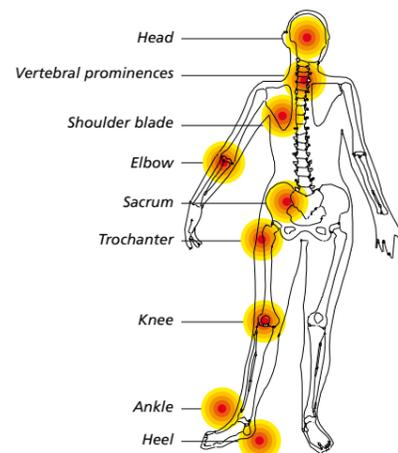
- Further optimized pressure relief
- "Weightless" feeling (like a waterbed) despite stable immobilization
- Surface nearly untextured



The secret of perfected adaptation to the body by VACUFORM surgical mattresses is microballs of styrofoam, which are stabilized by vacuum to give a lasting, completely supportive form. Reducing the diameter of the filler balls by a fifth enables significantly more precise adaptation of the surgical mattresses to the body. The new **MicroSpace system** increases the feeling of physical comfort for the patient significantly compared to conventional fillings.

Particularly during **time-consuming operations** or with patients who are older and in poor condition, there is a risk of pressure points leading to acute decubital ulcers* and paresis (paralysis from nerve damage).

1 Decubitus prophylaxis in the operating theatre



(Fig: Parts of the body at risk from decubitus)

The individual, **ergonomic body adaptation** of VACUFORM surgical mattresses effectively prevents such damage. The **support pressure** of the patient is optimally distributed over the whole body and thus reduced to a minimum. The **microcirculation** needed by the skin is unaffected. The patient has a noticeable feeling of **comfort**, a feeling of lightness and warmth.

*Decubitus (bedsore, pressure sore) is damage to the skin and underlying tissue caused by pressure sustained for a longer period of time. It results in pain, isolation and reduced quality of life for the patient. Problems with decubitus can arise with as little as 10 to 20 minutes of increased pressure. Follow-up therapy for this results in Germany costs between 0.7 and 2 billion euros. (Pelka 1997)

The patient can be immobilized quickly and securely in any desired position. This gives the surgeon optimal access to the operation area and allows **safe handling** of the patient. Even the most extreme tilting of the surgery table does not change the defined position of the patient. The surgical positioning can be corrected at any time by relieving the vacuum, forming the surgical mattress to the new position of the patient and then evacuating the air again. Moreover, VACUFORM surgical mattresses enable **transport between hospitals** in a **defined surgical position**.

Safety on the operating table



Examples of VACUFORM indications:

- Side position
- Semi-lateral position
- Supine position
- Seated / half-seated position
- Screw position
- Lithotomy position
- Laparoscopic positions

Cost reduction with VACUFORM

VACUFORM contributes to efficiency and leads to **considerable cost reduction** through fast, simple handling, prevention of sequelae such as decubitus and paresis, **saving of additional materials**, fast cleaning and long reusability even with constant use.

- Prevention of sequelae
- Saves additional materials
- Long reusability
- Covers a wide range of surgeries
- Intra-operative illumination possible

»The many years of work with the vacuum mattress have given us many advantages with respect to patient safety, quality of the individual positions, simplified handling, time savings and cost reduction by saving of additional bedding material. Once could maintain that the number of sequelae such as decubitus and paresis have decreased to insignificance with the use of VACUFORM surgical mattresses.«

(The University Hospital Inselspital in Berne regarding the experience with VACUFORM surgical mattresses)

4 The product benefits of VACUFORM surgical mattresses

- X-ray permeable
- Suitable for MRI and CT
- Image converter application possible during surgery
- Latex-free

All VACUFORM surgical mattresses and cushions are manufactured with a special, soft PVC sheeting that makes them **slip-proof** and absolutely **stable in form**. They contain no latex and are **permeable to X-rays** as well as **suitable for MRI and CT** use, and they are equipped with a **plastic valve for one-handed operation**.

For all interventions requiring special positioning for surgery, the VACUFORM product line offers surgical mattresses to satisfy all the relevant requirements for the indication. The **new, expanded VACUFORM product line** includes surgical mattresses for obese patients as well as a vacuum mattress as a contemporary alternative to a plaster bed. Furthermore, we are able to make nearly any **special size** you require.

5 The expanded VACUFORM selection of surgical mattresses

- Expanded standard selection
- Now includes models for obese patients
- Custom product production



VACUFORM universal surgical mattress 75 x 200 cm # 34 66 105	VACUFORM universal surgical mattress 65 x 200 cm # 34 66 205	VACUFORM universal surgical mattress 100 x 200 cm # 34 66 104	VACUFORM lower leg and foot surgical mattress 75 x 200 cm # 34 66 505
VACUFORM »plaster bed« with vacuum technology, re-usable, e.g. for inoperable spondylitis 75 x 200 cm # 34 66 610	VACUFORM shoulder surgical mattress 75 x 200 cm # 34 66 605 including additional pillow 35 x 30 cm # 34 66 605-k	VACUFORM Murpf surgical mattress for side positioning 95/70 x 212 cm # 34 66 305	VACUFORM shoulder surgical mattress 75 x 200 cm # 34 66 405

This specially developed hood encloses the entire head and fits the head ideally using the VACUFORM principle. The valve for evacuating the air is on the outer left side of the hood; there is an opening on the outer right side which enables styrofoam balls to be added or removed to obtain an **ideal fit**. The hood can be used to immobilize the patient's head during computer tomography (CT), angiography, etc., because it is **permeable to X-rays**. For use in radiology, we offer a special plastic vacuum hand pump equipped with a non-magnetic brass rod.

The VACUFORM surgical hood

- VACUFORM surgical hood small # 34 64 700
- VACUFORM surgical hood large # 34 64 701



VACUFORM short surgical mattress 75 x 125 cm # 34 65 205	VACUFORM short surgical mattress 100 x 100 cm # 34 66 005	VACUFORM short surgical mattress 75 x 100 cm # 34 65 005	VACUFORM short surgical mattress with cutout 75 x 100 cm # 34 65 105	VACUFORM short Murpf surgical mattress with cutout e.g. for hip surgery in side position 95/80 x 105 cm # 34 66 007
VACUFORM surgical cushion 60 x 80 cm # 34 64 005	VACUFORM surgical cushion 40 x 70 cm # 34 63 005	VACUFORM surgical cushion 30 x 70 cm # 34 62 005	VACUFORM surgical cushion 30 x 40 cm # 34 61 005	VACUFORM surgical neck cushion 40 x 35 cm # 34 67 005

VACUFORM short surgical mattresses



VACUFORM surgical cushions



VACUFORM® The extended programme for perfect patient positioning

VACUFORM surgical equipment

In case there is no vacuum system in the operating room, we offer a selection of easy-to-use **vacuum hand pumps** for all VACUFORM products:



Plastic vacuum pump
Length 55 cm # 5310

Metal vacuum pump with foot stand
Length 60 cm # 5320

Plastic vacuum pump
Length 32 cm # 5340

Plastic vacuum pump with non-magnetic brass rod
Length 32 cm # 5350

Carrier bag (not shown)
red, 80 x 100 cm
34 66 800

Repair set for easy fixing of small tears and holes in all VACUFORM products.
34 65 400

Non-slip sheeting prevents slippage of the surgical mattress in extreme positions, such as during laparoscopic sigma resections. The sheeting is easy to clean and reusable.

Non-slip sheet
40 x 100 cm # 34 66 900

Roll of non-slip sheeting
40 x 900 cm # 34 66 901

The VACUFORM surgical sheet is equipped **with 8 handles** for turning and repositioning the patient. Its outstanding features include high durability, silky comfort and

- a long service life. The material consists of three layers:
1. A soft velour surface.
 2. A extremely absorbent Triton™ layer able to handle up to 1.25 liters of liquid per m².
 3. A layer impermeable to liquid to protect the surgical mattress and operating table.

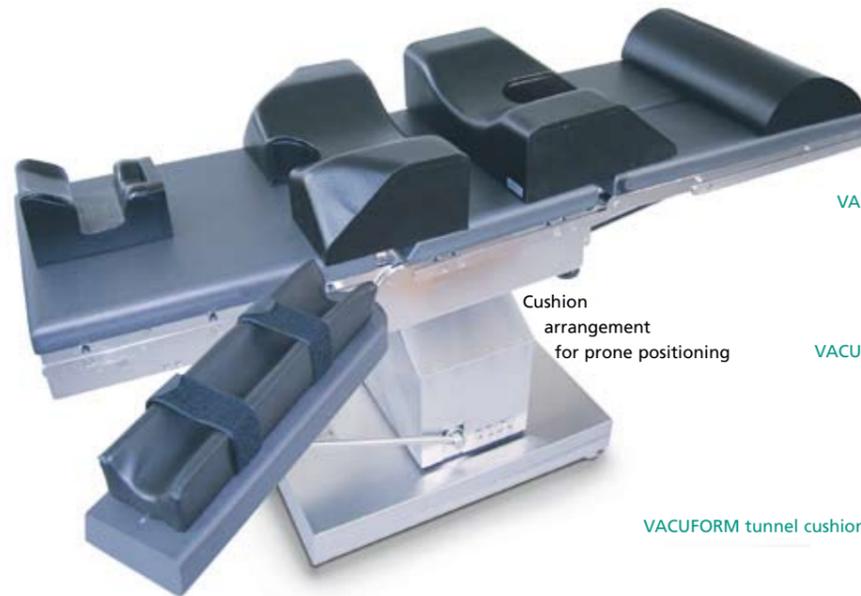
The composition of the fibers used effectively prevents rewetting, so the VACUFORM surgical sheet essentially **always feels dry.**



VACUFORM surgical sheet 80 x 220 cm
34 70 000

The additional product selection of **surgical positioning aids** offers situational support in positioning the patient correctly for the operation.

VACUFORM surgical positioning aids



Cushion arrangement for prone positioning

VACUFORM half-roll 50 x 18 x 9 cm
Synthetic leather, black # 34 66 700

VACUFORM lumbar cushion 50 x 23 x 3 cm
Synthetic leather, black # 34 66 701

VACUFORM shoulder cushion 50 x 45 x 10 cm
Plastic covered, black # 34 66 702

VACUFORM tunnel cushion for leg positioning in the side position
65 x 40 x 22 cm
Plastic covered, black # 34 66 703

VACUFORM head cushion for prone positioning
PUD coated, black # 34 66 704

VACUFORM thorax cushion, type AB for prone positioning
PUD coated, black # 34 66 705

VACUFORM pelvic cushion, type AA for prone positioning
PUD coated, black # 34 66 706

VACUFORM ulnar cushion, type AD
Synthetic leather, black # 34 66 707



The VACUFORM surgical sheet

VACUFORM surgical positioning aids are Bisanz brand quality products

