



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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The optimized, advanced
surgical bedding concept

**NOW: WITH
MICROSPACE
SYSTEM**

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

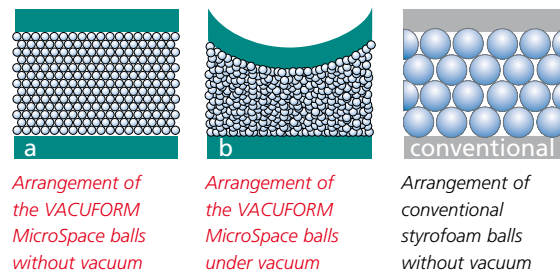
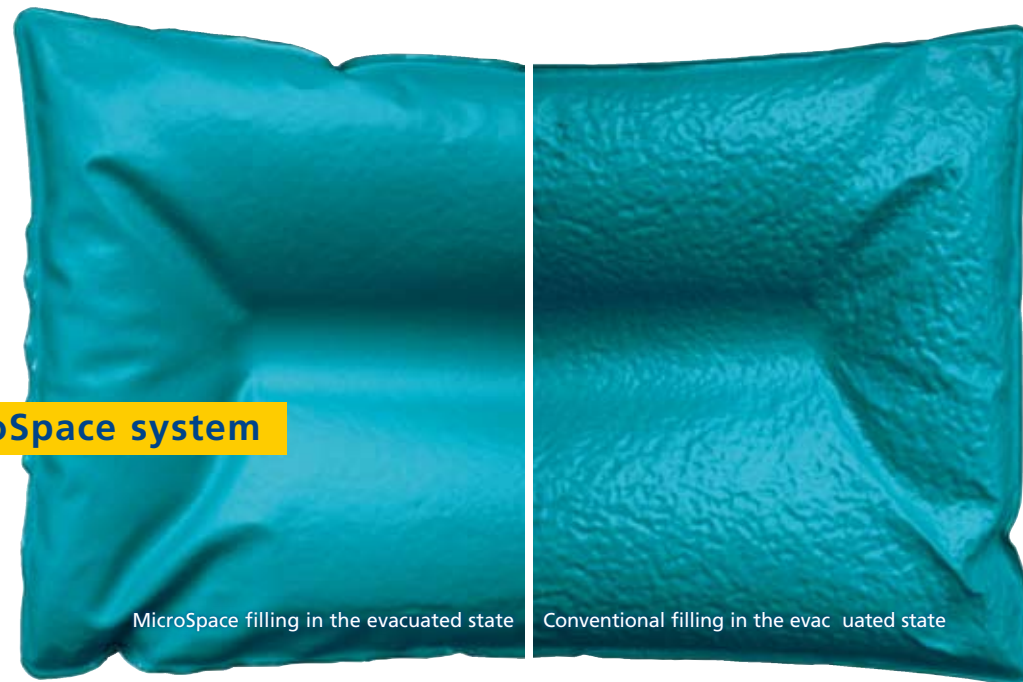


VACUFORM® The standard for quality and safety in the hospital of the future



New: The innovative VACUFORM MicroSpace system

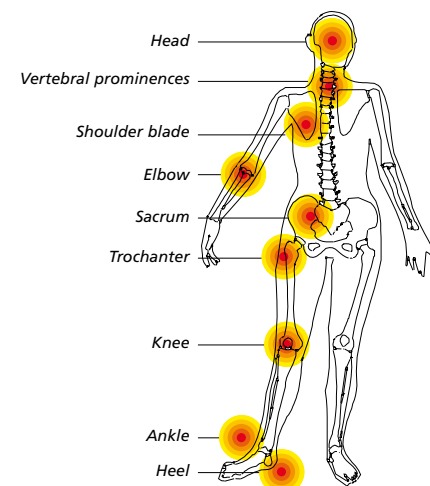
- Further optimized pressure relief
- "Weightless" feeling (like a waterbed) despite stable immobilization
- Surface nearly untextured



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).

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.



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

*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

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.

»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.«

Cost reduction with VACUFORM

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

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

4 The product benefits of VACUFORM surgical mattresses

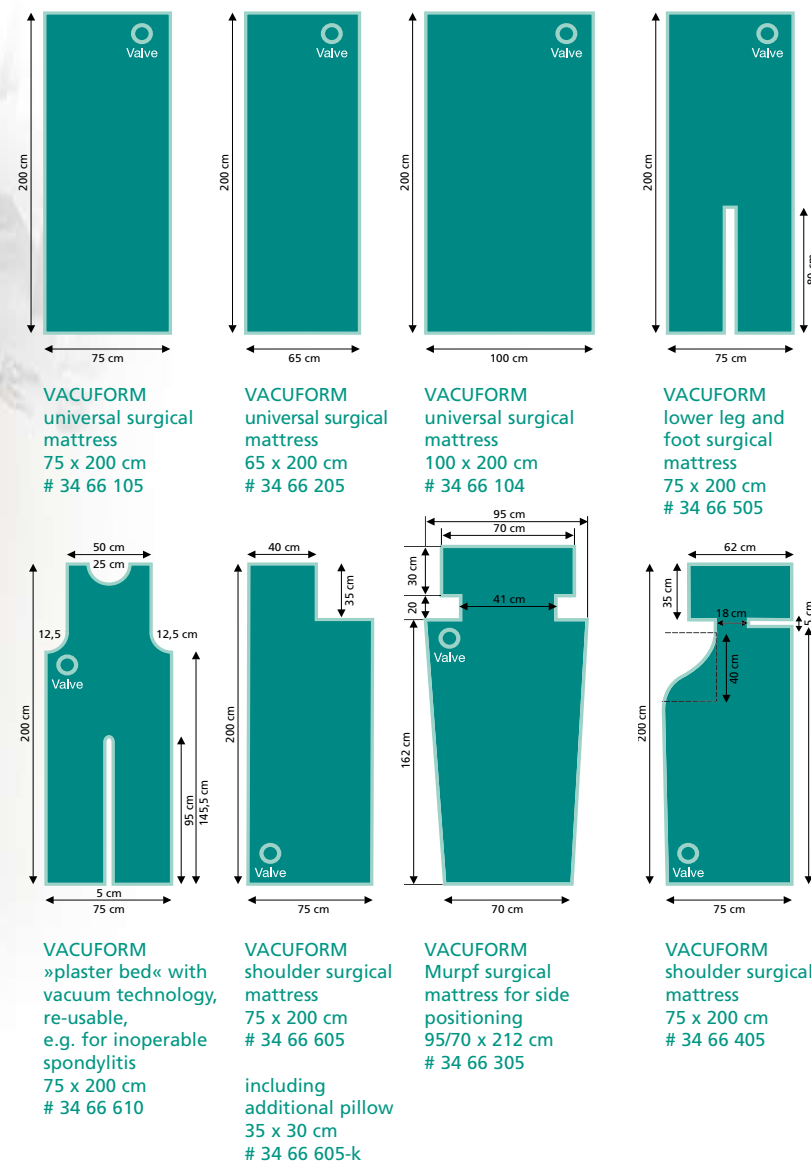
- X-ray permeable
- Suitable for MRI and CT
- Image converter application possible during surgery
- Latex-free

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



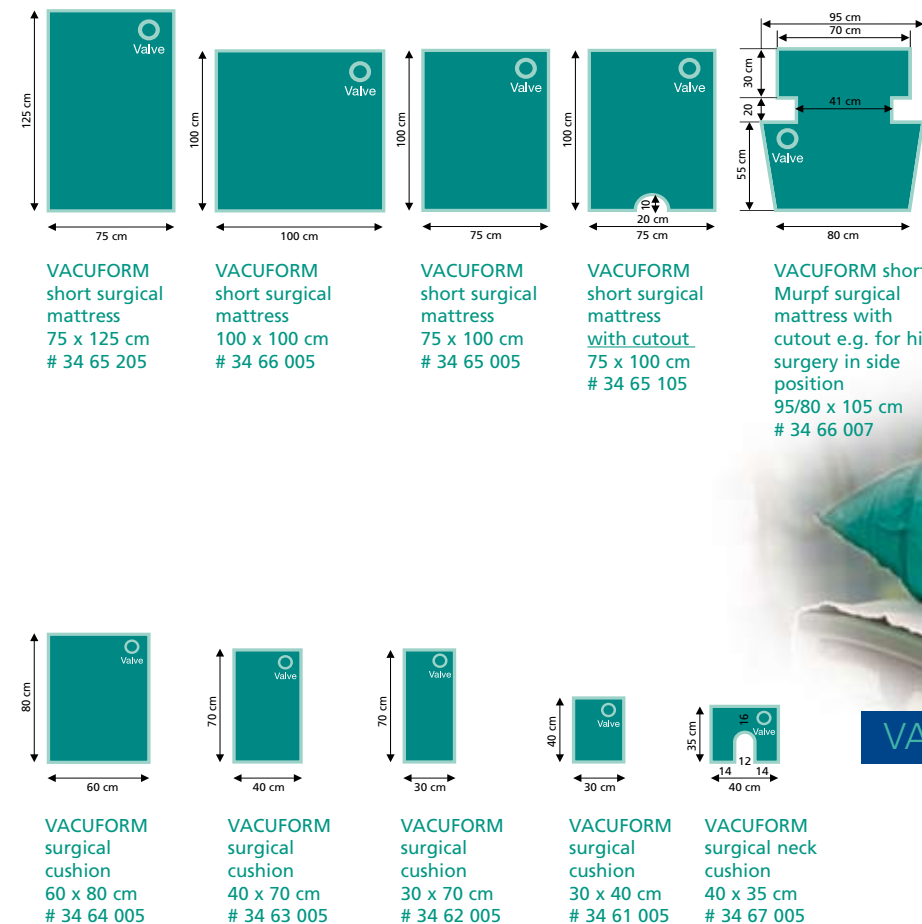
This specially developed hood encloses the entire head and fits the head ideally using the VACUFORM principle. The valve for evacuating the air is on the outer left side of the hood; there is an opening on the outer right side which enables styrofoam balls to be added or removed to obtain an **ideal 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 mattresses



VACUFORM surgical cushions

