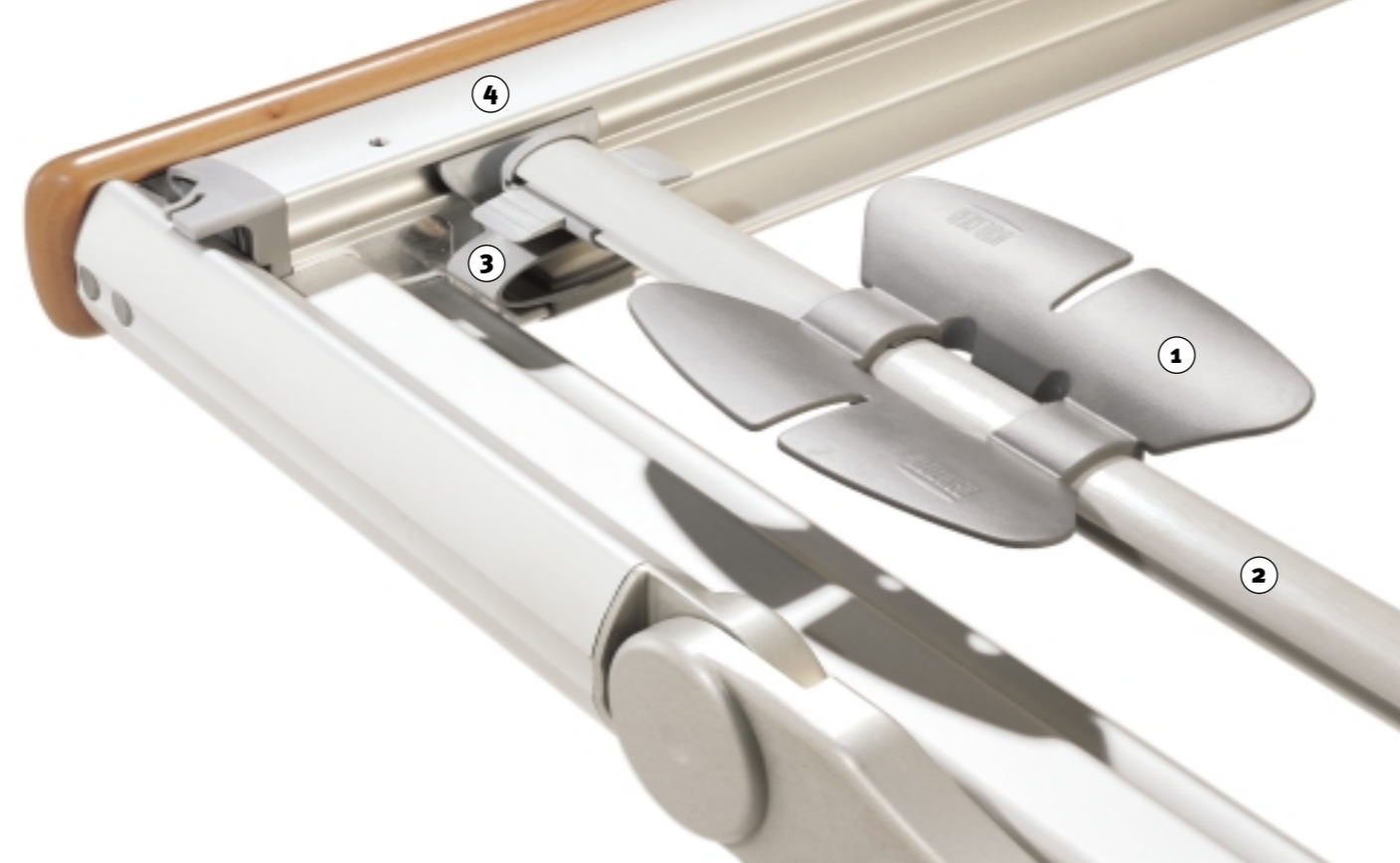




**Taking it easy – the new way of lying in bed**  
Völker MiS® Micro-stimulation

ProSell APF 5804e 09.03.2.000  
Subject to alteration without notice.



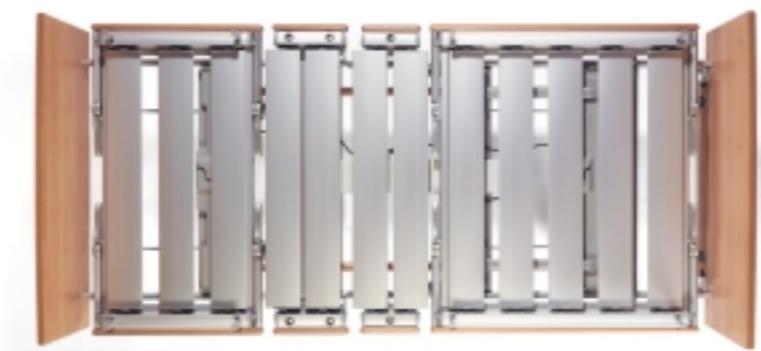
- [ 1 ] butterfly spring
- [ 2 ] support profile
- [ 3 ] suspension unit
- [ 4 ] frame

torsional characteristics. In addition, a special component located inside the suspension units on the one hand attaches the suspension units to the aluminium raceway on the inside of the frame, and on the other gently dampens spring deflection when carrying heavy loads.

In summary, Völker's use of basal stimulation through the technology of MiS® Micro-stimulation provides another intervention to facilities concerned with pressure reduction. The idea of stimulating a resident through a sophisticated flexible spring system is now available at no additional cost. The benefit in comfort alone is more than justification for choosing to provide the Völker MiS® Micro-stimulation to all of a facilities residents. Since this technology is incorporated into every Völker bed there is an overall benefit to all residents in providing the greatest comfort, helping to prevent the conditions that cause pressure sores, and helping to maximize the conditions required for the healing of pressure sores. A system offering so many benefits at no additional cost is

an exception in this day and age. Addressing today's needs now, only from Völker.

→ In addition to the MiS® Micro-stimulation version, a lying surface is available with aluminium profiles also flexibly located in the suspension units.



## As you make your bed, so must you lie on it.

Seniors, those need of care and immobile individuals face unique challenges posed by continuous pressure above thresholds that contribute to pressure sores. The challenge of pressure reduction and an effective intervention is also a concern for caregivers.

In cooperation with Thomashilfen and the Institute for Innovation in Health Care and Related Research (IGAP), Völker has developed an effective anti-pressure sore positioning system specially tailored to Völker healthcare beds: MiS® Micro-stimulation System.

The individual independence of residents is maintained and enhanced by this system of interconnected butterfly springs, support profiles and suspension units that cause specific pressure changes and topical stimulation. This helps promote the body's natural blood-circulation thereby reducing conditions that lead to the development of pressure sores.

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. As a result, microcirculation in 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.

Find out how the Völker MiS® Micro-stimulation System works on the following page – and how it can help your caregivers and your bottom line.

## Lying on wings: The Völker MiS® Micro-stimulation System.

### The problem.

The latest figures indicate that up to 30 percent of residents in health facilities for seniors will be susceptible to pressure sores. According to current research carried out by the Institute for Innovation in Health Care and Related Research (IGAP), up to 70 percent of those at risk do not have the benefit of a specialized mattress system. The condition of these residents will actually deteriorate because they continue to occupy 'traditional' sleep surfaces. In some cases even residents already suffering from pressure sores may not have the availability of special positioning systems. The high cost of these systems means that they are generally not available to all residents.

IGAP research has shown that even with the best care, there is room for improvement in existing care for all residents and in the type of positioning systems that are available. Today it is clearly no longer sufficient to concentrate simply on pressure reduction. New concepts in pressure sore prevention are becoming available and, as with Völker and MiS® Micro-stimulation, these concepts can be available to all residents. Combined with tilt in space positioning and mattress compensation features, MiS® Micro-stimulation allows Völker to address issues of mobility, sensory perception and comfort.

### Can independent mobility be encouraged, pain be minimized and cognitive awareness be improved?

A new concept of basal stimulation recently introduced to healthcare facilities provides alternative solutions to some of these questions. The goal of basal stimulation is the stimulation of a resident's perceptive and communicative abilities as well as their mobility. Basal stimulation uses the transmission of bodily and environmental stimuli to encourage independent mobility. Through this increase in mobility there is a gained advantage for the resident in reducing one of the contributing factors of pressure sores. The basic assumption of basal stimulation is that movement can only take place when sensory stimuli are provided the resident.

This differs from traditional positioning systems that isolate the resident from stimuli in an effort to reduce pressure sores.

### Movement or mobility has many positive effects on both physical and mental well-being.

In relation to pressure sores, physical activity constantly shifts the pressure being exerted on susceptible or already affected parts of the body. As a result, microcirculation within tissue is maintained, pressure points on the skin avoided and the integrity of the capillary vessels are left unharmed. This maintenance of good circulation within the skin reduces the occurrence of pressure sores and stimulates healing.

### These basic precepts of basal stimulation, ie self-awareness and mobility, were applied to the development of an innovative anti-pressure sore system.

In co-operation with Thomashilfen and the Institute for Innovation in Health Care and Related Research (IGAP), Völker has developed an effective anti-pressure sore positioning system specially tailored to Völker healthcare beds: the Völker MiS® Micro-stimulation System. This is a patent-protected system of basal springs in which various components maintain and enhance residents' independent mobility by means of specific pressure changes and topical stimulation. This ensures natural blood-circulation in the body tissue, thereby reducing the development of pressure sores, or facilitating the basic conditions for healing them. To achieve this, the lying surface of Völker healthcare beds is made up of numerous butterfly springs (design by Lattoflex) that have been further developed by Völker for use in the healthcare setting. The high number of flexible contact points ensures a pleasant and comfortable sensation when lying down. The butterfly springs are made of polyoximethylene (POM), a recyclable plastic with high elasticity and shape-retention. Due to their characteristic torsional movement com-

pared with individual elasticity, they are capable of exceptional conformity to individual body shape or the position and posture of the resident. The individual movement of each section of this lying surface is a significant advancement over traditional pan, wire and spring or slat type surfaces.

The butterfly springs are removable and completely adjustable on the second component of the Völker MiS® System, the flexible support profiles manufactured from glass-fibre reinforced plastic by means of a special process known as 'pulltrusion'. In comparison with conventional wire and spring lying surfaces (wood sprung slats in Europe), for example, significantly improved torsional performance is achieved by the glass-fibre reinforced plastic support profiles used on Völker beds (see below).



*The position of the individual butterfly springs can be adjusted on the support profiles. For easy cleaning, the butterfly springs individually or along with the support profiles can be removed from the mattress-frame.*