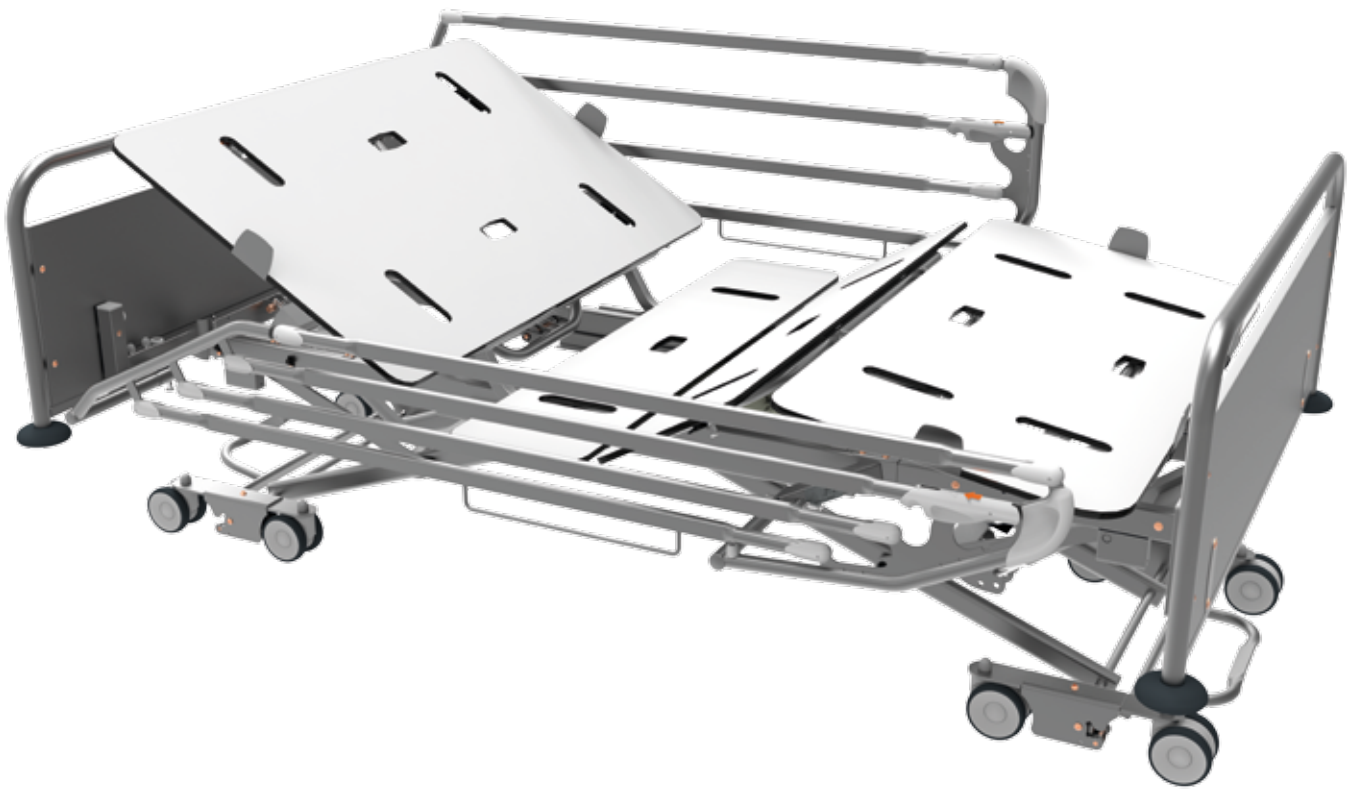


MMO 8000

Bariatric Ultra-Low Bed



medstrom⁺

Improved Patient Outcomes

Caring for Bariatric Patients

Medstrom understand that caring for bariatric patients can create many challenges for both patients and care staff especially if they are on equipment that is not suitable to meet their needs, or if equipment is unavailable.

These patients can often have a body shape that can make the simplest of nursing procedures more difficult to perform. This is true for tasks like mobilising, repositioning, turning, basic hygiene and wound care.

The Obesity Challenge

Obesity is now recognised as a global epidemic. Obesity rates in the UK and Ireland are among the highest in Europe and have increased dramatically over the last few years to such an extent that around 25% of adults are now classed as obese.

KEY FACT:

In the UK, 3.6% of women and 1.8% of men are classed as severely obese¹.

Obesity increases the risk of a number of health issues including heart disease, diabetes, musculoskeletal disorders, cancers, depression and anxiety. Severely obese individuals are three times more likely to require social care than those with normal weight, resulting in an increased risk of hospitalisation and associated health and social care costs and nursing risks.

Effective Falls Prevention and Safe Mobilisation

Falls and fractures are a common and serious problem affecting many patients, with over 250,000 falls and more than 1,000 fractures reported each year from hospitals in England and Wales alone.

A significant number of falls result in death or severe or moderate injury, and a significant number of falls in the hospital environment occur when the patient is trying to mobilise around the bed space.

KEY FACT:

The direct cost of falls in UK hospitals is around £15 million a year, which is equivalent to approximately £92,000 for an 800-bed acute hospital trust².

Gait disturbances and immobility issues in obese patients place these patients at an increased risk of falls. In cases where the patient is able to mobilise from the bed, an ultra-low bed with the ability to set a custom-height position can provide an effective part of a falls prevention solution.

Introducing the MMO 8000

Medstrom's focus is to select the most appropriate range of bed platforms to help prevent falls and patient injury. The MMO 8000 bariatric bed will lower to an ultra-low height from the floor, a feature that offers several benefits to the patient and caregiver. Patients who are restless, confused and vulnerable whilst in the bed and are at risk of falling out the bed can be nursed at an ultra-low height, thus ensuring that risk of injury is minimised.

KEY FACT:

A query of five years of reports to the Pennsylvania Safety Reporting System (PA-PSRS) database identified that 20% of class III obese patient reports related to falls. This was higher than the percentage of falls event reports in the overall PA-PSRS population for 2011⁴.

Safer patient positioning

To prevent nosocomial infections, it is important that the patient is mobilised both in the bed and out of the bed. It is well documented that head of bed positioning will prevent nosocomial pneumonia, therefore achieving the correct head of bed angle is vital. The MMO 8000 incorporates a 'Safe Stop' positioning feature, eliminating the need for bending to check angle indicators and for guesswork.

- The backrest will automatically pause at the two most clinically beneficial positions of
 - 30° of head elevation, allowing greater residual capacity of the lungs and therefore improving oxygenation levels. It will also enhance the wellbeing of a patient who is recovering after surgery or someone who has been very ill
 - 45° of head elevation, a semi-recumbent position that enhances respiratory function, well-being and promotes the feeling of progress in mobilisation for the patient
- The electric backrest lengthens as it articulates to a maximum of 70°, extending the platform by 12cm. This accommodates a semi-recumbent then sitting position without pushing the patient

forward. It will also prevent slipping or sliding down the bed. This maintains position and enhances comfort as well as safety and will reduce the risk of tissue damage from shear forces in this vulnerable group of patients

- Trendelenburg and reverse Trendelenburg have an automatic 'back to flat' feature that removes guesswork, the need for angle indicators and unnecessary bending for caregivers
- A full cardiac chair position can be achieved via just one button. This position is a very important part of any patient's progress when mobilising. Often in busy clinical settings there are not enough nurses to assist patients into a chair, or there are simply not enough chairs. This stage of mobilisation is a key part of recovery – the earlier this is achieved the earlier patients will stand, then walk. This has obvious benefits for wellbeing, patient psychology and earlier discharge from hospital
- The MMO 8000 incorporates a bed extension of 18cm as standard, allowing a greater range of patients to be safely nursed on the bed

KEY FACT:

22% of patients who fall in hospital do so from their bed³.

Platform technology across the range

The MMO range of electric profiling beds incorporate platform technology with common functionality and controls. This delivers benefits for caregivers in terms of reducing the risks associated with medical device use through simplicity, familiarity and more standardised training. It can also deliver benefits in terms of reduced maintenance costs and down-time.

Create a safe environment that encourages independent mobilisation



Ultra-low sleep deck of just 21cm minimises potential for injury from falls.



A custom height can be programmed for each patient allowing safe mobilisation.



Four rail 3/4 folding side bars ensure patient safety even with deep therapy mattresses.

KEY FACT:

A nine-year study covering over 356,000 patients was conducted at the Northern Hospital in Victoria, Australia into the associations between the occurrence of serious fall-related injuries and the implementation of ultra-low beds. Serious fall related injuries declined significantly throughout the period. When there was one ultra-low bed to nine or more standard beds there was no statistically different decrease in serious fall-related injuries. However, a significant reduction did occur when there was one ultra-low bed to three standard beds.⁵

Achieve safe and easy patient positioning, enhancing patient wellbeing



The wider width offers the nurse more space to move a patient safely. Simple nursing procedures become more achievable without the risk of caregiver injury and without patient anxiety.



The backrest automatically pauses at the 'Safe Stop' head of bed angles of 30° and 45°, ensuring effective patient positioning for improved respiratory function and removing the need for guesswork.



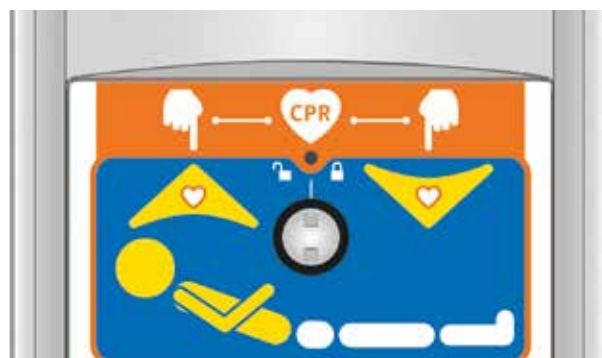
The backrest regresses as it lifts to 70°, lengthening the platform by 12cm, which reduces slipping thus reducing shear and friction and maximising comfort.



A full cardiac chair position can be easily achieved using one button. Manual adjustment of the calf section can enhance the chair position. This is an important first step towards early mobilisation and further supports pulmonary function.



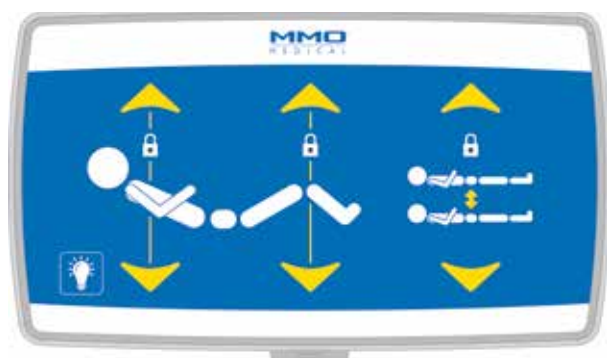
Trendelenburg and reverse Trendelenburg ($\pm 14^\circ$) has an automatic 'back to flat' feature, avoiding guesswork and the need for the caregiver to bend.



Electric CPR returns the patient quickly and smoothly to a position where cardiopulmonary resuscitation can be performed.

Simple and easy to use

Standardised controls across the entire MMO range promote familiarity and assist with caregiver training. The intuitive five-function hand control is simple to operate and encourages patient independence. Functions may be locked out as required. A patient handset and caregiver control are available as options.



Three function patient handset (top) and caregiver control panel (bottom) available as options.



100mm x eight castor design ensures smooth and easy movement of the bed even over uneven surfaces and helps combat the manual handling challenges when caring for a bariatric patient.



Easy to use bilateral, manual CPR function in addition to electric option.



Excellent access for all designs of hoist.



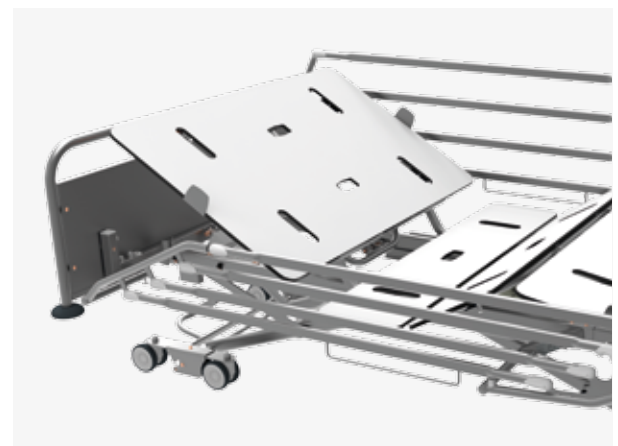
Easy to clean



The head and footboards and HPL sleep deck panels can be easily removed for cleaning.



The powder coated frame has an open design, giving superior access for cleaning.



Technical Specification

Dimensions

Dimensions of sleep deck:	200cm x 100/110/120cm
Dimensions of bed frame:	214cm x 115/125/135cm
Minimum height (from top of sleep deck):	21cm
Maximum height (from top of sleep deck):	83cm
Bed length extension:	18cm
Pre-set heights:	28cm & 24cm
Safe working load:	340kg (53st) Maximum patient weight 250kg (39st)
Electric, shear-reducing back angle adj:	to 70°
Knee angle adj:	to 30°
Manual calf section angle adj:	20°
Electric Trend/Reverse Trend:	14°
CPR:	Electric or bi-lateral manual with dampened action
Head & Footboards:	HPL, removable without tools
Eight-wheel double castors:	100mm
Warranty:	10 years. 5 years on motors and electrical components

Rental Options

Rental fleet specification is 110cm wide sleep deck (120cm total width). The MMO 8000 is available to rent with the Protecta high specification foam mattress or TurnCair 1000 low air loss surface with assisted turn feature.

Options & Accessories

- Patient three-function control on flexible arm
- Caregiver control panel, five functions
- Telescopic wall protector
- Night light (located under bed)
- Padded covers for side rails
- Foot and gap fillers for three or four bar long folding side rails
- Patient helper
- Oxygen bottle holder
- IV poles

References

1. Public Health England
2. National Patient Safety Agency. Slips trips and falls in hospitals. London: NPSA, 2007
3. National Patient Safety Agency. Using bedrails safely and effectively. London: NPSA, 2007
4. Pennsylvania Patient Safety Advisory. Class III Obese Patients: The Effect of Gait and Immobility on Patient Falls, 2013
5. Reducing serious fall-related injuries in acute hospitals: are low-low beds a critical success factor? Anna Barker, Jeanette Kamar, Tamara Tyndall and Keith Hill. Journal of Advances Nursing, Jan 2013

Ireland

Tel: 01 686 9487
Email: sales@medstrom.ie
www.medstrom.ie

UK

Tel: 0845 371 1717
Email: sales@medstrom.co.uk
www.medstrom.com

2 Cygnus Court, Beverley Road,
Pegasus Business Park,
Castle Donington, DE74 2SA

MMO 8000 manufactured by MMO International, France

