

Tri-Pos³



The first alternating air system for Very High Risk patients that *transforms* itself into many positions

- Better profile comfort for domestic and community beds
- Offers therapy for heel ulcers up to Grade IV (Sterling)
- Lateral Position Holding – containing muscle spasm/sacral ulcer therapy/30° Tilt
- Turn.aido – our latest revolutionary design - makes it easy to do patient turns



- Better comfort and quality of life
- Faster positional changes
- Less slippage down the bed = fewer nurse back injuries
- Easier handling of heavy patients
- Simple to use
- Risk category: Very High Risk
- Winner of the Millennium Products Award for design innovation

Tri-Pos³ | the new revolution:- bringing better patient handling to pressure care.

Tri-Pos³ the unique alternating air system that gives easier patient handling

- Transforms itself to suit different patient requirements.
- Reduces time and stress demands on busy nursing staff.
- Sets new standards of patient comfort and pressure care.
- Empowers relatives and carers.

Position 0

Flat Position - for normal sleep

- Large alternating air cells for the abdominal section stimulates reactive hyperaemia
- Small alternating cells under the leg section
- Foam filled orange leg under-section (shown here flat)
- The whole system fastens to a divan or hospital-style mattress



Position 1

High Heel - Fast therapy for heel ulcers

Tri-Pos³ transforms in seconds to give total pressure relief for serious ulcers (grade IV), day or night. The orange segment is easily folded whilst the patient is on the mattress, letting the weight of the lower leg be spread evenly by the alternating air cells: This gives the foot zero pressure all the time.

- Equally effective when the patients is supine, tilted at 30°, or fully on their side.
- Adjustable to the tallness of the patient.
- Allows easy dressing of established wounds.



Position 2

Profile - reducing shear stress

20°



For chest drainage Integral back rest raised & orange segment folded.

30°



For sleeping without slipping down the bed. Orange segment is coiled to create a ramp effect. Note the absence of digging-in by the heels.

30°



For better quality of life. The coiled orange section prevents downward slip with its consequent chest compression and lower back pain. The flexibility of the leg section's air cells allows for pillows to be used against foot-drop. Footboard and headboard are reversed.

40°



Better quality of life. Converts a divan into a specialist nursing bed system whilst maintaining a homely feel. The position of the orange coil can be adjusted to suit tall or short people. The alternating air cells continue to be effective at this angle.

Position 2

Profile - reducing shear stress

50°



For drinking or feeding. Support under the thighs both prevents the repetitive cycle of patients slipping down the bed and the need to lift them back up; it also reduces the damaging shear forces on the buttocks.

How to do it:

Step 1

The orange under-section is easily coiled or folded with patient on the mattress (backrest should be flat).



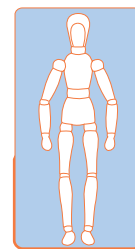
Step 2

By lifting backrest's handle, the patient can be quickly elevated to chosen angle. Good carer posture is maintained by keeping a straight back. Simple leverage principles help make it easy to lift an average patient single handedly.

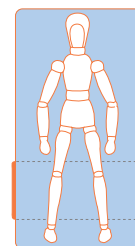


Step 3

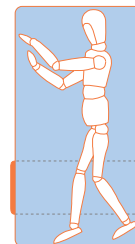
Note good cradled support under small of back. The integral backrest is securely fastened to both the air mattress and base mattress. Alternatively the backrest can be substituted for an electric mattress variator or an electric bed frame; fastening straps can still be used.



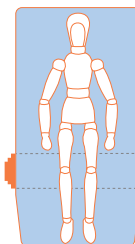
Flat



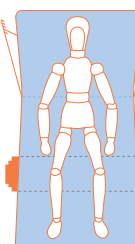
high heel



high heel side lying



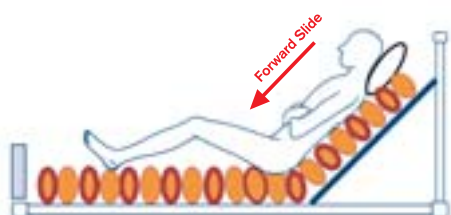
Profile first stage



Profile second stage

Tri-Pos³ Combats Shear

The latest shear calculation techniques from Rotterdam have found that the semi-recumbent patient suffers the most damaging shear forces to his sacral and ischial tissues when sitting up at 50°. Shear can be completely eliminated when the thighs and lower legs are supported at 25°.



Old-style air mattress

Patient is digging his heels in and therefore straining his hamstrings.

Reduced slippage down the bed reduces this time consuming lifting.



Tri-Pos³ = less nursing back strain

Position 3

Lateral Position Holding

The fast and easy new way to find more choice of comfortable positions

(A) Containing muscle spasm and preventing contractures



Patients such as those with stroke or multiple sclerosis are prone to muscle spasm. By positioning the orange coils ahead of the knees and behind the heel such spasms can be controlled - especially relevant at night. The position of the coils can be adjusted according to patient size and extent of any contractures. A pillow is added under the air mattress level with the shoulders to ensure full body support.

How it's achieved:

Lateral Position Holding reduces the need for lots of pillows and their continual readjustments.

The orange coloured under section can be split with zips into three strips; Whilst the patient is lying on the mattress, these can be quickly coiled to give a choice of support positions. Once set, the foam filled coils hold their set shape. The alternating air section drapes over the coils to give unimpeded air care.

The undersurface of *Tri-Pos³* is non slip, ensuring that the orange underlay stays in position as well as any supplementary pillows.



(B) Sacral Ulcer Therapy

90°



Serious sacral ulcers recover best when not laid upon. The posterior orange segment is coiled up to buttress the upper thighs or buttocks. The patient is prevented from relapsing onto their sacrum. The coils can be re-adjusted in seconds for the patient to lie on their other side.

90° - 135°



For an alternative position one orange segment can be folded to provide a platform for the bent knee; the other two segments are flat. 135° can be achieved when the patient's uppermost arm is raised above the head. Also suitable for some hemiplegics.

(C) Partial Profile

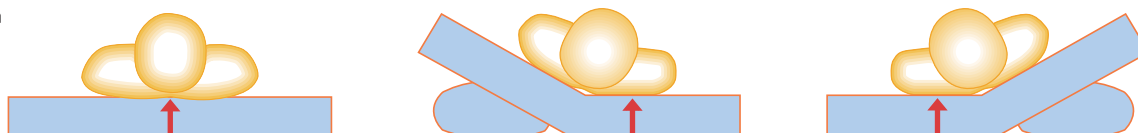
(not illustrated)

For unilateral amputees and leg traction. This position allows one leg to be flat whilst the other leg is supported by a coiled orange segment; this prevents slippage down the bed when the backrest is raised.

For bilateral amputees. The central orange section alone is coiled to give a pommel effect. With pillows under the *Tri-Pos³* mattress to cradle the shoulders, the backrest can then be raised - providing a better quality of life.

30° Tilt

Repositioning shifts main weight bearing points



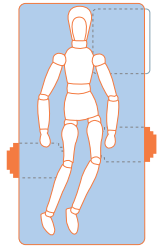


Bed frame courtesy of Turnwright Ltd

30° Tilt x 30°

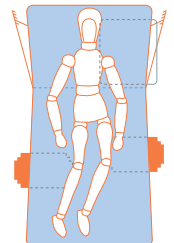
A further option is to raise the backrest to its second notch - 30° - giving tilt and profile. Here the patient feels secure and is prevented from slipping down the bed.

30° Tilt



30° Tilt

NB pillow under mattress in shoulder area



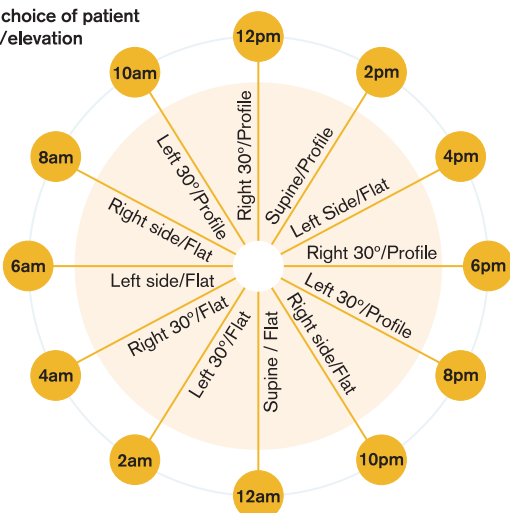
30° x 30° Tilt

(D) 30° Tilt

Positional change is necessary not just for pressure relief but also to relieve tendons, and to avoid pulmonary or urinary complications. The 30° Tilt greatly increases the choices available. Both orange side segments are coiled to mid-thigh level and a pillow is placed under the *Tri-Pos³* mattress to support the shoulders.

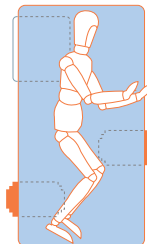
Tri-Pos³ Position Management Programme

Greater choice of patient rotation/elevation

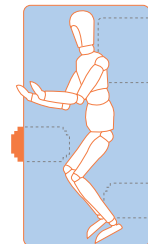


A Position Management Programme ensures your patients have a planned sequence of positions for best comfort and pressure relief.

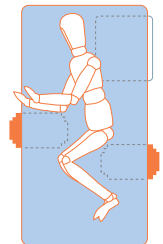
Muscle Spasm



muscle spasm

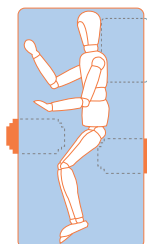


muscle spasm other side

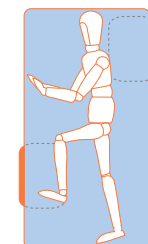


severe contracture

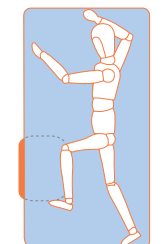
Sacral Ulcer Therapy



sacral ulcer therapy

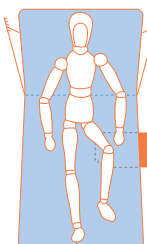


90°

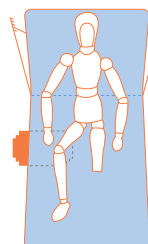


135°

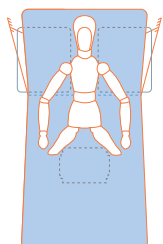
Partial Profile



partial profile leg traction



partial profile unilateral amputee



partial profile double amputee

Tri-Pos³ = easier patient handling

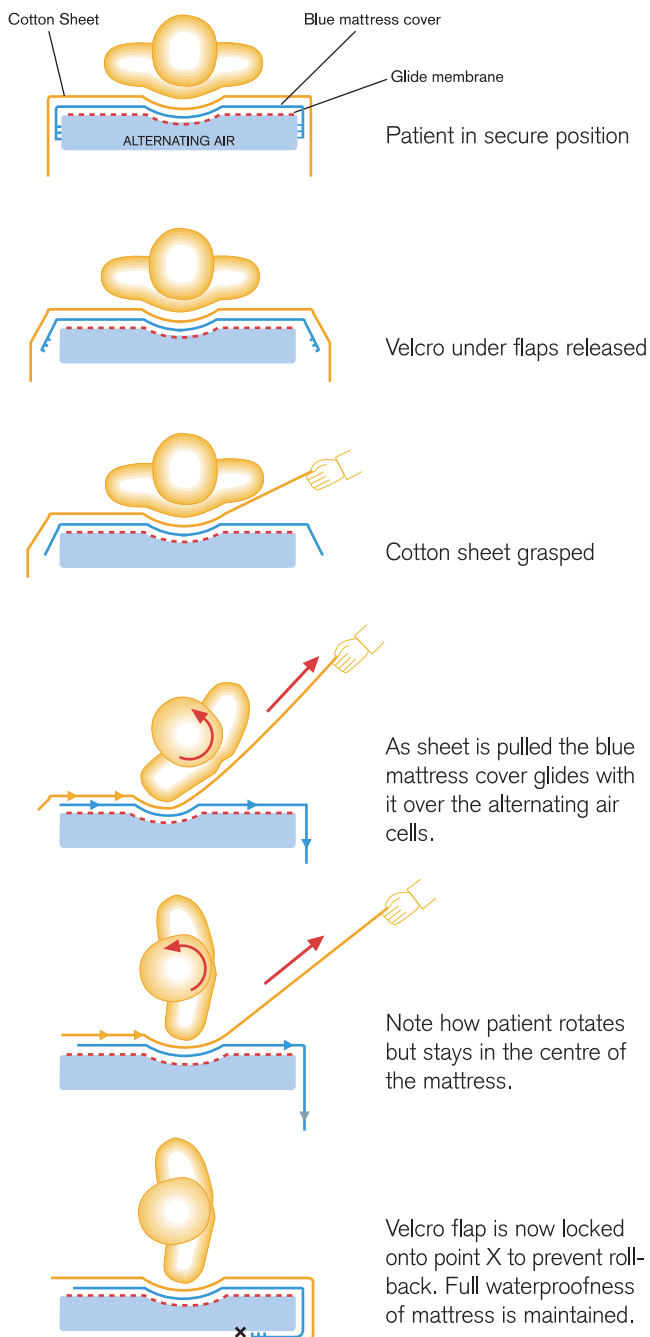
Tri-Pos³ + Turn.aido

Unique new Rotational Therapy System - *Patient turns, the easy way*

- Minimises patient lifting and nurse back-strain.
- Makes it possible for many patients to be turned by a single nurse.
- Empowers relatives to manoeuvre their loved ones without waking them up.

Excellent for the management of immobile or heavy patients, cases of severe pain, bone metastasis, multiple fractures, hip fractures and a variety of difficult problems.

The Turn.aido principle



Turn.aido



Before Turning

How it's done

1. Raise patient's furthest arm to head level; raise nearest knee to 90° flexion – to help the rolling of the hips.
2. Grasp cotton sheet level with shoulders and hips. Pull the sheet gently at 45° to rotate the patient to the desired angle of tilt. The integral glide membrane makes this action easy.

Turn.aido



After Turning

Note how the patient stays along the central line of the mattress. This is unique to *Tri-Pos³ + Turn.aido*. On a normal mattress wide patients come close to the edge when rolled on their side.

3. Now position orange coils and shoulder pillow as shown on the previous page in Lateral Position Holding.

Full choice of 30°, 60°, 90°, 135° degrees of turn available. These can be integrated into a full 24-hour Position Management Programme.

Tri-Pos³ + Turn.aido = less back strain



Carers can often carry out changes in position throughout the 24 hours rather than just relying on Community Nurse visits. Less sleep disruption. Less discomfort for the patient being turned.

Bed frame courtesy of Theraposture Ltd

Nurse is able to maintain a straight back, using her arms to do the turning. (Only a small sized bed sheet used in photograph for clarity)



Velcro can be released to carry out a turn then locked to secure the position. The glide motion is only side to side – there is no movement up and down the bed. The effect of any creases in the bed sheets is dispelled by the action of the alternating air cells, and the more frequent turns encouraged.



Helping patient out of bed: By gliding the linen bed sheet horizontally, the patient's whole body can be brought to the edge of the bed without lifting or reaching. The patient can now be sat up with the aid of the backrest; then their legs can be gently spun bringing them over the side of the bed. The carer can now help raise the patient with less stress to their back.

Returning to bed: The reverse movement can be performed if the blue flap's Velcro is pre-positioned under the mattress before the patient sits down.



Tri-Pos³ the system that transforms itself into three positions



Double Beds: Extension girth straps are available to fasten *Tri-Pos³* to a double bed (Code TP3XS). A **Companion** mattress is also available to maintain partners at the same height as the *Tri-Pos³* user. Filled with comfortable BodyPillo foam chip padding, this can be coupled securely to *Tri-Pos³* on either right or left side. Available to fit either 54" or 60" wide double beds. (Code TP3DB20 or TP3DB26 respectively)



Cushion: powered by the *Tri-Pos³* pump unit, this provides twenty-four hour Very High Risk Care. The mattress can be held inflated while the cushion is in use. The cushion base is non-slip. The zip is located underneath to minimize the risk of liquid ingress. The sides and front edge are secure for maximum stability. (Code TP3S)



Infection Control: Waterproof vapour-permeable covers can easily be wiped clean. If necessary the cover can be unzipped for laundering. Top cover seams are welded to prevent fluid ingress, and all its zips are shielded against contamination.



Extensive user instructions are permanently attached to the mattress.



Each air cell is made from high quality polyurethane for maximum reliability. They are replaceable in the event of accident



Easily transportable; the three elements of the *Tri-Pos³* system are easily assembled in a home.

Technical Data

Power supply: 220/240V ac 50Hz. Consumption 8 watts
 Cycle time: 12 minutes
 Mattress size: 2040 x 860 x 115mm
 Inflated cell height: Body section 115mm, Leg section 60mm
 Maximum Patient Weight: 140 kgs (22 Stone)

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 As our policy is one of continual development, we reserve the right to alter specifications without notice. This document relates to *Tri-Pos³* (version 3.9) and *Tri-Pos³ + Turn.aido* (version 4.3).

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