



Star Cushions

High Performance
Air Cell Cushions





Welcome to Star Cushion

Solutions for:

Pressure ulcers - Prevention and Therapy, Positioning - Symmetry and Stability.

It can take only minutes to develop a pressure ulcer, but months to heal. Preventing pressure ulcers is not complicated or expensive, but treating pressure ulcers is very costly. Research shows that more than 95% of all pressure ulcers are preventable.*

Tissue deformation can cause pressure ulcers.

Pressure ulcer research for the past 10 – 15 years has focused on the deformation processes in loaded tissues. These processes are a combination of pressure and shear when tissues are deflected around bony prominences when seated or lying.

Research also shows that the amount and pace of tissue deformation, is strongly influenced by the supporting surface, in other words; for wheelchair users the seat cushion.

(Loerakker 2010, Levy 2013)

Immersion and envelopment reduce tissue deformation.

A seating persons body, should immerse into the cushion which should envelope the body tissue. This will reduce the tissue deformation and distribute the body weight over a larger area, which again reduces tissue deformation.

(Sprigle 2005)

* NPUAP compared costs for PU treatment with costs for preventive actions. Result: Prevention is cost saving (Barbara Braden 2012)

Jonas is 44 years old and uses wheelchair since 2005 when he was injured during kite surfing. His spine was fractured at level TH 7/8. Today he lives an active life with work and family.

Jonas has just started using a Star Stabil Air cushion and is impressed with it's comfort and stability.

Pressure Ulcers categories.

Pressure Ulcers are categorized from Category I: Non-blanchable Erythema (due to a wound deeper in the tissue), to category IV: Deep Wound with full tissue loss. Please note that a Category I ulcer should be treated as a wound and not as a redness.

See www.EPUAP.org/puclas for more information.

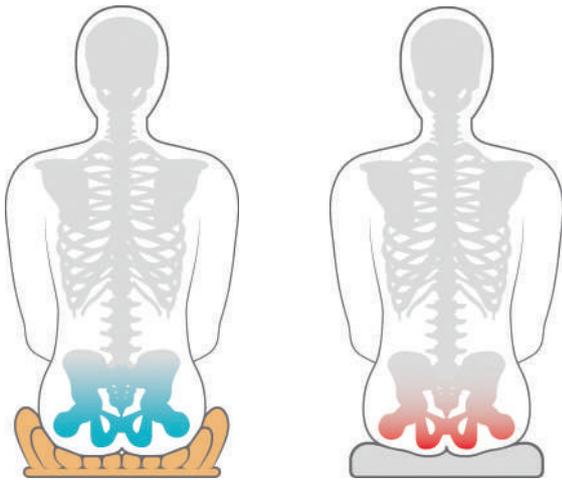
Risk analysis

To evaluate a person's risk of developing a Pressure Ulcer, use risk analysis scales like Braden or Norton's.



Star Air cell cushions

- Various models
- Best pressure redistribution qualities
- Made of high quality neoprene



A good cushion shapes and envelops around the user's body, instead of the body's structures being shaped by the cushion.

Star neoprene Air cell cushions

- Effectively envelope, the body structures
- Deform tissues minimally
- Increase the seated time compared to foam cushions

All Star cushions provide top of the range quality in preventing/healing pressure ulcers. They also have great positioning and stability properties. These qualities and properties provide comfort and increase sitting tolerance over time.



StarLock

Excellent pressure redistribution and unlimited positioning options.



Galaxy

Anatomically contoured
– Immediate immersion. Stable!



Stabil Air

Anatomical shaped foam within each of the air cells. Stable!



Standard Air

Fantastic pressure redistribution.



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StarLock

StarLock cushion combines excellent pressure redistribution qualities with nearly unlimited positioning possibilities and stability.

Air Cell Locking Technology

In air cell cushions the combination of pressure redistributing qualities, positioning and stability have always been a difficult compromise. StarLock solves all these requirements elegantly.

With its patented Cell Locking technology, the flow between the StarLock air cells can be locked and thus be custom fitted to the user's needs for positioning and stability while keeping its high pressure redistributing qualities. StarLock cushions provide the highest level of therapeutic prevention and treatment of pressure ulcers, for all pressure ulcers categories together with unique positioning possibilities and stability. Starlock is available in heights of 5, 7.5, 10 and 13 cm. For users with severe atrophy in the gluteal area, we recommend 13 cm cell height. The Starlock cushion can also easily be used as a one compartment cushion.



StarLock cushions come complete with a fitted cover that is smooth and stretchable, hand pump, manual and repair kit.

User weight

No limits as long as the correct sized cushion is used for the user.

Material cushion

High quality latex free gold coloured Neoprene. Adaptable and flame resistant.

Material, cover

Top & sides: 83% Rip Stop Nylon (Non absorbent fabric that aids in evaporating moisture) 17% Lycra. Bottom: Woven polyester fabric coated with polyvinyl compound. (Antimicrobial treated to inhibit growth of odor causing bacteria, mold and mildew.) Flame resistant.

Incontinence cover

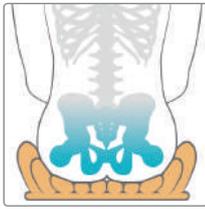
Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film.
Bottom: Woven polyester fabric coated with polyvinyl compound (see standard cover).

Cleaning

Cushion: Hand wash with soap, baking soda or vinegar. For disinfection, use 70% disinfectant solution. Covers: Machine wash 60 °C, no bleach.

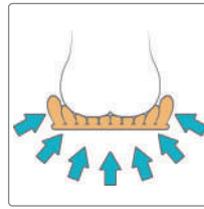


Features



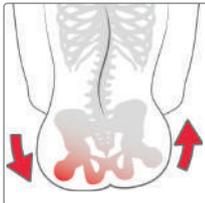
Immersion and envelopment

Allows the user to sink into the cushion. StarLock with high cells provides the best envelopment.



Pressure redistribution

Excellent pressure redistributing qualities, including category IV ulcers. The cell-locking mechanism also enables pressure free zones. For users with atrophy in gluteal area we recommend 13 cm cell height.



Correction of pelvic asymmetry

Creates a stable sitting position. The cell locking technology provides an individual and precise correction of pelvic asymmetries.

Adjustment options

To adjust air pressure and locking mechanism, see page 11.



Besides perfect pressure redistribution, StarLock also provides optimal conditions for foot propulsion.



Right front part has a lower air pressure in order to provide floor contact. Left thigh and pelvis are well supported.

Perfect pressure redistribution and a stable position that facilitates activity.

Accessory



Incontinence cover

Smooth and 4-way stretch. Breathable.



Star Galaxy

The Galaxy Cushion with two separate compartments front to back, combines multi-cellular air technology with a patented, contoured design, which supports specific areas and fits the anatomical form.

Unique shaped cells

The Galaxy cushion has uniquely anatomically shaped cells. The anatomical shape also provides immediate immersion and envelops around the user's body structure. It has good pressure redistributing qualities. As the Galaxy is divided into two chambers, the air pressure can be set separate for the sensitive region at rear.



The Star Galaxy cushions come complete with a fitted cover that is smooth and stretchable, hand pump, manual and repair kit.

User weight

No limits as long as the correct sized cushion is used for the user.

Material cushion

High quality latex free gold coloured Neoprene. Adaptable and flame resistant.

Material, cover

Top & sides: 83% Rip Stop Nylon (Non absorbent fabric that aids in evaporating moisture) 17% Lycra. Bottom: Woven polyester fabric coated with polyvinyl compound. (Antimicrobial treated to inhibit growth of odor causing bacteria, mold and mildew.) Flame resistant.

Incontinence cover

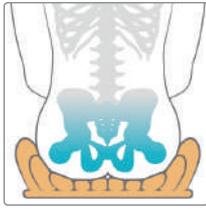
Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film.
Bottom: Woven polyester fabric coated with polyvinyl compound (see standard cover).

Cleaning

Cushion: Hand wash with soap, baking soda or vinegar. For disinfection, use 70% disinfectant solution. Covers: Machine wash 60 °C, no bleach.

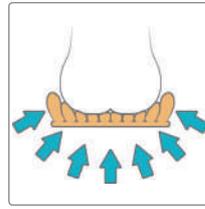


Features



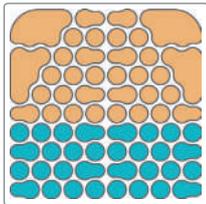
Immersion and envelopment

Pre-contoured cushion for a symmetrical position. Envelopes the body structure optimally.



Pressure redistribution

Excellent pressure redistributing qualities. Including category IV ulcers.



Adjustable front to back

Adjust the air under the ischial tuberosities area separate from the front area which supports the thighs.

Adjustment options

To adjust air pressure, see page 11.



Accessory



Incontinence cover

Smooth and 4-way stretch. Breathable.



Star Stabil Air

The Stabil Air cushion is the perfect blend of multi air cell cushion with soft foam tubes within each air cell.

Stabil Air – the new generation air cell cushion

The foam tubes in the Stabil Air cushion have different height. The tubes on the outside are higher, while those under the buttocks, coccyx and legs are lower, creating an anatomically shaped secondary layer of skin protection. This increases the stability and eases transfer to and from the cushion.

Stabil Air is a one chamber multicell cushion which is easy to use and provides stability.



Star Stabil Air cushions come complete with a fitted cover that is smooth and stretchable, hand pump, manual and repair kit.

User weight

No limits as long as the correct sized cushion is used for the user.

Material cushion

High quality latex free gold coloured Neoprene. Adaptable and flame resistant.

Material, cover

Top & sides: 83% Rip Stop Nylon (Non absorbent fabric that aids in evaporating moisture) 17% Lycra. Bottom: Woven polyester fabric coated with polyvinyl compound. (Antimicrobial treated to inhibit growth of odor causing bacteria, mold and mildew.) Flame resistant.

Incontinence cover

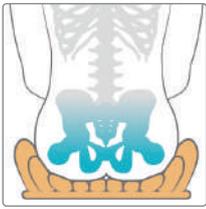
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Bottom: Woven polyester fabric coated with polyvinyl compound (see standard cover).

Cleaning

Cushion: Hand wash with soap, baking soda or vinegar. For disinfection, use 70% disinfectant solution. Covers: Machine wash 60 °C, no bleach.

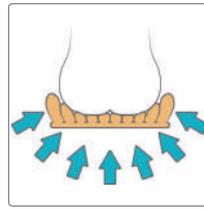


Features



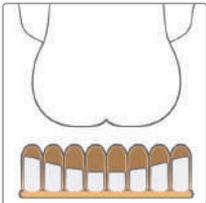
Immersion and envelopment

Pre-contoured cushion for a symmetrical position. Envelopes the body structure optimally.



Pressure redistribution

Excellent pressure redistributing qualities. Including category IV ulcers.

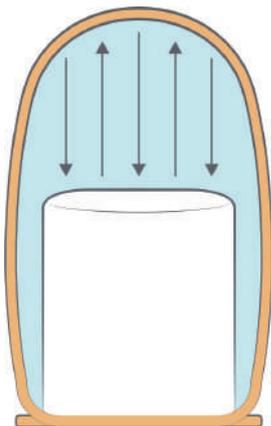


Anatomical shaped foam

The built in foam increases the stability and eases transfer to and from the cushion. If the multi air cell cushion loses air the user is still safeguarded.

Adjustment options

To adjust air pressure, see page 11.



- Each cell has an inbuilt soft foam tube
- All air cells are 7,5 cm high.

- The height of the foam tubes, creates an anatomically shaped design with higher tubes at the lateral sides.
- Stabil Air is the new generation one-chamber cushion.

Accessory



Incontinence cover

Smooth and 4-way stretch. Breathable.



Star Standard Air

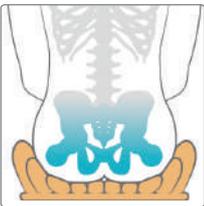
One-chamber air cell cushion with excellent pressure redistribution qualities.

High levels of immersion with excellent envelopment

Pressure redistribution is at its best with the enveloping qualities of the one compartment Standard Air cushion series. The flexibility of the Neoprene cells shaping themselves around the buttocks keeps the human cell deformation to a very low level. Standard Air is available in two different heights; 5 and 10 cm. The higher the cells, the better pressure redistribution qualities.

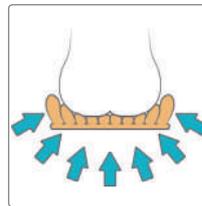


Features



Immersion and envelopment

Allows the user to sink into the cushion. StarLock with high cells provides the best envelopment.



Pressure redistribution

Excellent pressure redistributing qualities. Including category IV ulcers.

Accessory



Incontinence cover

Smooth and 4-way stretch. Breathable.

User weight

No limits as long as the correct sized cushion is used for the user.

Material cushion

High quality latex free gold coloured Neoprene. Adaptable and flame resistant.

Material, cover

Top & sides: 83% Rip Stop Nylon (Non absorbent fabric that aids in evaporating moisture) 17% Lycra. Bottom: Woven polyester fabric coated with polyvinyl compound. (Antimicrobial treated to inhibit growth of odor causing bacteria, mold and mildew.) Flame resistant.

Incontinence cover

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Cleaning

Cushion: Hand wash with soap, baking soda or vinegar. For disinfection, use 70% disinfectant solution. Covers: Machine wash 60 °C, no bleach.

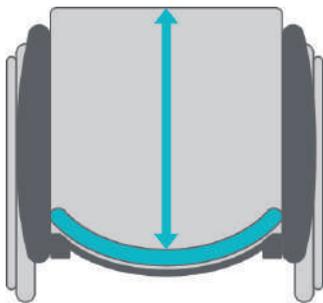


How and why?

Why choose a Star air cell cushion?

- Star cushions provide the highest level of therapeutic prevention and treatment of pressure ulcers, for all pressure ulcers categories.
- The higher the cells the better performance.
- Star cushions are renowned for their stability and positioning qualities.
- Star cushions improve the user’s sitting tolerance over time.

How to choose size



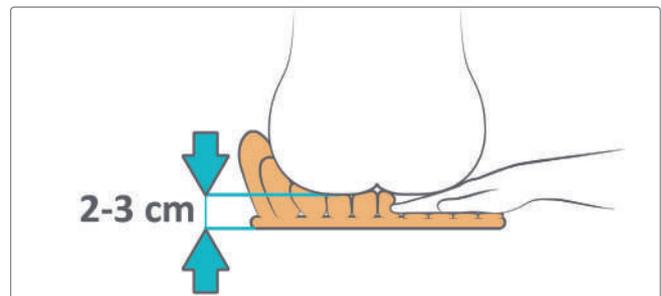
Width: If the seat size doesn’t exactly match the wheelchair width, we recommend one size bigger cushion, rather than one size smaller.

Depth: On a wheelchair with tension adjustable back upholstery, be sure to measure the seat depth correctly.

How to adjust the air pressure



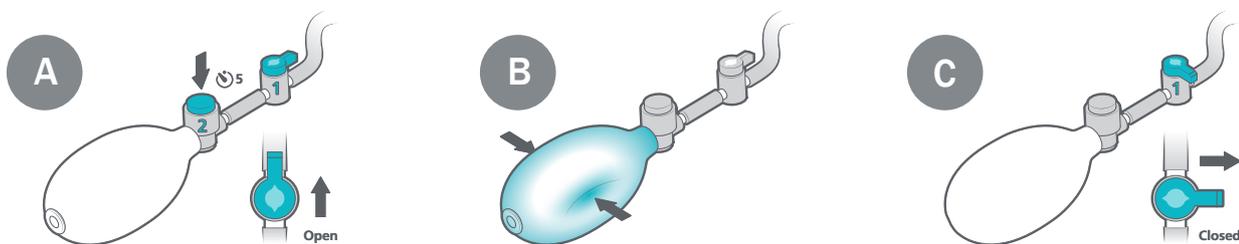
- Inflate the cushion.
- Position the user on the cushion.
- Let air out.



- Hand check, 2–3 cm distance between the cushion bottom and the users buttocks.
- With asymmetry, always check the lowest side first.
- If necessary, more air can be inflated with the user positioned on the cushion.
- With higher cells, the user will immerse deeper into the cushion and the pressure redistribution increases.

How to adjust StarLock Air Locking Technology

See Starlock (page 4)



A. Check that lever (1) is turned parallel with the tube (open).

A. Press button (2) for 5 seconds. Position the client in the desired position, keep this position for 10 seconds.

B. Squeeze the bulb approximately 20 times (until there is significant resistance to squeeze further).

C. Turn lever (1) to lock the setting.



The seated position is highly dependent on the seat surface. Good pressure redistribution and shape is important to create comfort and improve sitting tolerance over time. Air cell cushions have proven to be the best alternative. Star's unique air cell design also provides the best stability, which is essential to obtain postural control and enable activity.

We call it Ability based Seating™.



“Everyone should be able to live a free and independent life and pursue their dreams regardless of any physical circumstances”

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Etac AB
Kista Science Tower
SE-164 51 Kista, Sweden
Tel +46 371 - 58 73 30
Fax +46 371 - 58 73 90
info@etac.se www.etac.com

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