Inflatables for Healthcare

The power of compressed air

Ergotrics®

INFLATABLES FOR HEALTHCARE

20241203_Ergotrics _ Brochure_OR-v3_EN_A4

The power of compressed air in the operating room

Positioning and moving with compressed air.

Ergotrics specialises in positioning and moving patients with compressed air. We design and produce inflatable positioning devices that tilt and move patients more quickly, easily, ergonomically, hygienically and safely. All our product innovations are based on our knowledge of anatomy and physiology. In this way we can achieve better and more hygienic patient care, while improving working conditions and efficiency for healthcare workers.

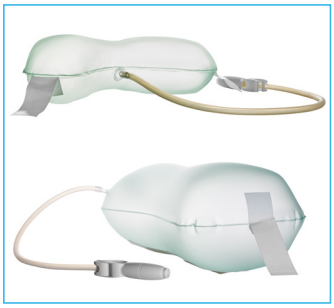
Products for safe and optimal patient positioning in the operating room:

01 | HUMMINGBIRD

A specially designed air pistol for use in the medical world.

Ensures safe use of 4-6 bar medical compressed air in the operating room to inflate and deflate our products. Compatible with the compressed air connection in the OR. With the HMB, you can adjust the hardness and height of the cushions to the unique anatomy of the patient and the specific requirements of the procedure at any moment.

02 | IPS



Inflatable Prone Support (disposable)

The world's first inflatable positioning cushion for surgery in prone position. Every body is unique and that's why the IPS is available in the sizes L (up to 150kg/330lb) and XL (up to 180 kg/400lb).

03 | IXS

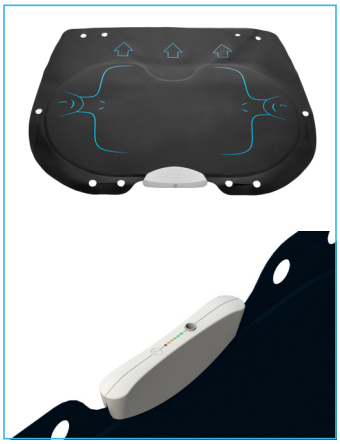
IxS-sickle

IxS-rectangular

Inflatable Support for multiple applications (disposable)

The IxS is an inflatable cushion that supports and positions body parts during surgical or medical procedures and examinations. The medical staff can choose the shape and size that best suits their surgical or medical needs and patient. Some examples: lifting the thorax for genupectoral/ salaam position, enabling temporary jackknife supine position during open vascular surgery (in hybrid OR), creating the indirect distraction during an ALIF procedure, ...

04 | IBO



Inflatable Board (reusable)

The ideal device for safe and controlled tilting of patients. A clear ergonomic progress in hospital care. The IBO is guaranteed for 250 applications and is provided with a pressure sensor. The sensor counts automatically how often the IBO has been used and displays the usages with the LED lights.

With the Ergotrics inflatable prone positioning system you can work much faster, more hygienically and healthier for the staff, both when the patient is transferred to the prone position and during the positioning itself.

- Prof. Robert Pflugmacher, Universitätsklinikum Bonn (Germany)

The ergonomic advantages are clear but we think that the optimal positioning will also result in less venous congestion with less blood loss and a clearer picture of the operation area. We are investigating this further.

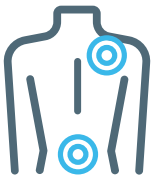
- Dr. Paul Depauw, Elisabeth Tweesteden Ziekenhuis Tilburg (The Netherlands)

Advantages

OPTIMAL POSITIONING

The IPS cushion is **designed as a mirror image of the human skeleton.** In this way, it supports the ribcage and pelvis, while leaving the abdomen free. This reduces the risk of skin damage, congestion and inter abdominal **pressure.**

REDUCTION OF BACK STRAIN



Lifting for hospital staff is kept to a minimum: 100% of our users say that no (40%) or minimal (60%) force is required to position patients in prone position. Even with patients over 100kg.

X-RAY TRANSMISSION

The Ergotrics solutions are **fully X-ray permeable**, which facilitates X-ray applications.

OPTIMAL HYGIENE

The positioning cushions can be used only once. They are glued to the patient's skin. This ensures **better hygiene** in the operating room while the **cushions remain in the correct position** when turning the patient.

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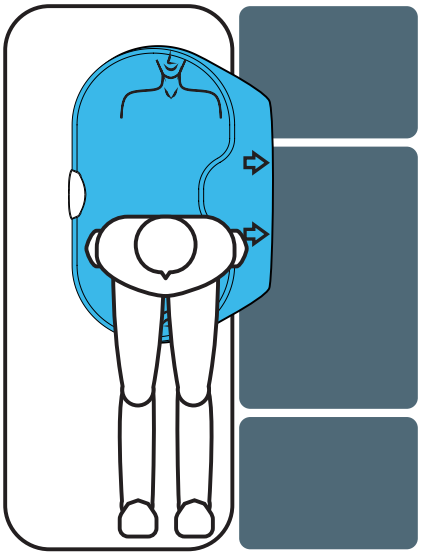
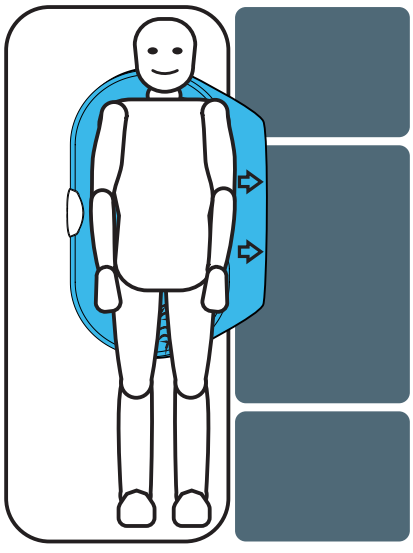
10 simple steps



STEP 1

Position the IBO (inflatable board) on the bed.

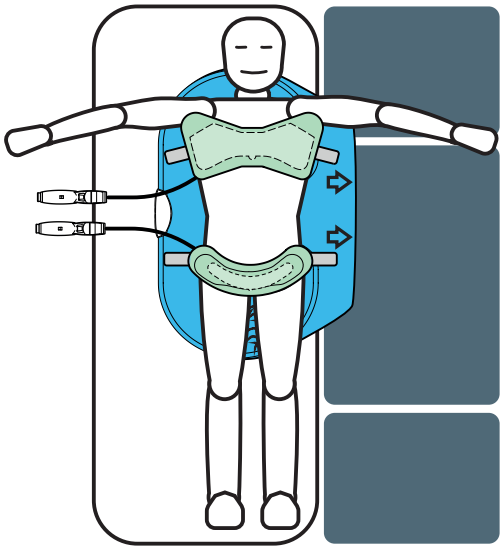
The flexible end of the IBO must be positioned onto the operating table..



STEP 2

Position the patient on the IBO in the supine position.

Assure full trunk (thorax and abdomen) is on the IBO.



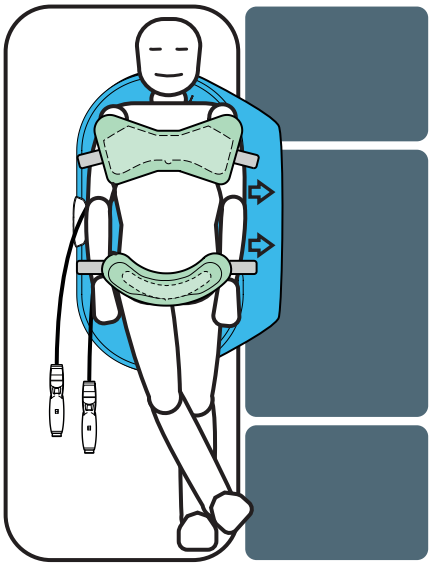
STEP 3

Spread the arms of the patient.

Apply IPS cushions on the patient using the skeleton (rib rack and pelvic crest) as a reference.

The tubes of the cushion divert to the navel.

Apply the side tape tightly to the patient's body.



STEP 4

Arrange the tube and valve next to the patient.

Put the arm of the patient over the tubing.

Cross the ankles of the patient over each other.

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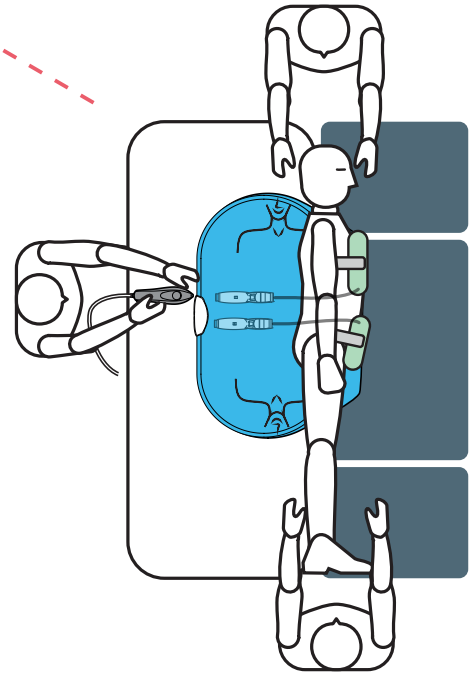
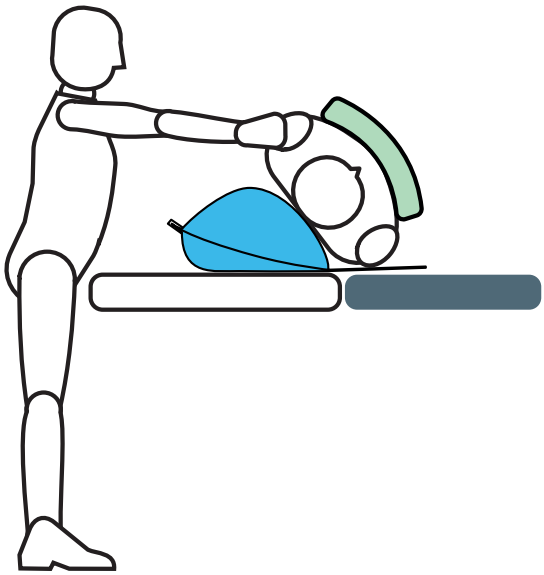
STEP 5

Inflate the IBO using the Hummingbird.

Inflating the IBO puts the patient into lateral position.

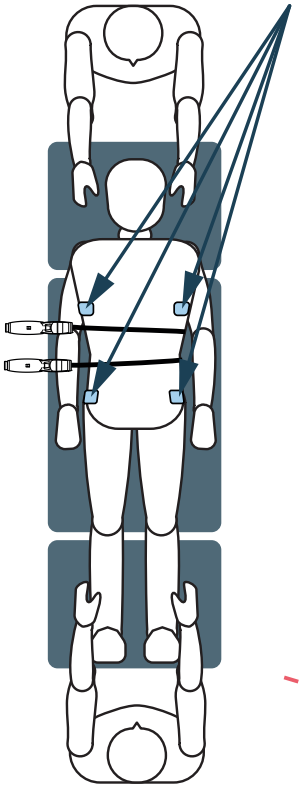




STEP 6

Roll the patient gently into prone position.

Hang the IBO on a hook, it will deflate automatically within less than 10 minutes.



STEP 7

Position the patient.

Put the arms of the patient onto the arm supports and release the side tapes.

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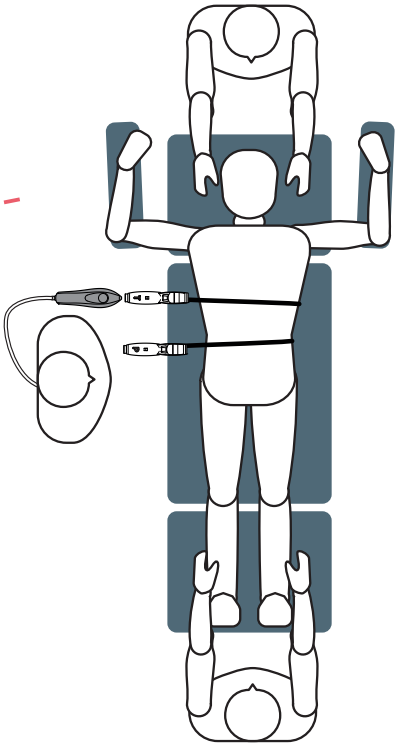
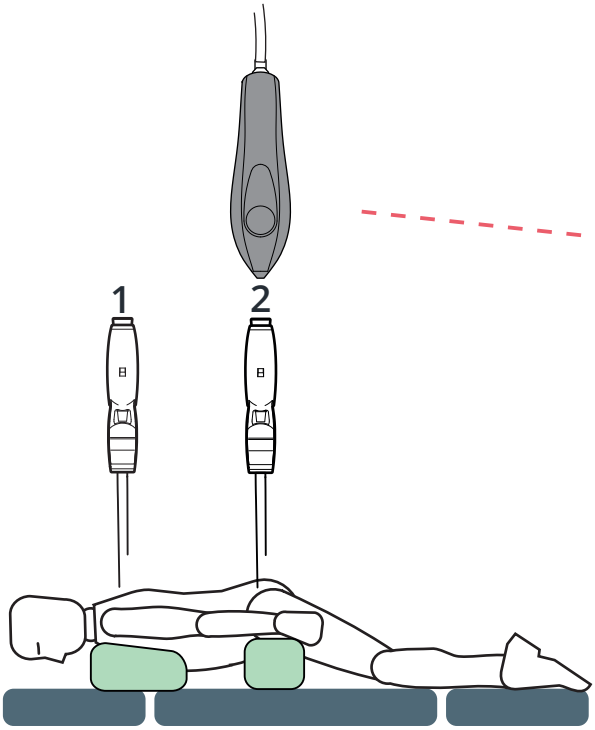


STEP 8
Inflate the thorax cushion.

While inflating, take care of the position of the neck.



STEP 9
Inflate the pelvic cushion.

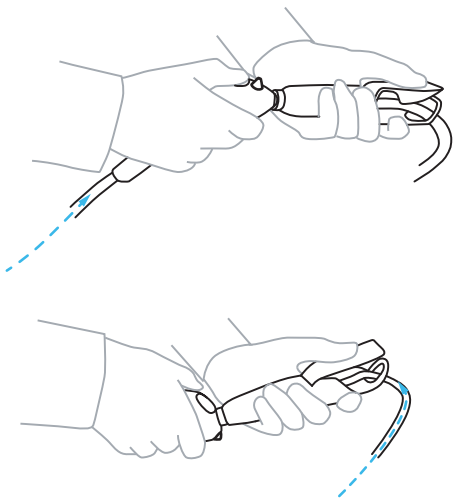
Stop inflation of the IPS when you hear a whistle.

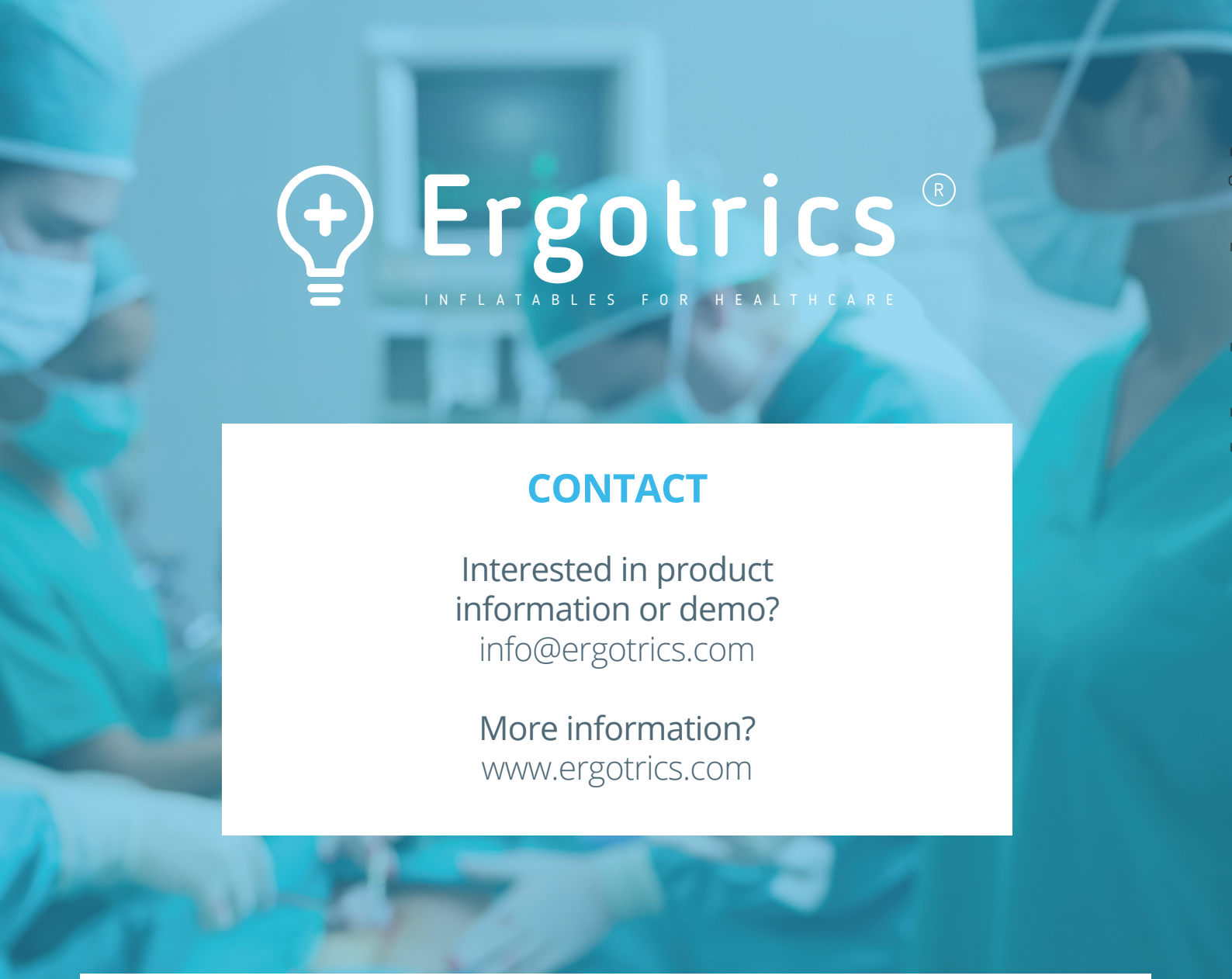
Inflating the IPS cushions puts the patient's body in the prone position with freehanging abdomen.

STEP 10
Let go and blow up.

Use the Hummingbird's cone to let off pressure if desired. Use the nose of the Hummingbird to inflate the IPS if necessary.

After the patient is turned back on its back, the hoses may be cut to deflate the IPS.





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CONTACT

Interested in product information or demo?
info@ergotrics.com

More information?
www.ergotrics.com

Application in the operating room

Turning patients from the supine to the prone position (proning) remains a technically and ergonomically difficult procedure. The correct positioning of a patient is extremely important for a successful operation and avoids post-operative complications for the patient.