Our products meet the requirements of ever increasing precision in radiation therapy

For more than twenty years, Orfit has been providing solutions for immobilizing patients in radiation oncology.

In recent years, both our products and our production technology have thoroughly evolved by using the most innovative materials and production techniques.

Based on an in-depth knowledge of the worldwide market, our team of engineers and product designers has developed optimal solutions that correspond with the requirements of ever increasing precision in radiation therapy.

Our products and our market support are destined to offer you an important added value in your daily clinical practice where assuring a comfortable, reproducible and highly precise position of the patient is of critical importance.

Our thermoplastic masks and hardware form a complete range of high quality immobilization and positioning products for all conventional radiation therapy procedures as well as for IMRT, IGRT, hypofractionated RT, SRT, SRS, proton and other high energy therapy systems.

Today, no other company in this highly specialized market masters the full cycle of requirements that lead to innovative and highly functional products.

At Orfit, we achieve this because we control the entire process of Research & Development, Manufacturing, Quality Assurance, Marketing & Sales and Customer Education. Thanks to this process, we offer optimal solutions for patient positioning and immobilization, everywhere in the world.

Our R&D and manufacturing activities result in a product offering for radiation oncology that consists of especially formulated thermoplastic materials for patient immobilization, and high precision hardware for accurate and comfortable positioning on treatment couches and diagnostic machines.

We bring innovation into the market, with a clear understanding of the needs of Radiation Therapy Specialists, the patient’s comfort and the requirements of the authorities.
Antibacterial coating

All Orfit masks are treated with a water-based non-stick coating that has antibacterial properties and that prevents sticking of the mask to skin, hair and hardware.

The antibacterial effect of the coating was determined using the ISO 22196:2011 test method. The results show a reduction of > 99.99% of the following bacteria:

- Methicillin-Resistant Staphylococcus aureus (MRSA)
- Staphylococcus aureus
- Escherichia coli
- Vancomycin-Resistant Enterococci (VRE)

MRSA, the so-called hospital bacteria, is the most common nosocomial infection in Europe. It is estimated that over 170,000 MRSA infections in Europe result in 5000 deceases every year. The department of Health and Human Services in the USA estimated 94,360 invasive MRSA infections in 2008, associated with 18,650 deaths each year.

The WHO considers the Escherichia coli as a “super bacteria” because it is increasingly resistant to antibiotics.

Hand hygiene helps to prevent infections but it is not sufficient. Therefore a thorough hygienic care of the patient and of medical devices is of prime importance to prevent contamination. The antibacterial coating on all Orfit masks helps to reduce cross-contamination within a radiotherapy department.
## HEAD, NECK AND SHOULDERS

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Today’s imaging and target localization possibilities allow you to see how your treatment plan corresponds with the location of the tumour. Based on this, corrections for better sparing of healthy tissue can be made. These innovative techniques can only be efficient if you are sure that your patient does not move during the delivery of the fraction.

The Patient Immobilization Systems from Orfit are an active component in achieving a high quality radiation therapy.

The unique features of our thermoplastic materials, in combination with our Head Supports with cranial stop and our L-profiles that fix the masks in the High Precision Hardware give you the possibility of choosing the most suitable mask for your patient and for the type of treatment that you have planned.

Thanks to a unique combination of advanced materials and innovative production methods, the Orfit system has achieved three critical goals for improving the quality of radiation therapy treatment:

HEAD, NECK AND SHOULDERS
**PRECISION/ACCURACY**

**Limit patient movement**

Overall Efficast mask stability limits patient displacement to less than 2 mm within the mask and approximately 1 mm when using Hybrid masks.

Low-stretch draping provides greater contouring and rigidity.

L-profile technology secures more of the mask to the base plate.

**REPRODUCIBILITY**

**Reduce daily shifts**

3D Head Supports with cranial back stop that cradle the patient’s head.

Well-defined and indexable thermoplastic masks insure consistent daily positioning.

Openings at the cranial end of the mask provide space for patients with long hair.

**PATIENT COMFORT**

**Increase acceptance**

Antibacterial non-stick coating with soft surface feel.

Comfortable foam head supports.

Thermoplastic material with engineered limited shrinkage.

Remould a mask when the patient’s volume has increased or decreased.

Cool activation temperature of 65°-70°C.

---

The antibacterial coating helps in reducing the spread of harmful microbes in a hospital environment.
A unique combination of high precision immobilization, ease of moulding, safety and patient comfort

Our engineering and production capabilities with proprietary thermoplastic formulations result in the best mask materials available. Stretch and shrinkage properties are always the same and assure a reliable mask moulding technique, resulting in a perfect fit around the patient’s anatomy and a high degree of patient comfort.

Orfit’s engineers developed a patented method [BE1015081] to measure the relationship between mask contraction and fixation force. The Orfit range of products allows for a perfect balance between patient comfort and restriction of movement.

Both mask contraction and fixation force are a measure for precision, stability and comfort of patient immobilization in radiation therapy.

Dr. Bogdan Bogdanov

STABILITY OF DIFFERENT IMMobilIZATION MASKS FROM ORFIT INDUSTRIES

Horizontal displacement of different mask types. Measurements are based on applying a lateral force of 100N on a dummy head that is immobilized with each mask.
Meet specific patient requirements

An extensive range of Orfit masks is available to meet specific patient requirements and your immobilization preferences.

> Chin only
> Head only
> Head and neck (with neck flap)
> Head, neck and shoulders
> Head, neck and shoulders with cranial flap
> Hybrid masks of all types for significantly increased precision of the immobilization and for use with large patients
> Open Face Hybrid mask
> Paediatric masks - All configurations for head, neck and shoulders.

Orfit masks are available with various combinations of prepunched cutouts for ease of use.

> Nose only
> Nose and mouth
> Nose, eyes and mouth

All Orfit masks have an antibacterial, non-stick coating.
A number of clinical studies have proven the effectiveness of Efficast in combination with Raycast High Precision Hardware.

**CLINICAL STUDIES**

Fuss, M. (2004), Repositioning accuracy of a commercially available thermoplastic mask system, Radiotherapy and Oncology, 71 [3], 339-345


Li (2013), Migration from a full head mask to open-face mask for immobilization of patients with head and neck cancer, JACMP, 14 [5], 243-54

Ouzidane, M. (2013), Spine stereotactic body radiotherapy - Experience from Cleveland Clinic, Applied Radiation Oncology, 2 [2], 12-16
The Patient Immobilization Systems from Orfit are an active component in achieving a high quality radiation therapy.

Thermoplastics with superior moulding properties that result in a high but comfortable degree of patient immobilization.

Very stable mask preventing chin-drop and shoulder rotation.

Memory effect which allows the user to remould a finished mask as needed. This provides significant flexibility for modification during a patient treatment or simply to save on waste.

Thinner masks resulting in less absorption and increased skin sparing.

Positioning blocks and wedges that effectively support different neck shapes and allow flexion and extension of the head.

Quick release system allows for fast and safe removal of the mask from the patient.
HIGH PRECISION
ANTIBACTERIAL MASKS

SINGLE LAYER

Art. N° 33776/2MA
2-points chin mask

Art. N° 35763/2MA/NH*
3-points head mask with nose hole

Art. N° 35763/2MA/M*  
3-points head mask with nose and mouth hole

Art. N° 35763/2MA/EM*
3-points head mask with nose, eyes and mouth hole

Art. N° 35763/2MA/G35
3-points head mask with nose hole 35 mm up

Art. N° 35760/EFF2MA*
3-points head mask with nose hole with extra cranial flaps

Art. N° 35760/EFF2MA/M*
3-points head mask with nose and mouth hole with extra cranial flaps
HIGH PRECISION
ANTIBACTERIAL MASKS

SINGLE LAYER

Art. N° 35760/EFF2MA/EM*
3-points head mask
with nose, eyes and mouth hole
with extra cranial flaps

Art. N° 35779/2MA/E
3-points head mask
with nose hole
with neck flap

Art. N° 35779/2MA/M
3-points head mask
with nose and mouth hole
with neck flap

Art. N° 35779/2MA/EM*
3-points head mask
with nose, eyes and mouth hole
with neck flap

Art. N° 35764/2MA/EM*
4-points head, neck and shoulders mask
with nose, eyes and mouth hole

Art. N° 35764/2MA/NH
4-points head, neck and shoulders mask
with nose hole

Art. N° 35764/2MA/M*
4-points head, neck and shoulders mask
with nose and mouth hole

Art. N° 35764/2MA/EM*
4-points head, neck and shoulders mask
with nose, eyes and mouth hole
HIGH PRECISION ANTIBACTERIAL MASKS

SINGLE LAYER

Art. N° 33730/4
5-points head, neck and shoulders mask with nose hole

Art. N° 33700/2MA/M*
5-points head, neck and shoulders mask with nose and mouth hole

Art. N° 33700/2MA/EM*
5-points head, neck and shoulders mask with nose, eyes and mouth hole

Art. N° 33700/2MA/NH
5-points head, neck and shoulders mask

All masks are available in 2 mm thickness with maxi perforation [Art. N° with extension /2MA]
* Additional available thickness and perforation type:
1.6 mm micro perforation [Art. N° with extension/16MI]
HIGH PRECISION ANTIBACTERIAL MASKS

NANOR® SINGLE LAYER

Blending nanoparticles in our thermoplastic material substantially improves the mechanical properties of the immobilization mask.

A thin, yet strong mask

Fits around the patient like a surgical glove

Lower pressure on the patient’s face

Adapts to minor patient swelling

www.orfit.com/nanor for more information.
HEAD, NECK AND SHOULDERS | HIGH PRECISION

HIGH PRECISION ANTIBACTERIAL MASKS

HYBRID

Precision has always been, and will always be, the main driving force in radiation oncology for improving existing treatment techniques and for adopting changes resulting from new techniques.

The search for improvement of the overall precision of cancer treatment has led to the introduction of techniques like SRS, SRT, IGRT, Adaptive RT, real time robotic techniques, etc. It has also led to a better understanding of the importance of an accurate and sustainable patient positioning system.

Very often, standard immobilization devices will not deliver the precision and reproducibility needed for these treatments as they leave too much room for the patients to move. A stereotactic treatment for example requires millimetre precision immobilization.

Orfit has created an innovative and patented range of hybrid thermoplastic immobilization masks that clearly overcome the above-mentioned positioning and immobilization problems.

These reinforced thermoplastic masks offer the ease of use of a regular thermoplastic mask with an unparalleled horizontal stability and fixation force. In combination with the unique Orfit High Precision Head Supports, one is able to really achieve a good immobilization and positioning of the patient.

Even the largest and biggest-shouldered patients will be immobilized properly with these masks thanks to the reinforcement rim around the mask and the chin strap offering excellent control over the position of the patient’s head.

The reinforcement rim in the mask is made from Nanor thermoplastic material. This ultra-thin material [1.2 mm thick] improves the stability of the mask dramatically, while maintaining the comfort. The use of nanotechnology allows the production of a material that has a high bending modulus with a limited thickness. Additionally the material has a limited shrinkage.

The range of hybrid pre-cuts consists of a 3-points head pre-cut and a 4-points and 5-points head, neck and shoulders pre-cut.
HIGH PRECISION ANTIBACTERIAL MASKS

HYBRID

Nanor-reinforced thermoplastic masks are thinner and lighter with excellent stability and patient comfort.

Art. N° 33740/2MA/12Mi+N/NH
3-points hybrid head mask

Art. N° 33740/2MA/12Mi+N
3-points hybrid head mask with nose hole

Art. N° 33737/2Ma/12Mi+N/NH
4-points hybrid head, neck and shoulders mask

Art. N° 33730/2MA/12Mi+N/NH
5-points hybrid head, neck and shoulders mask

Art. N° 33730/2MA/12Mi+N/NH/G17
5-points hybrid head, neck and shoulders mask with trachea hole

Art. N° 33791/2MA/12Mi+N
5-points hybrid head, neck and shoulders mask enlarged shoulder area
OPEN FACE HYBRID

The innovative Open Face Hybrid mask leaves eyes, nose and mouth exposed, and is the ideal immobilization solution for brain, head and neck patients who suffer from claustrophobia and for treatments with a long duration, as on the Cyberknife. Like all thermoplastic materials made by Orfit, this high precision mask is easy to mould and it can be shaped very closely to the patient’s anatomy.

It provides excellent reproducibility of the patient’s position. It warrants increased patient comfort and provides the same high precision immobilization as the standard single layer Efficast head and neck masks.

The Open Face Hybrid mask is reinforced with Nanor, an innovative thermoplastic material, based on high end nanotechnology, that allows to make a mask that is thinner, lighter and yet stable.

The new open face mask is compatible with modern motion management systems, enabling radiation oncology clinicians to keep the target in the path of the radiation beam at all times.

The 3-points Open Face Hybrid Head mask has been evaluated and confirmed by Vision RT as compatible for use with Vision RT products*. www.visionrt.com


Art. N° 33759/16MI/12Mi+N
3-points open face hybrid head mask

Art. N° 33733/16MI/12Mi+N
5-points open face hybrid head, neck and shoulders mask
High Precision Base Plates

Orfit’s lightweight, professionally designed and precisely engineered hardware ensures outstanding patient immobilization results. The Orfit Base Plate design consists of a sandwich construction, with a foam core and ultra-thin carbon fibre layers.

This results in a very low density with the highest possible radiation transmission during treatment. The use of your existing 2-pin lock bar, Orfit Loxon clamps or a similar device ensures that the Orfit High Precision Base Plate is securely mounted to the table top.

Positioning indicators on the base plate help to reduce patient set-up time and ensure precise positioning and immobilization during each fraction.

An extensive range of Orfit High Precision Base Plates and Extensions are available and compatible for use with all treatment machines, CT and simulator table tops.

Low Density

Art. N° 32130/12
High precision small base plate in CFL
Head and neck

Art. N° 32130/MR
High precision small base plate
Head and neck
MR compatible

Art. N° 32110/12
High precision base plate in CFL
Head, neck and shoulders

Art. N° 32110/MR
High precision base plate
Head, neck and shoulders
MR compatible

Art. N° 32150
High precision long base plate in CFL for IMRT/IGRT
Treatments in overhang
Head, neck and shoulders
MR compatible

Also available for Elekta HexaPOD™ evo RT System (Art. N° 32150/HX)
Also available as an extension base plate with pin interface (Art. N° 32150/3)
LOW DENSITY

Art. N° 32064
High precision tiltable base plate in CFL
Head and neck

Art. N° INT-1
Integra Couch Extension
for Varian Exact™ Couch in CFL
High precision masks only
Head, neck and shoulders

HIGH DENSITY

Art. N° 35754/6N
High precision base plate in HPL
Head and neck
MR compatible

Art. N° 35751N
High precision base plate in HPL
Head, neck and shoulders
MR compatible

Art. N° 32809
High precision extension in polycarbonate
for TRILOGY
Head and neck

Art. N° 32117
High precision base plate in polycarbonate
for Cyberknife
Head, neck and shoulders
HIGH PRECISION
HEAD SUPPORTS

An extremely important part of the Orfit High Precision Frameless Mask System is the innovative 3D Head Support with cranial stop.

The shape helps to comfortably cradle the patient’s head while the cranial stop allows a correct and reproducible position within the head support. You can now be sure that the patient is in the exact same position within the head support each and every time. The base of the head support indexes precisely into the Orfit High Precision Base Plates.

Several sets with differently shaped and sized supine and prone head supports are available to meet virtually every patient and treatment need.
HEAD, NECK AND SHOULDERS | HIGH PRECISION

HIGH PRECISION
HEAD SUPPORTS

LOW DENSITY
Art. N° 32704 (set)
Set of low density head supports (all sizes)

REGULAR DENSITY
Art. N° 32702-MD (set)
Set of regular density head supports (all sizes)
HIGH PRECISION
HEAD SUPPORTS

REGULAR DENSITY - EXTRA SOFT
Art. N° 32433 (set)
Set of regular density head supports - Extra soft (all sizes)

REGULAR DENSITY
Art. N° 32399-MD
Regular density head support
With lateral neck flaps for patients with a curved spine

PRONE
Art. N° 32393
Prone head support adjustable in size
Movable forehead cushion
Art. N° 32380
Prone head support adjustable in size
Movable chin cushion
Thermofit is an innovative thermoplastic solution for the creation of a personalised head support. Thermofit becomes soft and mouldable after heating. It is placed in an Orfit Head Support before positioning the head of the patient. While Thermofit cools down and becomes rigid, it takes on the exact curvature of the head and neck of the patient.

In a second step a thermoplastic mask is moulded over the patient. In combination with Thermofit it creates an immobilization device that is suitable for high precision treatment.

Thermofit comes in three different sizes.
Thermofit has a number of characteristics that make it easy to apply in a radiotherapy department:

Can be used on standard Orfit immobilization devices. No need for additional equipment.

Extremely comfortable for a patient thanks to the support it gives in the neck area.

Works fast. Heating a Thermofit only takes a few minutes and the hardening time is similar to the hardening time of a thermoplastic mask.

Extremely easy to use.

Excellent dosimmetrical properties with a low attenuation percentage.

Thermofit is odourless and has unlimited shelf life.
Orfit Blocks and Wedges are used in conjunction with our Head Supports to increase high precision positioning. This combination provides you with unmatched flexibility and versatility in being able to quickly and easily achieve the specific patient position you require for treatment.

**FEATURES AND BENEFITS**

You are able to comfortably position the patient in extreme flexion and extension.

Orfit High Precision 3D Head Supports with cranial stop and Blocks and Wedges are compatible for use with all High Precision Hardware.

All components index to each other for increased stability, reproducibility and precision of the immobilization.
## HIGH PRECISION BLOCKS AND WEDGES

### LOW DENSITY

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<td>35703</td>
<td>block 20 mm</td>
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<tr>
<td>35706</td>
<td>block 40 mm</td>
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<tr>
<td>35704</td>
<td>wedge 9°</td>
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<tr>
<td>35707</td>
<td>wedge 18°</td>
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Set of low density blocks and wedges - CFL

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</table>
HEAD, NECK AND SHOULDERS | HIGH PRECISION

HIGH PRECISION
BLOCKS AND WEDGES

LOW DENSITY

Art. N° 35703/MR
20 mm

Art. N° 35704/MR
9°

Art. N° 32700/MR (set)
Set of low density blocks and wedges - MR compatible

Art. N° 35706/MR
40 mm

Art. N° 35707/MR
18°

Art. N° 32424/MR
13.5°

Art. N° 32709/MR (set)
Set of low density blocks and wedges - MR compatible

Art. N° 32712/MR (set)
Set of low density blocks and wedges - MR compatible

Art. N° Description
35703/MR block 20 mm
35706/MR block 40 mm
35704/MR wedge 9°
35707/MR wedge 18°
35703/MR block 20 mm
35704/MR block 40 mm
35704/MR wedge 9°
32424/MR wedge 13.5°
35703/MR block 20 mm
35706/MR block 40 mm
35704/MR wedge 9°
35707/MR wedge 18°
32424/MR wedge 13.5°
HIGH PRECISION BLOCKS AND WEDGES

HIGH DENSITY

Art. N° 35754/1
20 mm

Art. N° 35754/2
40 mm

Art. N° 35754/3
9°

Art. N° 35754/4
18°

Art. N° 35754/5
13.5°

Art. N° 35754/8 (set)
Set of high density blocks and wedges - rigid PE

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>35754/1</td>
<td>block 20 mm</td>
</tr>
<tr>
<td>35754/2</td>
<td>block 40 mm</td>
</tr>
<tr>
<td>35754/3</td>
<td>wedge 9°</td>
</tr>
<tr>
<td>35754/4</td>
<td>wedge 18°</td>
</tr>
</tbody>
</table>

Art. N° 35754/9 (set)
Set of high density blocks and wedges - rigid PE

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>35754/1</td>
<td>block 20 mm</td>
</tr>
<tr>
<td>35754/2</td>
<td>block 40 mm</td>
</tr>
<tr>
<td>35754/3</td>
<td>wedge 9°</td>
</tr>
<tr>
<td>35754/5</td>
<td>wedge 13.5°</td>
</tr>
</tbody>
</table>
The Orfit Arm Strap allows the patient to hold their arms in a comfortable position by the side of their body. It requires no effort from their side. It is the ideal solution for patients with paralysis, patients that cannot lie still, large patients that cannot position their arms on the table, etc. Increased comfort for the patient results in decreased motion, better image quality and a more accurate treatment result. The Arm Strap is one-size-fits all thanks to the velcro that allows you to adjust the strap to the patient’s anatomy.

Another option for the arms is the Shoulder Positioning System, which allows pulling down the shoulders of the patient. This is helpful when moulding a 5-points head, neck and shoulders mask.
The Base Plate Extension can be placed at the caudal edge of a head, neck and shoulders base plate to improve the comfort at the level of the shoulders. It bridges the gap between the table and the base plate.
HIGH PRECISION ACCESSORIES

KNEE AND FEET SUPPORT

Art. N° 32317/4  
Knee support - indexed on 2-pin bar

Art. N° 32317/5  
Feet support - indexed on 2-pin bar

Art. N° 32317/4/1  
Knee support - non-indexed

Art. N° 32317/5/1  
Feet support - non-indexed
At Orfit we are dedicated to provide the best possible solutions for patient positioning and immobilization in radiation oncology.

The most important component of patient immobilization is the thermoplastic mask. The superior properties of Orfit thermoplastic pre-cuts assure an easy, comfortable and precise mask-making process.

Our thermoplastic masks with push-pin type profiles fit seamlessly on existing hardware that you may have in your department.
Masks with Art. N° with extension /2MA are available in 2 mm thickness with maxi perforation.

Additional available thicknesses and perforation types:
- 1.6 mm micro perforation (Art. N° with extension /16MI)
- 2.0 mm micro perforation (Art. N° with extension /2MI)
PUSH-PIN ANTIBACTERIAL MASKS

NANOR® SINGLE LAYER

Art. N° 33768/16Mi+N
3-points head mask with nose hole
with neck flap

Art. N° 33770/2Mi+N
5-points head, neck and shoulders mask
with nose hole

Art. N° 33739/2MA/12Mi+N
5-points hybrid head, neck and shoulders mask
with nose hole

PUSH-PIN ANTIBACTERIAL MASKS

HYBRID

Art. N° 33747/2MA/12Mi+N
3-points hybrid head mask

Art. N° 33747/2MA/12Mi+N/NH
3-points hybrid head mask with nose hole

Art. N° 33739/2MA/12Mi+N/NH
5-points hybrid head, neck and shoulders mask

Art. N° 33755/2MA/12Mi+N
5-points hybrid head, neck and shoulders mask
large size

Art. N° 33755/2MA/12Mi+N/NH
5-points hybrid head, neck and shoulders mask
with nose hole
large size
PUSH-PIN ANTIBACTERIAL MASKS

OPEN FACE HYBRID

Art. N° 33781/16MI/12MI+N
5-points open face hybrid head, neck and shoulders mask

Art. N° 33780/16MI/12MI+N
3-points open face hybrid head mask

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>35772/2MA/NP*</td>
<td>2-points head mask with nose hole</td>
</tr>
<tr>
<td>35773/2MA/NP**</td>
<td>3-points head mask with nose hole</td>
</tr>
<tr>
<td>35768/2MA/NP**</td>
<td>3-points head mask with neck and extra cranial flaps</td>
</tr>
<tr>
<td>33770/2MA/NP**</td>
<td>3-points head mask with neck flap</td>
</tr>
<tr>
<td>33761/16MI/NP</td>
<td>3-points head mask with narrow neck flap</td>
</tr>
<tr>
<td>35774/2MA/NP*</td>
<td>4-points head, neck and shoulders mask with nose hole</td>
</tr>
<tr>
<td>35777/2MA/NP**</td>
<td>5-points head, neck and shoulders mask with nose hole</td>
</tr>
<tr>
<td>35791/2MA/NP**</td>
<td>5-points head, neck and shoulders mask with nose hole</td>
</tr>
</tbody>
</table>

Masks with Art. N° with extension /2MA are available in 2 mm thickness with maxi perforation.

Additional available thicknesses and perforation types:
* 1.6 mm micro perforation (Art. N° with extension /16MI)
** 2.0 mm micro perforation (Art. N° with extension /2MI)
Precision in lung treatment is highly increased by immobilizing the chin and thorax of the patient.

Orfit has designed a hybrid 4-points mask that assures a correct repositioning of the chin, the arms and the chest.

The reinforced part of the mask over the armpit and over the lower ribs prevents rotation of the thorax.
PUSH-PIN BASE PLATE

BASE PLATE

Art. N° 32148
Base plate in CFL for push-pin masks
Head, neck and shoulders
An extremely important part of the Orfit High Precision Frameless Mask System is the innovative 3D Head Support with cranial stop.

The shape helps to comfortably cradle the patient’s head while the cranial stop allows a correct and reproducible position within the head support. You can now be sure that the patient is in the exact same position within the head support each and every time. The base of the head support indexes precisely into the Push-Pin Base Plates.

Several sets with differently shaped and sized supine and prone head supports are available to meet virtually every patient and treatment need.
PUSH-PIN
HEAD SUPPORTS

LOW DENSITY
Art. N° 32409 (set)
Set of 6 low density head supports (all sizes)

REGULAR DENSITY
Art. N° 32708-MD (set)
Set of 6 regular density head supports (all sizes)
PUSH-PIN
HEAD SUPPORTS

REGULAR DENSITY - EXTRA SOFT
Art. N° 32450 (set)
Set of 6 regular density head supports - Extra soft (all sizes)

REGULAR DENSITY
Art. N° 32426-MD
Regular density head support
With lateral neck flaps for patients with a curved spine

PRONE
Art. N° 32379
Prone head support rectangular interface
Movable forehead cushion
PUSH-PIN ACCESSORIES

ADAPTERS FOR HP HEAD SUPPORTS AND BLOCKS AND WEDGES

Art. N° 32149
Low density adapter

Art. N° 32048
Regular density adapter

PROFILES IN CARBON FIBRE

Art. N° 35675
Large

Art. N° 35674
Small

Art. N° 35664/20
Push-pin
(set of 20 pieces)
PAEDIATRIC IMMobilization SYSTEMs

Orfit offers a full range of products dedicated to paediatric patients. It contains base plates, head supports and thermoplastic masks. The products are suitable for patients from 0 to 12 years old.

All the products adhere to the same standards as the immobilization devices for adults.
HIGH PRECISION PAEDIATRIC ANTIBACTERIAL MASKS

SINGLE LAYER

Art. N° 33710/2MA
3-points head mask
with nose hole
small size

Art. N° 33710/2MA/NH
3-points head mask
small size

Art. N° 33688/2MA
3-points head mask
with nose hole
medium size

Art. N° 33705/2MA
5-points head, neck and shoulders mask
with nose hole
small size

Art. N° 33702/2MA
5-points head, neck and shoulders mask
with narrow shoulder profiles
small size
HEAD, NECK AND SHOULDERS | PAEDIATRIC

HIGH PRECISION PAEDIATRIC ANTIBACTERIAL MASKS

HYBRID

Art. N° 33748/2MA/12Mi+N/NH
3-points hybrid head mask
small size

Art. N° 33749/2MA/12Mi+N/NH
3-points hybrid head mask
medium size

Art. N° 33750/2MA/12Mi+N/NH
5-points hybrid
head, neck and shoulders mask
small size

OPEN FACE HYBRID

Art. N° 33782/16Mi/12Mi+N
3-points open face hybrid head mask
small size

Art. N° 33783/16Mi/12Mi+N
3-points open face hybrid head mask
medium size

Art. N° 33785/16Mi/12Mi+N
5-points open face hybrid
head, neck and shoulders mask
small size

Art. N° 33787/16Mi/12Mi+N
5-points open face hybrid
head, neck and shoulders mask
medium size
PUSH-PIN PAEDIATRIC ANTIBACTERIAL MASKS

SINGLE LAYER

Art. N° 33690/2MA
3-points head mask
with nose hole
small size

Art. N° 33691/2MA
5-points head, neck and shoulders mask
with nose hole
small size

OPEN FACE HYBRID

Art. N° 33784/16MI/12MI+N
3-points open face hybrid head mask
small size

Art. N° 33786/16MI/12MI+N
5-points open face hybrid head, neck and shoulders mask
small size

HYBRID

Art. N° 33766/2MA/12MI+N/NH
3-points hybrid head mask
small size

Art. N° 33777/2MA/12MI+N/NH
5-points hybrid head, neck and shoulders mask
small size

MASKS WITHOUT PROFILES

Art. N° 33690/2MA/NP
3-points head mask
small size

Art. N° 33691/2MA/NP
5-points head, neck and shoulders mask
small size
HIGH PRECISION 
PAEDIATRIC 
BASE PLATES

Orfit’s lightweight and precisely engineered Paediatric Hardware ensures outstanding immobilization results. The Orfit Paediatric Base Plate design consists of a sandwich construction, with a foam core and ultra thin carbon fibre layer. This results in a very low density with the highest possible radiation transmission during treatment.

The use of your existing 2-pin lock bar, Orfit Loxon clamps or a similar device ensures that the Orfit Paediatric High Precision Base Plate is securely mounted to the table top. Positioning indicators on the base plate help to reduce patient set-up time and ensure precise positioning and immobilization during each fraction.

LOW DENSITY

Art. N° 32111
High precision paediatric base plate in CFL
Head, neck and shoulders

Art. N° 32150-PED
High precision paediatric long base plate in CFL for IMRT/IGRT
Head, neck and shoulders
An extremely important part of the Orfit High Precision Frameless Mask System is the innovative 3D Head Support with cranial stop.

The shape helps to comfortably cradle the patient’s head while the cranial stop allows a correct and reproducible position within the head support. You can now be sure that the patient is in the exact same position within the head support each and every time. The base of the head support indexes precisely into the Orfit High Precision Base Plates.

Several sets with differently shaped and sized supine and prone head supports are available to meet virtually every patient and treatment need.
HIGH PRECISION PAEDIATRIC HEAD SUPPORTS

LOW DENSITY

Art. N° 35753
Paediatric head support with lateral neck flaps
Age 6 to 12

Art. N° 35753ZF
Paediatric head support without lateral neck flaps
Age 6 to 12

Art. N° 35753-80
Paediatric head support with lateral neck flaps
Extra-small size
Age 0 to 5

REGULAR DENSITY

Art. N° 35713-MD
Paediatric head support with lateral neck flaps
Age 6 to 12

Art. N° 35713ZF-MD
Paediatric head support without lateral neck flaps
Age 6 to 12

PRONE

Art. N° 32393
Prone head support adjustable in size
Movable forehead cushion

Art. N° 32380
Prone head support adjustable in size
Movable chin cushion
U/S-shaped frame
UON and DUON head and neck masks and DUON head, neck and shoulders masks combine the unique features of U-Plast thermoplastic material with a strong U- and S-Shaped frame with an improved bending stiffness. This results in a more sturdy mask.

T-shaped pins
T-shaped pins in DUON masks are easy to attach to and release from a base plate. The T-shaped pins are available as a separate item and can easily be replaced when necessary.

Antibacterial, non-stick coating
Each mask is treated with a water-based non-stick coating with antibacterial properties. The coating prevents sticking of the mask to skin, hair and hardware and its antibacterial properties prevent cross-contamination in a hospital environment.

Thermoplastic properties
UON and DUON masks offer a high and reliable quality with controlled low shrinkage. This results in high accuracy, ease of use and increased patient throughput.
UON® ANTIBACTERIAL MASKS

HEAD AND NECK

Art. N° 60110
2.4 mm
hybrid perforation

Art. N° 60112
2.4 mm
micro plus perforation

Art. N° 60117
2.4 mm
micro plus perforation with neck flap

Art. N° 60114
2.4 mm
maxi perforation

Art. N° 60095
3.2 mm
maxi perforation

Art. N° 60097
3.2 mm
maxi perforation with neck flap

Art. N° 60098
U-plast 2.4 mm maxi perforation + Nanor 1.2 mm micro plus perforation open face hybrid mask

DUON® ANTIBACTERIAL MASKS

HEAD AND NECK

Art. N° 60120
2.4 mm
hybrid perforation

Art. N° 60119
2.4 mm
micro plus perforation

Art. N° 60122
2.4 mm
micro plus perforation
with neck flap

Art. N° 60124
2.4 mm
maxi perforation

Art. N° 60121
3.2 mm
maxi perforation

Art. N° 60123
3.2 mm
maxi perforation
with neck flap
DUON® ANTIBACTERIAL MASKS

HEAD, NECK AND SHOULDERS

Art. N° 60001
2.4 mm
micro plus perforation

Art. N° 60002
3.2 mm
maxi perforation
DUON® ANTIBACTERIAL MASKS

OPEN FACE HYBRID

Art. N° 60125
U-plast 2.4 mm maxi perforation +
Nanor 1.2 mm micro plus perforation

UON® AND DUON® BASE PLATES

**DUON-HP BASE PLATE**

- **Art. N° INT-3**
  Integra head, neck and shoulders board in CFL
  HP and DUON masks

- **Art. N° 32095**
  Base plate for head and neck in CFL
  DUON masks

**DUON-HP EXTENSION**

- **Art. N° INT-1D**
  Integra Table Top Extension for a Varian Exact™ couch in CFL
  HP and DUON masks

**UON BASE PLATE**

- **Art. N° 32097**
  Base plate for head and neck - Acrylic
  UON masks
Head supports with cranial stop

An extremely important part of the UON and DUON Mask System is the innovative 3D shaped Head Support with cranial stop.

The shape helps to comfortably cradle the patient’s head while the cranial stop allows correct and reproducible positioning within the head support. You can now be sure that the patient is in the exact same position within the head support each and every time.

The base of the head support indexes precisely into the UON and DUON Base Plate.

UON and DUON head supports for use with your base plate

Now you can quickly and easily use High Precision Head Supports with your existing U-Shaped or S-Shaped base plate.

Orfit Head Support Adapter Plates 32046 for U-Shaped base plates and 32047 and 32047-CFL for S-Shaped base plates enable you to quickly convert your base plate so it is compatible for use with all Orfit Head Supports.
Orfit’s HP PRO Solution achieves a new level in patient immobilization.

This immobilization device is designed for brain, head and neck treatments for both photon and proton therapy. It is the first immobilization device in the market that makes use of ultra-thin Nanor masks.

The Orfit HP PRO Solution has been designed to meet the specific standards proton therapy demands. It includes a homogeneous low density immobilization device with a narrow carbon fibre base plate in the head and neck area, allowing for closer range positions of the treatment device. The base plate is a lightweight structure with good dosimetric properties.

Designed to meet the specific standards proton therapy demands.
**HP PRO® ANTIBACTERIAL MASKS**

Orfit provides thermoplastic head masks and head, neck and shoulder masks that are moulded over the patient and securely and easily fastened to the base plate.

The thermoplastic masks contribute to maximal immobilization. Comfort and stability are guaranteed by the use of Orfit’s Nanor thermoplastic material. Nanor is a thin thermoplastic material that makes use of nanotechnology to improve the mechanical properties of the thermoplastic material.

The masks are unique thanks to their patented locking mechanism.

The mask profile slides over a locking pin and then swivels towards the base plate until it clicks securely into the base plate. It is easily unlocked so that the mask can be removed quickly.
HP PRO® SOLUTION

HP PRO®
ANTIBACTERIAL MASKS

Art. N° 25100/16MI+N/NH
3-points paediatric head mask
Nanor 1.6 mm micro+
with nose hole

Art. N° 25101/16MI+N/16MI+N/NH
3-points head mask
Nanor 1.6 mm micro+
with nose hole

Art. N° 45204/32MA/EFF
HP PRO pelvic mask
Efficast 3.2 mm maxi
with push-pins

Art. N° 25105/2MI+N/NH
5-points head, neck and shoulders mask
Nanor 2 mm micro+
with nose hole

Art. N° 25105/2MI+N
5-points head, neck and shoulders mask
Nanor 2 mm micro+
with nose hole

Art. N° 25101/16MI+N
3-points paediatric head mask
Nanor 1.6 mm micro+
with nose hole
## ADULT BASE PLATES

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Product description</th>
<th>Interface</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>25000/1</td>
<td>Extension and overlay pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25000/22</td>
<td>Extension and overlay pin</td>
<td></td>
<td>Mevion</td>
</tr>
<tr>
<td>25000/25</td>
<td>Extension extra long pin</td>
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<td>25000/20</td>
<td>Extension Type 1 clamp</td>
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<td></td>
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<tr>
<td>25000/18</td>
<td>Overlay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25000/26</td>
<td>Overlay</td>
<td></td>
<td>Elekta HexaPOD™ evo RT System</td>
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<tr>
<td>25000/1/MR</td>
<td>Overlay</td>
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<td>MR compatible</td>
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</table>

## PAEDIATRIC BASE PLATES

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Product description</th>
<th>Interface</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>25000/16</td>
<td>Extension for paediatric 8-16 years pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25000/33</td>
<td>Overlay for paediatric 8-16 years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**HP PRO® SOLUTION**

**HP PRO® HEAD SUPPORTS**

**MOLD CARE**

**Art. N° 18090**
Moldcare cushion
150 x 200 mm

**FLEXIBLE SHIM**

**Art. N° 25070/10**
Flexible shim - 1 mm
(Package of 10 pieces)

**HEAD REST INDEXING PLATE**

**Art. N° 25000/7/20**
Head rest indexing plate
(Package of 20 pieces)

**Art. N° 25000/39/20**
Head rest indexing plate paediatric
(Package of 20 pieces)

* Moldcare is a trademark from ALCARE
HP PRO® ACCESSOIRES

To ensure that the head of the patient is correctly positioned, and prior to the moulding of the mask, a cranial back-stop is attached to the cup-like head rest part of the base plate.

A set of hand holds are available to comfortably position the hands, arms and shoulders of the patient.

Art. N° 25000/6
Cranial back-stop

Art. N° 25000/17/A
Art. N° 25000/17/B
Hand holds
MRI COMPATIBLE PRODUCTS

Orfit’s range of MRI compatible immobilization devices allows a reproducible set-up for each patient, both during simulation and treatment. The devices can be used in the MRI scanner and on the MRI Linac.

The product range contains high density head and neck base plates for the most common MRI scanners in the market: Siemens, Philips and GE. They allow the set-up of the coils in the most optimal position to obtain a good image quality. For the MRI Linac, there are low density versions of the head and neck base plates available.

The Orfit SBRT Solution is also entirely MRI compatible. It consists out of a fibre glass base plate, which is low density, and non-metallic accessories.

All Orfit thermoplastic masks are MR safe.
MRI COMPATIBLE PRODUCTS

Head and neck base plates
Read more on p. 17-18

Head supports
Read more on p. 19-21

Blocks and wedges
Read more on p. 26-27

Pelvicast base plate
Read more on p. 91

High precision lung board
Read more on p. 94-95

The SBRT Solution
Read more on p. 117

HP PRO base plate
Read more on p. 59

MammoRx breast board
Read more on p. 98
ORFIT MRI-P AND ORFIT MRI-G SOLUTION FOR BRAIN, HEAD AND NECK

The Orfit MRI-P Solution is designed for Philips MRI Scanners and the Orfit MRI-G Solution for GE MRI Scanners.

Both solutions can be combined with the flexible coils of the respective MRI scanners. The base plates allow the use of a thermoplastic mask, head supports and blocks and wedges in order to scan the patient in the exact treatment position.

The solution includes a High Precision (HP) Base Plate, a set of six HP Low Density Head Supports and a set of Couch Top Fixations.

Art. N° 29111-P: MRI-P Solution
Art. N° 29111-G: MRI-G Solution
The Orfit MRI-S Solution for brain, head and neck provides patient immobilization on the Siemens MAGNETOM family of MRI scanners. It allows for fusion of images with the patient in exactly the same position as during simulation and treatment.

The solution includes a High Precision (HP) Base Plate, a Bi-lateral Antenna Holder, a set of six HP Head Supports, and a set of Couch Top Fixations. Patients are immobilized with an Efficast thermoplastic 3-points or 5-points mask.

All components and thermoplastic masks are MRI-compatible and meet the standards of Siemens AG Healthcare with respect to functioning on the following Magnetic Resonance Systems.

### ORFIT MRI-S SOLUTION FOR BRAIN, HEAD AND NECK

<table>
<thead>
<tr>
<th>1.5 Tesla</th>
<th>3 Tesla</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim System ➔ Avanto                      ➔ Verio</td>
<td></td>
</tr>
<tr>
<td>➔ Espree                      ➔ Trio</td>
<td></td>
</tr>
<tr>
<td>➔ Symphony                   ➔ a Tim System</td>
<td></td>
</tr>
<tr>
<td>Tim 4G System ➔ a Tim System            ➔ Skyra</td>
<td></td>
</tr>
<tr>
<td>➔ a Tim System                ➔ Spectra</td>
<td></td>
</tr>
</tbody>
</table>

**HP base plate**

The HP base plate comes with different sets of dedicated indexing fixations so that it can be mounted on top of the different couch tops of the Siemens MAGNETOM family of MRI scanners.

Slots are provided in the base plate to attach Orfit high precision thermoplastic head and neck masks. All Orfit HP Head Supports, Blocks and Wedges can also be positioned on the base plate. This allows the patient to be immobilized in exactly the same position as for simulation and treatment.

**Bi-lateral antenna holder**

The antenna holder slides over the cranial end of the base plate. It can be opened for easy mounting of the antennas and for patient set-up with a mask. In a closed position the antennas are very close to the head of the patient for optimal image quality. The levers of the holder accept the large flex coils of the Siemens MRI system.
The AIO Solution facilitates and refines treatments by limiting potential changes in the patient position to a minimum.

With one base plate and different sets of cushions and thermoplastic masks, all parts of the body are positioned and immobilized in a comfortable, exact and reproducible way.

These refined immobilization techniques allow IMRT and IGRT procedures in almost any anatomical location, including breast and lung.

- Exact reproducibility of the patient’s position in imaging and therapy.
- Highest degree of patient comfort for IMRT and IGRT procedures.
- Precise immobilization of all body regions.
- Increased certainty of location of external and internal anatomical structures.
- Reduced inter- and intra-fraction variations.
- Reduced daily positioning uncertainties.
- Reduced patient set-up time.
- Increased ease of use.
AIO CUSHION SETS

The AIO Solution contains a cushion set for each anatomical region.

- Brain, head and neck
- Thorax and abdomen in supine position
- Prone breast position
- Belly and pelvis in supine and in prone position

All cushions are easily positioned on the base plate in an indexed way. The cushions have a colour code for easy recognition and fast set-up of the system:

- Head supports and knee & leg cushions are in grey
- Thorax/abdomen cushions for supine are in blue
- Breast in prone position cushions are in yellow
- Belly/pelvis cushions are in green

The cushions are made of a low density foam with excellent dosimetric properties. They are coated to assure patient comfort and hygiene.

The extra-cranial cushions can be adapted in width to accommodate all patient sizes. The prone breast cushions can be adapted in height.

Each patient position is reproduced and immobilized by means of an Efficast thermoplastic mask that limits movement of the anatomical area of concern.

The AIO Solution is truly an All-In-One system with a head and neck immobilization system, lung board, breast board, abdominal system and belly- and pelvic board in one single product.
AIO CUSHION SETS

BREAST AND LUNG BOARD

The blue cushion set is designed to achieve a comfortable and reproducible supine position of the patient. This position is primarily used for the treatment of malignancies in the thorax and the abdomen. The set consists of wedges, with different angles to increase patient comfort, and arm rests to allow for a comfortable, but reproducible positioning of the arms above the head and out of the treatment fields. Hand grips and head supports will further help in increasing the precision and in finding the correct patient position.

FEATURES AND BENEFITS

5°, 10° and 15° angled wedges lift the upper body of the patients and thereby facilitate breathing.

The coating of the cushions prevents the patient from sliding down.

The armrests (20° and 30° angle) have a flat top to support the total upper arm. This increases the patient’s comfort.

Lateral inserts in the cushions allow the positioning of large patients.

Specially developed Efficast masks are used in combination with this set to increase the precision of the treatment. They effectively immobilize the patient in the treated areas by reducing translational and rotational movements.

The indexed head supports position the head in a reproducible way and function as an outstanding reference point for the exact position of the rest of the body.
### AIO BREAST AND LUNG BOARD cushions

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29008/V2</td>
<td>Wedge 5°</td>
</tr>
<tr>
<td>29012/V2</td>
<td>Lateral support - 5° (left)</td>
</tr>
<tr>
<td>29013/V2</td>
<td>Lateral support - 5° (right)</td>
</tr>
<tr>
<td>29009/V2</td>
<td>Wedge 10°</td>
</tr>
<tr>
<td>29014/V2</td>
<td>Lateral support - 10° (left)</td>
</tr>
<tr>
<td>29015/V2</td>
<td>Lateral support - 10° (right)</td>
</tr>
<tr>
<td>29010/V2</td>
<td>Wedge 15°</td>
</tr>
<tr>
<td>29016/V2</td>
<td>Lateral support - 15° (left)</td>
</tr>
<tr>
<td>29017/V2</td>
<td>Lateral support - 15° (right)</td>
</tr>
<tr>
<td>29019/V2</td>
<td>Arm rest - low</td>
</tr>
<tr>
<td>29018/V2</td>
<td>Arm rest - high</td>
</tr>
<tr>
<td>29007/V2</td>
<td>Wedge 0°</td>
</tr>
<tr>
<td>29011/V2</td>
<td>Lateral support - 0°</td>
</tr>
<tr>
<td>29112/V2</td>
<td>Arm support cushion - compatible with low arm rest</td>
</tr>
</tbody>
</table>

### AIO BREAST AND LUNG BOARD accessories

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32140/12</td>
<td>Secondary base plate in CFL</td>
</tr>
<tr>
<td>32015/9</td>
<td>Grip pole system</td>
</tr>
<tr>
<td>32706-MD</td>
<td>Set of head supports (3) regular density - without lateral neck flaps</td>
</tr>
</tbody>
</table>
The yellow cushion set is designed to obtain a comfortable and reproducible patient position for the “prone breast” treatment technique. This technique keeps the ipsi-lateral breast away from the chest wall and the underlying tissues and reduces the lung, heart and contra-lateral breast tissue volume that is trapped in the treatment fields.

FEATURES AND BENEFITS

The support wedge on the tunnel plate helps in limiting the volume of the sternum and contra-lateral breast tissue that will be caught in the radiation fields.

The use of the elevation cushion increases the total height of the set to 23 cm which allows the treatment of very large pendulous breasts.

The slope in the head cushion allows the arms to drop and thereby reduce the tension in the shoulders during longer imaging and treatment sessions to increase the patient’s comfort.

Lateral inserts in the cushions are used for large patients.

Specially developed Efficast masks increase the precision of the treatment. They effectively immobilize the patient in the treated areas by reducing translational and rotational movements.

The head can be positioned by means of two types of head supports:
- A soft head support in the form of a ring that allows for a comfortable positioning of the head in prone position or sideways.
- A support that fixes the head rigidly in prone position. This support can be adjusted to fit the anatomy of the patient’s face.
### AIO PRONE BREAST BOARD SOLUTION cushions

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29006</td>
<td>Comfort wedge for contralateral side</td>
</tr>
<tr>
<td>32054/V2</td>
<td>Support cushion for contralateral breast</td>
</tr>
<tr>
<td>29003</td>
<td>Cranial cushion - standard 15 cm clearance</td>
</tr>
<tr>
<td>29000</td>
<td>Caudal cushion - standard 15 cm clearance</td>
</tr>
<tr>
<td>29001</td>
<td>Lateral support (left)</td>
</tr>
<tr>
<td>29002</td>
<td>Lateral support (right)</td>
</tr>
<tr>
<td>29005</td>
<td>Cranial cushion - elevation to 23 cm clearance</td>
</tr>
<tr>
<td>29004</td>
<td>Caudal cushion - elevation to 23 cm clearance</td>
</tr>
</tbody>
</table>

### AIO PRONE BREAST BOARD SOLUTION accessories

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29050</td>
<td>Prone head support</td>
</tr>
<tr>
<td>29051</td>
<td>Comfort prone head support</td>
</tr>
<tr>
<td>35754/1</td>
<td>PE block 20 mm</td>
</tr>
<tr>
<td>35754/2</td>
<td>PE block 40 mm</td>
</tr>
</tbody>
</table>
AIO CUSHION SETS

BELLY AND PELVIC BOARD

The purpose of the belly board is to keep the intestines of the patient out of the radiation fields for treating malignancies in the pelvis area. The opening in the cushion is meant to accommodate the belly of the patient and thereby effectively separate the small bowels from the area to be treated.

FEATURES AND BENEFITS

The opening in the belly board can be fitted with three sizes of belly inserts for different sized patients. These inserts are made of a soft foam to increase comfort in the rib cage area.

Lateral inserts in the cushions allow the positioning of large patients.

The head part of the cushion is designed to drop the shoulders of the patient and reduce stress. The hands of the patient can be placed under the base plate with the use of 2 hand grips.

The head can be positioned by means of two types of head supports:
- A soft head support in the form of a ring that allows for a comfortable positioning of the head in prone position or sideways.
- A support that fixes the head rigidly in prone position. This support can be adjusted to fit the anatomy of the patient’s face.

Pelvicast thermoplastic masks are used to reduce the translational and rotational movements of the patients. A specially designed Leg Separator can be inserted after the patient has mounted the cushion, to fix a 6-points Pelvicast mask.

This type of mask will further increase the reproducibility and precision of the treatment.

CLINICAL STUDIES

Lec, J.A. (2014), Interfractional variability in intensity-modulated radiotherapy of prostate cancer with or without thermoplastic pelvic immobilization, Strahlenther. Onkol, 190, 94-99

Tekkendra Singh, T. (2015), Treatment setup errors in pelvic patient comparing Orfit-AIO Solution and Vaclocks immobilization devices, Radiotherapy and Oncology, 115 (S1), S584
AIO BELLY AND PELVIC BOARD cushions

Art. N°
29025  Insert - small
29024  Insert - large
29023  Insert - full
29020  Belly & pelvic cushion
29021  Belly & pelvic lateral support [left]
29022  Belly & pelvic lateral support [right]

AIO BELLY AND PELVIC BOARD accessories

Art. N°
32015/8  Hand grips
32037   Leg separator
29051   Comfort prone head support
35754/1  PE block 20 mm
35754/2  PE block 40 mm
32706-MD Set of head supports (3) regular density without lateral neck flaps
AIO CUSHION SETS

KNEE AND LEG POSITIONING SET

An exact and comfortable position of the patient’s legs is obtained by using the indexable knee and leg positioning set.

FEATURES AND BENEFITS

An elevated position of the legs reduces stress in the patient’s back during the daily treatment fractions.

Can be used as a knee support in supine and as an ankle support in prone treatment position.

These cushions are also used as a reference point for setting up the other AIO Solution cushion sets.

The position of the cushion is easily reproduced by means of the centimetre scale and letter combinations.
## AIO KNEE AND LEG POSITIONING SET cushions

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29026</td>
<td>Basic low</td>
</tr>
<tr>
<td>29027</td>
<td>Wedge</td>
</tr>
<tr>
<td>29028</td>
<td>Elevation</td>
</tr>
<tr>
<td>29029</td>
<td>Base plate extension</td>
</tr>
</tbody>
</table>

![Diagram showing AIO knee and leg positioning set cushions](image-url)
THE AIO SOLUTION®

AIO ANTIBACTERIAL MASKS

LUNG, BREAST, THORAX AND ABDOMEN

Art. N° 33715/2MA
4-points thorax supine mask
small size

Art. N° 33716/2MA
4-points thorax supine mask
medium size

Art. N° 33717/2MA
4-points thorax supine mask
large size

Art. N° 33775/2MI/12MI+N
4-points hybrid lung mask

Art. N° 33723/32MA/L
5-points assymetric breast supine mask
left side

Art. N° 33723/32MA/R
5-points assymetric breast supine mask
right side

Art. N° 33715/2MA
4-points thorax supine mask
small size

Art. N° 33717/2MA
4-points thorax supine mask
large size

Art. N° 33724/32MA
6-points thorax and abdomen supine mask
AIO ANTIBACTERIAL MASKS

PELVIS

Art. N° 35788/32MA
4-points pelvic mask - small
prone and supine

Art. N° 35787/32MA
4-points pelvic mask - medium
prone and supine

Art. N° 35784/32MA
4-points pelvic mask - large
prone and supine

Art. N° 35710/32MA
6-points pelvic mask - small
for use with leg separator
prone and supine

Art. N° 35711/32MA
6-points pelvic mask - medium
for use with leg separator
prone and supine

Art. N° 35712/32MA
6-points pelvic mask - large
for use with leg separator
prone and supine

Art. N° 35780/32MA
6-points pelvic mask - large
for use with leg separator
supine
The AIO "long board" base plates ensure a reproducible positioning of all body regions. The base plates remain on the treatment couch - irrespective of the type of radiation treatment - or simulation couch throughout the day.

The AIO carbon fibre laminate base plate is made of a low density carbon fibre laminate sandwich structure with excellent dosimetric properties. It can be extended over the edge of the couch when using IMRT techniques for a 360° free gantry rotation space around the head and neck area.

**FEATURES AND BENEFITS**

The plate is colour marked for easy and fast set-up for the different cushion sets.

Indexing bars can be fitted for indexing vacuum cushions and alpha cradles.

The mask fixation slots (for Efficast masks) are identical as in all other High Precision Base Plates, assuring complete compatibility between all Orfit products.

**AIO BASE PLATES**

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Product description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32301</td>
<td>AIO base plate in carbon fibre laminate</td>
</tr>
<tr>
<td>32204</td>
<td>AIO base plate in high pressure laminate - MR compatible</td>
</tr>
<tr>
<td>32301/NOLS</td>
<td>AIO base plate in carbon fibre laminate - no leg separator</td>
</tr>
<tr>
<td>32301-PED</td>
<td>AIO paediatric base plate in carbon fibre laminate</td>
</tr>
<tr>
<td>32204-PED</td>
<td>AIO paediatric base plate in high pressure laminate - MR compatible</td>
</tr>
<tr>
<td>32301-PED/NOLS</td>
<td>AIO paediatric base plate in carbon fibre laminate - no leg separator</td>
</tr>
<tr>
<td>32301-PED/SS</td>
<td>AIO paediatric base plate in carbon fibre laminate - narrow shoulder slots</td>
</tr>
<tr>
<td>32301-PED/SS/NOLS</td>
<td>AIO paediatric base plate in carbon fibre laminate - narrow shoulder slots and no leg separator</td>
</tr>
<tr>
<td>32301/MR</td>
<td>AIO base plate - MR compatible</td>
</tr>
</tbody>
</table>
## AIO BASE PLATES

<table>
<thead>
<tr>
<th>Art. N° 32204-PED</th>
<th>AIO paediatric base plate</th>
<th>High pressure laminate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. N° 32301-PED</td>
<td>AIO paediatric base plate</td>
<td>Carbon fibre laminate</td>
</tr>
<tr>
<td>Art. N° 32301-PED/NOLS</td>
<td>AIO paediatric base plate</td>
<td>Carbon fibre laminate, narrow shoulder slots and no leg separator</td>
</tr>
<tr>
<td>Art. N° 32301-NOLS</td>
<td>AIO base plate</td>
<td>Carbon fibre laminate, no leg separator</td>
</tr>
<tr>
<td>Art. N° 32301-PED/NOLS</td>
<td>AIO paediatric base plate</td>
<td>Carbon fibre laminate, narrow shoulder slots and no leg separator</td>
</tr>
</tbody>
</table>
The main goal in the positioning of patients with head and neck tumours is a very precise and reproducible positioning and immobilization of the head and upper torso of the patient. To achieve this, a combination of the AIO hardware and Efficast thermoplastic masks provides an ideal solution.

The AIO base plate allows for a reproducible and comfortable positioning of the patient, reducing stress and anxiety.

Efficast 3-points masks assure a precise immobilization of the head and 5-points masks of the head, neck and shoulders.
AIO HEAD SUPPORTS, BLOCKS AND WEDGES

HEAD SUPPORTS

LOW DENSITY
Art. N° 32704 (set)
Set of 6 low density head supports (all sizes)

![Low Density Head Supports](image)

REGULAR DENSITY
Art. N° 32702-MD (set)
Set of regular density head supports (all sizes)

![Regular Density Head Supports](image)

PRONE
Art. N° 32393
Prone head support adjustable in size
Movable forehead cushion

![Prone Head Support](image)
AIO HEAD SUPPORTS, BLOCKS AND WEDGES

POSITIONING BLOCKS AND WEDGES

LOW DENSITY
Art. № 32700 (set)
Set of low density blocks and wedges - CFL

Art. No. 35703
20 mm

Art. N° 35706
40 mm

Art. N° 35704
9°

Art. N° 35707
18°

HIGH DENSITY
Art. № 35754/8 (set)
Set of high density blocks and wedges - rigid PE

Art. N° 35754/1
20 mm

Art. N° 35754/2
40 mm

Art. N° 35754/3
9°

Art. N° 35754/4
18°
AIO ACCESSORIES

AIO STORAGE CABINET

The AIO Storage Cabinet has 5 vertical sliding panels, and can store a complete AIO cushion set, as well as all fixation devices and an AIO board. The panels slide out completely, allowing easy access to the cushions. The cabinet is designed to efficiently store the AIO Solution components in the simulation or treatment room while taking up limited space (width x depth x height = 1600 x 690 x 1980 mm).

Every AIO part has its own dedicated place so that it can easily be found. This reduces patient set-up time and makes inventory control easy in the event of misplaced parts.

The cabinet is made of laminated pressed wood boards, which are easy to clean. It is easy to assemble, but at the same time sturdy to make it long-lasting. The cushions are stored in such a way that they remain well protected from possible damage.
THE AIO SOLUTION®

AIO ACCESSORIES

INDEXABLE KNEE AND FOOT SOLUTIONS

Art. N° 29053
AIO indexable knee frame - short

Art. N° 29054
AIO indexable knee and foot frame

Art. N° 29055
AIO indexable knee frame – long

POSITIONING PLATE

Art. N° 32291
Positioning plate for prone head support
PELVICAST
HIGH PRECISION PELVIS
AND ABDOMEN FRAMELESS
IMMOBILIZATION SYSTEM

The Pelvicast High Precision Frameless Mask System for pelvis and abdomen immobilization consists of a unique combination of three carefully designed and engineered components.

1. Raycast carbon fibre low density hardware.
2. Pelvicast frameless thermoplastic masks.
3. Easy to insert and remove L-shaped profiles as interface between mask and base plate.

When integrated they result in the most accurate, reproducible and comfortable patient immobilization and positioning system.

Orfit has developed a pelvis and abdomen frameless, multi-point masking system that offers the precision in patient immobilization needed with today’s technology to perform IMRT, IGRT, SRS, and SRT.

CLINICAL STUDY
FEATURES AND BENEFITS

Thermoplastic with engineered limited shrinkage that results in a high but comfortable degree of patient immobilization.

Very stable mask limits patient movement and rotation.

Memory effect allows the user to re-mould a finished mask as needed. This provides significant flexibility for modification during a patient treatment or simply to save on waste.

Quick release system allows fast and safe removal with high risk patients.

Innovative integrated L-Profiles enable you to quickly and easily secure the mask to the Pelvicast Base Plate for a precise immobilization.
PELVICAST
BASE PLATES

Orfit’s lightweight, professionally designed and precisely engineered hardware ensures outstanding patient immobilization results.

The Orfit Base Plate design consists of a sandwich construction, with a foam core and ultra thin carbon fibre layer. This results in very low density with the highest possible radiation transmission during treatment.

The use of your existing 2-pin lock bar, Orfit Loxon clamps or a similar device ensures that the Orfit High Precision Base Plate is securely mounted to the table top.

Positioning indicators on the base plate help to reduce patient set-up time and ensure precise positioning and immobilization during each fraction.

Orfit High Precision Base Plates are available and compatible for use with all treatment machines, CT and Simulator table tops.
PELVICAST
BASE PLATES

Art. N° 32122
High precision CFL base plate
For non-indexed couches

Art. N° 32124
High precision CFL base plate
For Exact* or iBEAM* couches

Art. N° 32124/MR
High precision base plate
For Exact* or iBEAM* couches
MR compatible

Art. N° 32123
High precision HPL base plate
For non-indexed couches
With central panel

*Exact is a trademark of VARIAN Medical Systems Inc. / *iBEAM is a trademark of Medical Intelligence
ANTIBACTERIAL PELVIC MASKS

Pelvicast thermoplastic masks reduce the translational and rotational movements of the patients. A specially designed Leg Separator can be inserted into the base plate after the patient has mounted the cushion, to fix a 6-points Pelvicast mask. This type of mask will increase the reproducibility and precision of the immobilization. An extensive range of Pelvicast masks are available to meet specific patient requirements and your immobilization preferences.
ACCESSORIES

LEG SEPARATORS

Art. N° 32037  
Leg separator  
Contains slots for 6-points Pelvicast masks

Art. N° 32008  
Low leg separator for less voluminous patients  
Contains slots for 6-points Pelvicast masks
The Orfit Lung Board has a unique and innovative feature with its T-shaped hand grip that is adjustable in height. This feature increases patient comfort and positioning reproducibility.

The arms can be easily extended above the head for treatments in the thorax and lung area. The hand grip can also be moved in inferior and superior direction and locks once in place.
HIGH PRECISION LUNG BOARD

The lung board can be combined with the standard Orfit High Precision Head Supports with cranial stop, Silverman Head Supports and Timo Head Supports (with the use of an adapter).

Art. N° 29115
For patients receiving multiple radiation therapy treatments, position reproducibility is critical. MammoRx patient positioning products help you to quickly set up patients during simulation and to easily reproduce settings during subsequent treatments.

Accurately establish and reproduce patient positions in breast radiation therapy.
The MammoRx Carbon Fibre Breast Board provides a solution that meets and exceeds the changing needs of radiation therapists.

The system delivers precise immobilization for IMRT, enhanced set-up reproducibility and is compatible with Orfit thermoplastic masks.

**FEATURES AND BENEFITS**

Provide easy and effective reproduction of patient set-up.

Enhance patient comfort through next-generation design improvements.

Thin, strong and light system.

Feature low attenuation levels.
MAMMORX®

MAMMORX®
BREAST BOARD

MAMMORX CARBON FIBRE BREAST BOARD

The MammoRx Carbon Fibre Breast Board is specifically designed for narrow-bore CT SIM environments. As one of the most lightweight boards on the market, the MammoRx Breast Board is easy to lift and replace on the treatment table - a key benefit when you consider how often therapists remove patient positioning boards each day.

Built-in supports allow you to quickly achieve standard treatment angles of 0, 5, 7.5, 10, 12.5, 15, 17.5, 20 and 22.5 degrees.

FEATURES AND BENEFITS

- Fits through most small-bore CT units.
- No metal components in CT scan areas.
- Enables single-side and bilateral patient immobilization.
- Single-handed trigger action enables quick and easy movement of the upper-arm support between four standard settings, providing faster set-up times for patients.
- The hand support can be indexed in ten indexing holes. It allows a more comfortable and stable positioning.
- A plunger locks the angle support ladder in place. This prevents dislocking of the angle support and eliminates the risk of tilt-board collapse.
- Can be combined with Orfit thermoplastic masks for increased precision.

Art. N° CFB-001/EU
MammoRx carbon fibre breast board

Art. N° CFB-001/MR
MammoRx breast board
MR compatible
MAMMORX®
ANTIBACTERIAL MASKS

BREAST HIGH PRECISION PRE-CUTS

Art. N° 35790/2MA
2-points breast mask
rectangular design

Art. N° 35727/32MA
2-points breast mask
medium size

Art. N° 35728/32MA
2-points breast mask
large size
The Adjustable Arm Support allows positioning of the arms of the patient extended above the head. For maximal patient comfort the arm support can be adjusted in height. The cup swivels to obtain a comfortable position for each patient. The support is constructed from MRI compatible materials.

Used with the MammoRx Breast Board, the bottom stop eliminates patient slippage during treatment. The bottom stop is attached to a 2-pin indexing bar on the treatment couch. There are eight different positions for the 2-pin bar.

The adjustable hand support allows adjusting the position of the patient’s wrists and hands in a vertical direction. The cup swivels to obtain a comfortable position for each patient. This product is an alternative to the fixed grip pole.

The fixed grip pole is designed to be combined with the Adjustable Arm Support. When adjusting the height of the arm support, the hands of the patient can easily slide over the grip pole to find the most comfortable position for the patient.
**MAMMORX® ACCESSORIES**

Constructed from resilient ABS material, the BASS Board provides strength and integrity in a lightweight package. Ideal for supporting the patient’s arms during treatment and diagnostic procedures of the breast, thorax and upper abdomen. The BASS Board also provides indexing capabilities for our standard head support options.

The knobs allow the attachment of a head base plate to the MammoRx Breast Board. The knobs have to be combined with an adapter plate 32063 that is attached to a small head base plate 32130.
A blue gel ring head support or a round head cup can be attached directly to the MammoRx.

Interfaces are available for the Orfit High Precision Head Supports, Silverman and Timo Head Supports.
# MAMMORX® SOLUTION BUNDELS

## MAMMORX CARBON FIBRE BREAST BOARD

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Art. N°</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast board</td>
<td>CFB-001/EU</td>
<td>MammoRx carbon fibre breast board</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

## CFB-003/EU - BILATERAL ARM CONFIGURATION

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFB-001/EU</td>
<td>MammoRx carbon fibre breast board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>CHB-1</td>
<td>Blue gel ring head holder</td>
<td>1 pc.</td>
</tr>
<tr>
<td>33170</td>
<td>Adjustable arm support</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>33176</td>
<td>Fixed grip pole</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>CBS-2</td>
<td>MammoRx bottom stop</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

## CFB-004/EU - BILATERAL ARM SUPPORT CONFIGURATION

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>CFB-001/EU</td>
<td>MammoRx carbon fibre breast board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>CHB-1</td>
<td>Blue gel ring head holder</td>
<td>1 pc.</td>
</tr>
<tr>
<td>CBA-1</td>
<td>Bilateral arm support board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>33176</td>
<td>Fixed grip pole</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>CBS-2</td>
<td>MammoRx bottom stop</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

## CFB-005/EU - COMBINATION

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFB-001/EU</td>
<td>MammoRx carbon fibre breast board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>CHB-1</td>
<td>Blue gel ring head holder</td>
<td>1 pc.</td>
</tr>
<tr>
<td>33170</td>
<td>Adjustable arm support</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>CBA-1</td>
<td>Bilateral arm support board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>33176</td>
<td>Fixed grip pole</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>CBS-2</td>
<td>MammoRx bottom stop</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>
### MAMMORX CARBON FIBRE BREAST BOARD

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Art. N°</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast board</td>
<td>CFB-001/EU/NG</td>
<td>MammoRx carbon fibre breast board</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

### CFB-003/EU/NG - BILATERAL ARM CONFIGURATION

| Breast board           | CFB-001/EU/NG | MammoRx carbon fibre breast board           | 1 pc. |
| Head support           | CHB-1        | Blue gel ring head holder                   | 1 pc. |
| Arm support            | 33170        | Adjustable arm support                      | 2 pcs. |
| Grip pole              | 33176        | Fixed grip pole                            | 2 pcs. |
| Bottom stop            | CBS-2        | MammoRx bottom stop                         | 1 pc. |

### CFB-004/EU/NG - BILATERAL ARM SUPPORT CONFIGURATION

| Breast board           | CFB-001/EU/NG | MammoRx carbon fibre breast board           | 1 pc. |
| Head support           | CHB-1        | Blue gel ring head holder                   | 1 pc. |
| Arm support            | CBA-1        | Bilateral arm support board                 | 1 pc. |
| Grip pole              | 33176        | Fixed grip pole                            | 2 pcs. |
| Bottom stop            | CBS-2        | MammoRx bottom stop                         | 1 pc. |

### CFB-005/EU/NG - COMBINATION

| Breast board           | CFB-001/EU/NG | MammoRx carbon fibre breast board           | 1 pc. |
| Head support           | CHB-1        | Blue gel ring head holder                   | 1 pc. |
| Arm support            | 33170        | Adjustable arm support                      | 2 pcs. |
| Arm support            | CBA-1        | Bilateral arm support board                 | 1 pc. |
| Grip pole              | 33176        | Fixed grip pole                            | 2 pcs. |
| Bottom stop            | CBS-2        | MammoRx bottom stop                         | 1 pc. |
## MAMMORX® - MR COMPATIBLE SOLUTION BUNDELS

### MAMMORX BREAST BOARD

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Art. N°</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast board</td>
<td>CFB-001/MR</td>
<td>MammoRx breast board</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

### CFB-003/MR - BILATERAL ARM CONFIGURATION

<table>
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<tr>
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</tr>
<tr>
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<td>33176</td>
<td>2 pcs</td>
</tr>
<tr>
<td>Bottom stop</td>
<td>CBS-2</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

### CFB-004/MR - BILATERAL ARM SUPPORT CONFIGURATION

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### CFB-005/MR - COMBINATION

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<td>Bottom stop</td>
<td>CBS-2</td>
<td>1 pc</td>
</tr>
</tbody>
</table>
Radiation therapy of breast cancer in prone position is an increasingly used treatment technique. Several publications, also recent ones, prove the dosimetric advantage of this technique. When treating a patient in the prone position the heart and lung tissue and the contra-lateral breast will be less affected.
**CLINICAL STUDIES**


“Prone treatment resulted in: improved dose coverage, better homogeneity, less volumes of over-dosage, reduced acute skin desquamation, a 3-fold decrease of moist desquamation, lower incidence of dermatitis, edema, pruritus, and pain. 2- to 4-fold reduction of grades 2-3 toxicity, lower ipsilateral lung and mean LAD dose.”

Stegman, L.D. et al. (2007), Long-Term Clinical outcomes of whole-breast irradiation delivered in the prone position, Int. J. Radiation Oncology Biol. Phys., Vol. 68, No 1, p. 73-81

“Prone position breast irradiation results in similar long-term disease control with a favourable toxicity profile compared with standard supine tangents. The anatomic advantages of prone positioning may contribute to improving the therapeutic ratio of post-lumpectomy radiation by improving dose homogeneity and minimizing incidental cardiac and lung dose.”


“This technique for whole breast radiotherapy is feasible and enables an accelerated regimen in the prone position while sparing the lung and heart.”


“Irradiation of the heart, lungs, chest wall and contralateral breast are minimized with this technique. Prone position breast irradiation appears to be a simple and effective alternative to irradiation of the breast in the conventional supine position when the supine position is likely to result in unacceptable dose inhomogeneity or significant doses to normal tissue.”


“The prone position has been shown to reduce skin reactions by eliminating skin folds.” “This position can reduce late toxicities by greatly reducing the amount of dose to critical organs.” “Dose homogeneity can be improved up to 1.2%.” “The prone position also has shown reduced intrafractional motion while having interfractional motion within tolerance.”
Treatment of the breast with the patient in prone position is perceived by many to be less comfortable and also less reproducible than the supine position. The Sagittilt Prone Breast Solution solves these issues.

When developing the Sagittilt we looked at those aspects that make the supine breast position comfortable and translated that into a prone immobilization device.
TILTING OF THE PATIENT

Sagittilt has a mechanism that allows to rotate a patient along the sagittal axis in a reproducible and safe way. This rotation makes the breast hang further away from heart and lung and at the same time it decreases pressure on the ribs and the contralateral breast to improve the comfort.

The advantage of tilting the entire length of the body along the sagittal axis is that it remains flat on the device. The patient can be tilted from $0^\circ$ to $10^\circ$ with increments of 1 degree. One person only can perform the tilt.
SAGITTILT® FEATURES AND BENEFITS

HIGH REPRODUCIBILITY OF PATIENT POSITION

Sagittilt allows for an optimal reproducibility of the position of a patient by means of supports for the arms, hands, elbows, head and feet that are individually adjustable and indexed, which creates a comfortable, stable and reproducible position for the patient.

The patient’s elbows are positioned in a cup shaped support structure, similar to what is used in supine breast boards. Once the elbows are positioned on the Sagittilt, the position of the shoulders will also be reproducible for each session and the upper body will remain still during treatment.
SAGITILT® FEATURES AND BENEFITS

IMMOBILIZATION WITH A THERMOPLASTIC MASK

A dedicated thermoplastic mask (Art. N° 33774/2MA/12MI+N) for the Sagitilt immobilizes the hips of the patient and keeps the patient in place in a secure way when tilting the system.

Both the thermoplastic mask and the elbow support prevent the patient from sliding sideways when using the tilt function. There are three different positions for the thermoplastic mask: cranial, middle and caudal.

The mask is locked into the board by using two High Precision profiles, which is a patented technology by Orfit.
SAGITTILT®

FEATURES AND BENEFITS

EASY STORAGE

A smartly designed storage cart comes with each Sagittilt so that the system can be moved around effortlessly and placed on the treatment couch without performing heavy lifting.

COUCH INDEXATION

The Sagittilt Prone Breast Solution is attached to the simulation and treatment couch by means of two dedicated 2-pin indexing bars, allowing to place it in a reproducible and safe way on most of the couch tops that are in use.
SAGITTILT® FEATURES AND BENEFITS

HIGH-TECH DESIGN PRODUCT

Sagittilt is the result of an innovative development process and a high-tech production method involving carbon fibre techniques from the aviation industry.

Special attention was given to the design of the product with the purpose of making it patient and user friendly while taking up a minimum amount of space in a treatment or simulation room.

CLINICAL PUBLICATIONS ABOUT THE SAGITTILT PRONE BREAST SOLUTION

Cucchiaro, S. et al. (2014), Clinical Introduction of an all-in class solution for prone breast hypofractionated SIB with multibeam IMRT, Radiotherapy & Oncology, Vol. 111, Supplement 1, p. 47

Lakosi, F. et al. (2014), Hypofractionated whole prone breast RT using Sagittilt system: patient comfort, setup accuracy and acute toxicity, Radiotherapy & Oncology, Vol. 111, Supplement 1, p. 477


Lakosi, F. et al. (2016), Feasibility evaluation of prone breast irradiation with the Sagittilt system including residual-intrafractional error assessment, Radiothérapie Cancer, 20(8), p. 776-782
SAGITILT®
ANTIBACTERIAL MASK

Art. N° 33774/2MA/12M1+N
2-points hybrid hip mask
SAGITTILT® ACCESSORIES

Art. N° 32070/16
Comfort cushion with aluminium post for Sagittilt

Art. N° 32070/14
Sanitary cover for Sagittilt forehead support (package of 50 pieces)

Art. N° 32070/16
Sagittilt sanitary cover for comfort cushion (package of 50 pieces)
The SBRT Solution is developed in collaboration with users worldwide based on existing SBRT studies, products available on the market and on-site testing to provide a system which combines high technology, ease of use and precision to meet current and future demands.

The SBRT Solution provides a precise, stable and easy to use set-up that allows to apply the most effective radiation treatment method for thoracic and abdominal tumours. The SBRT Solution is MR safe.

Developed in collaboration with users worldwide.
SBRT SOLUTION
FEATURES AND BENEFITS

Various configurations of the product are available to adapt it to your needs.

> SBRT Long Base Plate vs SBRT Short Base Plate
> Arm set-up with cushions vs MammoRx arm supports
> Mechanical vs pneumatic abdominal compression system
SBRT SOLUTION
FEATURES AND BENEFITS

POSITIONING OF THE ARMS

MammoRx arm set-up
The MammoRx arm supports and hand grips are compatible with the SBRT Solution.
SBRT SOLUTION
FEATURES AND BENEFITS

POSITIONING OF THE ARMS

Support cushion arm set-up
Another option to position the arms is the use of a cushion. The arm rest cushion can be lifted with the use of an elevation cushion. There is a cranial and a caudal position for these cushions. Various indexed positions are available for the hand grips for optimal comfort and reproducibility.
SBRT SOLUTION
FEATURES AND BENEFITS

POSITIONING OF KNEES AND FEET

The knee and feet supports are indexed on top of the long base plate.

When using the short base plate, the knee and feet supports are attached to the treatment couch with a 2-pin indexing bar.

Longitudinal indexing of the knee support cushion.

Longitudinal indexing of the feet support cushion.
ABDOMINAL COMPRESSION SYSTEMS

Mechanical pressure system
The mechanical pressure system consists of a bridge with a pressure plate and a screw. There is a low and a high version of the bridge. The position of the bridge can be adjusted in the longitudinal and vertical direction.
Pneumatic pressure belt system
Abdominal compression can also be created with a pressure belt with inflatable air bladder. The pressure belt is available in two different sizes: 120 cm (Art. N° 32317/9) and 130 cm (Art. N° 32317/18) long.
SBRT SOLUTION
FEATURES AND BENEFITS

VACUUM BAG

Various sizes of vacuum bags can be indexed both on the SBRT Long and the Short Base Plate.

Note: when using a vacuum bag, blocks will need to be placed underneath the head support to elevate the head of the patient.
SBRT SOLUTION FEATURES AND BENEFITS

COMPATIBILITY WITH THE AIO SOLUTION

The long SBRT base plate can be combined with two sets of The AIO Solution:
> The Breast- and Lung Board Solution
> The Belly- and Pelvic Board Solution (except the Leg Separator)
SBRT
ANTIBACTERIAL MASKS

Slots are provided over the entire length of the long base plate to allow the use of different thermoplastic masks.
SBRT

ANTIBACTERIAL MASKS

Art. N° 33724/32MA
6-points thorax and abdomen supine mask

Art. N° 33683/32MA
4-points shoulders and thorax mask for SBRT

Art. N° 35788/32MA
4-points pelvic mask
small size

Art. N° 35787/32MA
4-points pelvic mask
medium size

Art. N° 35784/32MA
4-points pelvic mask
large size
SBRT BASE PLATES

Art. N° 32317/1  
SBRT long base plate  
MR compatible  
Also available for Elekta HexaPOD™ evo RT System (Art. N° 32317/1/HX)

Art. N° 32317/14  
SBRT short base plate  
MR compatible

Art. N° 32317/19  
SBRT long base plate with extra lung slots  
MR compatible
SBRT SOLUTION BUNDLES

**PACKAGE 1: SBRT LONG BASE PLATE**

**MECHANICAL PRESSURE SYSTEM + CUSHION ARM SET-UP**

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32317/1</td>
<td>Long SBRT Base Plate</td>
</tr>
<tr>
<td>32317/2</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td>32317/4</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td>32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td>32317/6</td>
<td>Arm rest support plate</td>
</tr>
<tr>
<td>32317/8</td>
<td>Arm rest cushion</td>
</tr>
<tr>
<td>32317/11</td>
<td>Arm rest elevation cushion</td>
</tr>
<tr>
<td>32015/9/2</td>
<td>Grip pole long - 2 pcs.</td>
</tr>
<tr>
<td>32015/9/3</td>
<td>Grip pole short - 2 pcs.</td>
</tr>
<tr>
<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>
# SBRT SOLUTION BUNDLES

## PACKAGE 3: SBRT LONG BASE PLATE

**MECHANICAL PRESSURE SYSTEM + MAMMORX ARM SET-UP**  
Art. N° 32336

<table>
<thead>
<tr>
<th>Art. N°</th>
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</tr>
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<tbody>
<tr>
<td>32317/1</td>
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</tr>
<tr>
<td>32317/15</td>
<td>Arm rest support plate for upper arm supports and wrist supports</td>
</tr>
<tr>
<td>33170</td>
<td>Adjustable arm support</td>
</tr>
<tr>
<td>33170</td>
<td>Adjustable arm support</td>
</tr>
<tr>
<td>33176</td>
<td>Fixed grip pole</td>
</tr>
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<td>Fixed grip pole</td>
</tr>
<tr>
<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>

## PACKAGE 4: SBRT LONG BASE PLATE

**PNEUMATIC PRESSURE BELT SYSTEM + MAMMORX ARM SET-UP**  
Art. N° 32337

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
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<tbody>
<tr>
<td>32317/1</td>
<td>Long SBRT base plate</td>
</tr>
<tr>
<td>32317/9</td>
<td>Pressure belt 120 cm - with manual pump</td>
</tr>
<tr>
<td>32317/4</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td>32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td>32317/15</td>
<td>Arm rest support plate for upper arm supports and wrist supports</td>
</tr>
<tr>
<td>33170</td>
<td>Adjustable arm support</td>
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<td>33170</td>
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</tr>
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<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>
### PACKAGE 1: SBRT SHORT BASE PLATE

**MECHANICAL PRESSURE SYSTEM + CUSHION ARM SET-UP**

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
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</thead>
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<tr>
<td>32317/14</td>
<td>Short SBRT base plate</td>
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<tr>
<td>32317/2</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td>32317/4</td>
<td>Knee support - indexed</td>
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<td>32317/5</td>
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<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
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### PACKAGE 2: SBRT SHORT BASE PLATE

**PNEUMATIC PRESSURE BELT SYSTEM + CUSHION ARM SET-UP**

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<tr>
<td>32317/9</td>
<td>Pressure belt 120 cm - with manual pump</td>
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</table>
SBRT SOLUTION BUNDLES

PACKAGE 3: SBRT SHORT BASE PLATE
MECHANICAL PRESSURE SYSTEM + MAMMORX ARM SET-UP  Art. N° 32331

<table>
<thead>
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PACKAGE 4: SBRT SHORT BASE PLATE
PNEUMATIC PRESSURE BELT SYSTEM + MAMMORX ARM SET-UP  Art. N° 32332

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</table>
Orfit offers a complete immobilization solution, specifically designed for fixation of extremities in a reproducible way.

The system consists of a low density carbon fibre base plate with a leg support, two comfort cushions and dedicated masks. The base plate can be indexed to any couch top on 2-pin bars and has multiple holes to offer a maximum of possibilities for positioning and immobilizing both upper and lower extremities.

When using the leg support, one leg can be lifted and placed out of the treatment field. Masks can be made on the leg support as well as on the base plate itself. Foam cushions are placed under the knee and heel to provide patient comfort. Upper extremities can be immobilized while the patient is lying on the couch, or sitting next to it. In both cases, masks are made over the elbow and hand to obtain an immobilization with excellent reproducibility. Comfort cushions are used under the elbow and the hand for patient comfort.
THE EXTREMITIES SOLUTION

EXTREMITIES BASE PLATES

Art. N° 32103
Set - CFL

Art. N° 32103/1
Base plate - CFL

Art. N° 32103/3
Leg support - CFL
ANTIBACTERIAL MASKS FOR EXTREMITIES

Art. N° 35792/32MA
3-points foot mask

Art. N° 35793/32MA
2-points knee mask

Art. N° 35794/2MI
2-points hand mask

Art. N° 35795/2MI
2-points elbow mask - straight

Art. N° 35796/2MI
4-points elbow mask - curved

Art. N° 35799/2MI/R
5-points shoulder mask (right shoulder)

Art. N° 35799/2MI/L
5-points shoulder mask (left shoulder)
Orfit offers an extensive range of accessories to increase the precision and comfort of your treatment.

- Vacuum bags
- Moldcare
- Bolus material
- Cyberknife full body cushion
- Comfort cushions
- Water bath
- Digital dry-heat convection oven
- Cleaning products
- Storage solutions
- Fixation devices
The combination of Orfit Vacuum Bag Cushions and Efficast High Precision Frameless masks enables you to achieve a highly customized immobilization of your patient with high precision, excellent reproducibility and great comfort for the patient.

The Orfit Vacuum Bags are made from radio-translucent materials that will provide artefact free image clarity with minimal beam attenuation. A special coated nylon bag material in combination with the thin fill helps to ensure intimate mould definition. The bags are easy to clean and are designed to withstand the rough handling conditions of a busy radiation oncology department. A moulded Orfit Vacuum Bag will maintain its integrity during the course of treatment (up to six weeks), which ensures precise and reproducible patient positioning from imaging through the entire treatment process. The Orfit vac bags are compatible for use with CT, MRI (when used with Orfit MRI compatible base plates), PET/CT, SPECT and Ultrasound imaging modalities.

The Orfit Vacuum Bag Cushion (VBC) System includes the following immobilization/positioning applications:

> Custom individual patient head support: The small size Orfit bag (Art. N° 18055) when used in combination with the Orfit 3D Head Support enables you to create a custom head support mould that eliminates all gaps in the neck area while providing unmatched patient comfort.

> Custom thoracic immobilization/positioning: The half-body Orfit bag (Art. N° 18056) is perfect when you need to create a customized thoracic immobilization. The half-body bag is compatible for use with the Orfit All-in-One Base Plate and SBRT Base Plates.

> Custom paediatric CNS immobilization/positioning: The paediatric full body Orfit bag (Art. N° 18057) is designed specifically for CNS treatment.
ACCESSORIES

VACUUM BAGS

Art. N° 18209
AIO vacuum bag half body - adult

Art. N° 18210
AIO vacuum bag full body - paediatric

Art. N° 18211
T-shape vacuum bag for head, neck and shoulders

Art. N° 18208
Individual head support vacuum bag
## VACUUM BAGS

### NON-INDEXED VACUUM BAGS

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Product description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18200</td>
<td>Vacuum bag 700 x 1825 mm / 50 liter</td>
</tr>
<tr>
<td>18201</td>
<td>Vacuum bag 1130 x 1375 mm / 51 liter / T-shape</td>
</tr>
<tr>
<td>18202</td>
<td>Vacuum bag 850 x 1825 mm / 75 liter</td>
</tr>
<tr>
<td>18203</td>
<td>Vacuum bag 900 x 2325 mm / 117 liter</td>
</tr>
<tr>
<td>18204</td>
<td>Vacuum bag 700 x 1625 mm / 45 liter</td>
</tr>
<tr>
<td>18205</td>
<td>Vacuum bag 750 x 1025 mm / 35 liter</td>
</tr>
<tr>
<td>18206</td>
<td>Vacuum bag 700 x 1625 mm / 58 liter</td>
</tr>
<tr>
<td>18207</td>
<td>Vacuum bag 850 x 1540 mm / 53 liter</td>
</tr>
<tr>
<td>18208</td>
<td>Vacuum bag 200 x 450 mm / 0.9 liter</td>
</tr>
<tr>
<td>18209</td>
<td>Vacuum bag 480 x 900 mm / 16 liter</td>
</tr>
<tr>
<td>18210</td>
<td>Vacuum bag 340 x 1240 mm / 16 liter</td>
</tr>
<tr>
<td>18211</td>
<td>Vacuum bag 595 x 600 mm / 7 liter / T-shape Head, neck and shoulders</td>
</tr>
<tr>
<td>18212</td>
<td>Vacuum bag 700 x 7000 mm / 30 liter</td>
</tr>
</tbody>
</table>

### INDEXED VACUUM BAGS

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Product description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18200/INDEX</td>
<td>Vacuum bag 700 x 1825 mm / 50 liter - indexed</td>
</tr>
<tr>
<td>18201/INDEX</td>
<td>Vacuum bag 1130 x 1375 mm / 51 liter / T-shape - indexed</td>
</tr>
<tr>
<td>18202/INDEX</td>
<td>Vacuum bag 850 x 1825 mm / 75 liter - indexed</td>
</tr>
<tr>
<td>18203/INDEX</td>
<td>Vacuum bag 900 x 2325 mm / 117 liter - indexed</td>
</tr>
<tr>
<td>18204/INDEX</td>
<td>Vacuum bag 700 x 1625 mm / 45 liter - indexed</td>
</tr>
<tr>
<td>18205/INDEX</td>
<td>Vacuum bag 750 x 1025 mm / 35 liter - indexed</td>
</tr>
<tr>
<td>18206/INDEX</td>
<td>Vacuum bag 700 x 1625 mm / 58 liter - indexed</td>
</tr>
<tr>
<td>18207/INDEX</td>
<td>Vacuum bag 850 x 1540 mm / 53 liter - indexed</td>
</tr>
</tbody>
</table>
ACCESSORIES

VACUUM BAG
ACCESSORIES

HOSES AND CONNECTORS

Art. N° 18097
Hose connector for hose ID4 + 5/32

Art. N° 18054
Transparent hose ID4 (2 meters)

SIDE PANELS FOR MOULDING

Art. N° 32030
Side panels for individual cushions (4 pcs.)

PUMPS

Art. N° 18058
Vacuum pump with hose, hose connector and cable

Art. N° 18076
High capacity vacuum pump with hose, hose connector and cable

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Voltage</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>18058/230EU</td>
<td>230</td>
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<td>18058/230UK</td>
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<td>18058/230CH</td>
<td>230</td>
<td>CH</td>
</tr>
<tr>
<td>18058/100J</td>
<td>100</td>
<td>J</td>
</tr>
<tr>
<td>18058/115</td>
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<td>US</td>
</tr>
<tr>
<td>18076/230EU</td>
<td>230</td>
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<td>230</td>
<td>UK</td>
</tr>
<tr>
<td>18076/230CH</td>
<td>230</td>
<td>CH</td>
</tr>
<tr>
<td>18076/100J</td>
<td>100</td>
<td>J</td>
</tr>
<tr>
<td>18076/115</td>
<td>115</td>
<td>US</td>
</tr>
</tbody>
</table>
INDEXING DEVICES

You can easily index the vacuum bags directly to the couch top using a 2-pin bar.

The arm rest adapter provides increased comfort and support by ensuring a smooth transition from thorax to shoulders and arms.

Art. N° 18059
Indexing bar (1pc.)

Art. N° 29036
AIO arm rest adapter for use with vacuum bag

The indexing bar can be used in combination with a 2-pin bar or an Orfit base plate.
ACCESSORIES

MOLDCARE*

Art. N° 18090
15 cm x 20 cm

Art. N° 18091
20 cm x 25 cm

Art. N° 18092
20 cm x 45 cm

Art. N° 18094
Moldcare cushion type S

* Moldcare is a trademark from ALCARE
BOLUS MATERIAL

The thermoplastic bolus material, which is available in sheets and pellets, is a specially formulated, rigid thermoplastic with a low melting temperature. It is very easy to mould and can be placed on thermoplastic masks. After heating, it also sticks to itself, which makes it possible to make thicker bolus sheets if needed.

SHEETS BEIGE

- Art. N° 8336.S01/R/53
  10 cm x 10 cm x 5 mm

- Art. N° 8336.S01/R/58
  15 cm x 15 cm x 5 mm

- Art. N° 8336.S01/R/59
  20 cm x 20 cm x 5 mm

- Art. N° 8336.R01/R/60
  30 cm x 30 cm x 5 mm

- Art. N° 8336.R01/R
  45 cm x 60 cm x 2 mm
ACCESSORIES

BOLUS MATERIAL

SHEETS BEIGE

Art. N° 8336.501/R/53 - 1 CM
10 cm x 10 cm x 10 mm

Art. N° 8336.501/R/58 - 1 CM
15 cm x 15 cm x 10 mm

Art. N° 8336.501/R/59 - 1 CM
20 cm x 20 cm x 10 mm

Art. N° 8336.501/R/60 - 1 CM
30 cm x 30 cm x 10 mm
BOLUS MATERIAL

SHEETS WHITE

Art. N° 8313N.501/R
22.5 cm x 20 cm x 2 mm

PELLETS

Art. N° 8333N.501/R
45 cm x 60 cm x 2 mm

Art. N° 703011/1
Bag of 500g
The full body cushion for the Cyberknife Couch Top is designed for spinal and thorax treatment. The patient is positioned supine on the cushion with the arms along the side of the body.

Due to the narrow width of the cushion, the arms will be positioned next to the cushion on the treatment table, instead of on top of the cushion.

This allows the use of lateral fields to radiate the spine and thorax without the arms being located in the treatment field.
COMFORT CUSHIONS
ACCESSORIES

COMFORT CUSHIONS

PATIENT SUPPORT CUSHIONS

Art. N° 32005/2-V2
Trunkal cushion
800 x 400 x 20 mm

Art. N° 32005/4-V2
Small block
200 x 200 x 40 mm

Art. N° 32005/5-V2
Medium block
200 x 200 x 60 mm

Art. N° 32005/6-V2
Large block
200 x 200 x 100 mm

Art. N° 32005/8-V2
Wide wedge
400 x 250 x 100 mm
19.8°

Art. N° 32005/8A-V2
Small wedge
200 x 250 x 100 mm
19.8°

Art. N° 32005/10-V2
Leg support
400 x 400 mm

Art. N° 32005/11-V2
Foot support
400 x 150 x 200 mm
COMFORT CUSHIONS

PATIENT SUPPORT CUSHIONS

Use in combination with our standard products to increase patient comfort.

Art. N° 32005/14-V2
Cylindrical knee support
544 x D200 mm

Art. N° 32005/15-V2
Half cylindrical knee support
544 x R100/50 mm

Art. N° 32006-V2
Set of 10 comfort cushions
WATER BATH

FEATURES AND BENEFITS

Extra-large to fit every size of mask (inner dimensions: 74cm x 54.5cm x 9.5cm).

A grill to lift the mask out of the water without putting your hands in the water.

A built-in thermometer [°C and °F] that indicates when the water has reached the target temperature.

A built-in timer.

Easy to empty with a tap on the side.

Available in 115V and 230V.

Art. N° 35097/RE
Cleaning product for water bath
500 ml

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Voltage</th>
<th>Region/Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>35097/115/1400</td>
<td>115</td>
<td>US</td>
</tr>
<tr>
<td>35097/230/1400</td>
<td>230</td>
<td>EU</td>
</tr>
<tr>
<td>35097/230/1400/UK</td>
<td>230</td>
<td>UK</td>
</tr>
</tbody>
</table>
DIGITAL DRY-HEAT CONVECTION OVEN

FEATURES AND BENEFITS

Two large grid platforms for heating multiple masks at the same time.

All sizes of Orfit masks fit in the oven, including the largest head, neck and shoulders masks and extra-cranial masks (inner dimensions: 700 x 570 x 240 mm)

Multi-functional digital touch screen with build-in timer.

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Voltage</th>
<th>Region/Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>35118/230EU</td>
<td>230</td>
<td>EU</td>
</tr>
<tr>
<td>35118/230UK</td>
<td>230</td>
<td>UK</td>
</tr>
<tr>
<td>35118/120US</td>
<td>120</td>
<td>US</td>
</tr>
</tbody>
</table>
These spray and wet wipes cleaning products are suitable for cleaning of Orfit immobilization devices.

**ACCESSORIES**

**CLEANING PRODUCTS**

- **Art. N° 32836**
  - Aniospray Quick
  - (3 bottles and 1 atomizer)

- **Art. N° 32837**
  - Wip’anios Excel package (100 wipes)
STORAGE SOLUTIONS

Art. N° 32044
Storage stand for base plates

Art. N° 29099
Wall mount storage stand for base plates
ACCESSORIES

FIXATION DEVICES

Other fixation devices can be found on www.orfit.com

Art. N° 32154
2-pin indexing bar for Exact* couches

Art. N° 32166
2-pin indexing bar for Exact* couches

Art. N° 32190
2-pin indexing bar for Pinpoint couches - 50 cm

Art. N° 32191
2-pin indexing bar for iBEAM* couches

Art. N° 32165
2-pin indexing bar for Prodigy couches - 53 cm

Art. N° 32208
2-pin indexing bar for Prodigy 2 couch - 53 cm

Art. N° 32190
2-pin indexing bar for Pinpoint couches - 50 cm

*Exact is a trademark of VARIAN Medical Systems Inc. / *iBEAM is a trademark of Medical Intelligence
# DOSIMETRIC CHART

## THERMOPLASTIC MASK MATERIALS

<table>
<thead>
<tr>
<th>Product reference</th>
<th>Measured values</th>
<th>Density (g/cm³)</th>
<th>Absorption Factor (AF%) (± 0,15%) 6MV (%)</th>
<th>Skin build-up (mm H₂O equiv.) (± 0,1 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficast 1.6 mm micro</td>
<td></td>
<td>1,13</td>
<td>0,40</td>
<td>0,20</td>
</tr>
<tr>
<td>Efficast 2 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,40</td>
<td>0,20</td>
</tr>
<tr>
<td>Efficast 2 mm micro</td>
<td></td>
<td>1,13</td>
<td>0,45</td>
<td>0,25</td>
</tr>
<tr>
<td>Efficast 2.4 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,50</td>
<td>0,35</td>
</tr>
<tr>
<td>Efficast 3.2 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,70</td>
<td>0,45</td>
</tr>
<tr>
<td>Nanor 1.2 mm micro+</td>
<td></td>
<td>1,17</td>
<td>0,32</td>
<td>0,25</td>
</tr>
<tr>
<td>Nanor 1.6 mm micro+</td>
<td></td>
<td>1,17</td>
<td>0,46</td>
<td>0,32</td>
</tr>
<tr>
<td>U-Plast 1.6 mm micro</td>
<td></td>
<td>1,13</td>
<td>0,40</td>
<td>0,20</td>
</tr>
<tr>
<td>U-Plast 2 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,40</td>
<td>0,20</td>
</tr>
<tr>
<td>U-Plast 2.4 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,50</td>
<td>0,35</td>
</tr>
<tr>
<td>U-Plast 3.2 mm maxi</td>
<td></td>
<td>1,13</td>
<td>0,70</td>
<td>0,45</td>
</tr>
<tr>
<td>Hybrid (Efficast 2MA, Orfilight 16MI)</td>
<td></td>
<td>NA</td>
<td>0,65</td>
<td>0,45</td>
</tr>
<tr>
<td>Hybrid (Efficast 16MI, Nanor 12MI+)</td>
<td></td>
<td>NA</td>
<td>0,54</td>
<td>0,34</td>
</tr>
<tr>
<td>Bolus (per mm of material)</td>
<td></td>
<td>1,13</td>
<td>0,28</td>
<td>0,20</td>
</tr>
<tr>
<td>HP L-Shaped profiles [ABS]</td>
<td></td>
<td>1,13</td>
<td>0,73</td>
<td>0,53</td>
</tr>
</tbody>
</table>

Note: Use these numbers as a guidance only. Perform the measurements again in your department to verify these results.
## DOSIMETRIC CHART

### POSITIONING HARDWARE

<table>
<thead>
<tr>
<th>Product reference</th>
<th>Measured values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Density (g/cm³)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Base plates</strong></td>
<td></td>
</tr>
<tr>
<td>12 mm thick in carbon fibre laminate - 32110, 32130, 32140, 32111, 32122, 32124</td>
<td>NA</td>
</tr>
<tr>
<td>12 mm thick in high pressure laminate - 35751N, 35754/6N</td>
<td>1,40</td>
</tr>
<tr>
<td>30 mm thick in carbon fibre laminate or glass fiber - 32301, 32150 (also the NOLS and PED versions), 32317/1, 32317/14, 32317/19</td>
<td>NA</td>
</tr>
<tr>
<td>30 mm thick AlO in high pressure laminate - 32204</td>
<td>1,40</td>
</tr>
<tr>
<td>12 mm thick in polycarbonate - 32113, 32117, 32097, 32809</td>
<td>1,20</td>
</tr>
<tr>
<td><strong>Head Supports</strong></td>
<td></td>
</tr>
<tr>
<td>Low density range (in %/cm foam)</td>
<td>0,03</td>
</tr>
<tr>
<td>Regular density range (in %/cm foam)</td>
<td>0,22</td>
</tr>
<tr>
<td><strong>Blocks and wedges</strong></td>
<td></td>
</tr>
<tr>
<td>Blocks and wedges in carbon fibre laminate</td>
<td>NA</td>
</tr>
<tr>
<td>Blocks and wedges in rigid PE</td>
<td>0,95</td>
</tr>
<tr>
<td><strong>AlO Cushions</strong></td>
<td></td>
</tr>
<tr>
<td>Per cm of foam</td>
<td>0,03</td>
</tr>
<tr>
<td><strong>Vacuum Bags</strong></td>
<td></td>
</tr>
<tr>
<td>10 mm thickness (deflated)</td>
<td>NA</td>
</tr>
<tr>
<td>100 mm thickness (deflated)</td>
<td>NA</td>
</tr>
</tbody>
</table>

Note: Use these numbers as a guidance only. Perform the measurements again in your department to verify these results.
Orfit offers a variety of tools to help improve the experience with the Orfit immobilization devices. These tools include technical data sheets, patient set-up forms, instructions for use, instructional movies, etc.

WEBSITE
www.orfit.com

The Orfit website is a rich source of valuable and useful information. It contains information on all products and accessories, as well as instructions for use.

INSTRUCTIONAL VIDEOS
www.youtube.com/OrfitIndustries

> How to mould a 3-points mask
> How to mould a 5-points mask
> How to mould a 3-points open face hybrid mask
> How to mould a 5-points open face hybrid mask
> The AIO Solution
> Sagittilt Prone Breast Solution
> The SBRT Solution

ORFIT BLOG
www.orfit.com/radiation-oncology/blog

New products, press releases and relevant industry news can be found on the Orfit blog.

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www.twitter.com/orfit