



# ORFIT PRODUCTS CONTRIBUTE SIGNIFICANTLY TO AN EXCELLENT THERAPY OUTCOME



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**INNOVATIONS  
FOR PATIENT  
IMMOBILIZATION  
IN RADIATION  
ONCOLOGY**



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# PROUD TO STATE THAT WE ARE A COMPLETE SOLUTION PROVIDER



For more than twenty years, Orfit Industries 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 utmost importance.

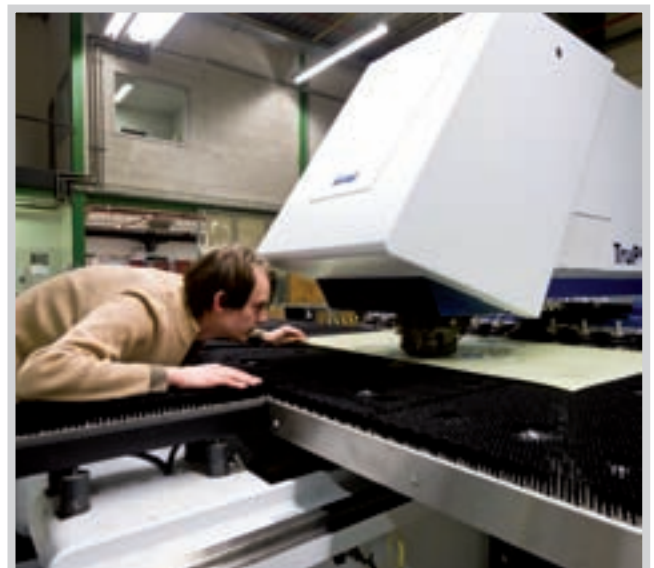
The Raycast High Precision Product Group for Head & Neck, THE AIO SOLUTION for extra-cranial procedures and our Efficast and Uon/Duon thermoplastic pre-cuts for all available hardware systems form a complete range of high quality immobilization and positioning products for all conventional radiation therapy procedures as well as

for IMRT, IGRT, Hypo-fractionated RT, SRT, SRS and 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 Industries, 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.



# EFFECTIVE PATIENT IMMOBILIZATION FOR RADIATION THERAPY



## Controlled Fixation force is the Key

Today's imaging and target localization possibilities allow you to see how your treatment plan corresponds with the location of the tumour. 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 Industries are an active component in achieving a high quality radiation therapy.

Our thermoplastic masks immobilize a patient effectively to a point where movement of less than 1.5 millimeter is possible.

The Efficast thermoplastic material allows you to remould a mask when the patient's volume has increased or decreased.

Orfit Industries' engineers developed a (patented) method to measure the relationship between mask contraction and fixation force.

- Precision, Stability and Comfort of Patient Immobilization in Radiation Therapy

*Dr. Bogdan Bogdanov*

The Orfit range of products allows for a perfect balance between patient comfort and restriction of movement.

UON and DUON give a comfortable immobilization where poor patient conditions form a restriction.

Efficast High Precision masks restrict movement to the golden standard of less than 2 mm.

Efficast Hybrid masks bring the movement restriction down to less than 1.5 millimeter.

The unique features of our thermoplastic materials, in combination with our head rests 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.

A number of clinical studies have proven the effectiveness of Efficast in combination with Raycast High Precision hardware.

- **Repositioning accuracy of a commercially available thermoplastic mask system**

*Martin Fuss - Radiotherapy and Oncology 71 (2004) 339-345*

- **Six dimensional analysis with daily stereoscopic x-ray imaging of intrafraction patient motion in head and neck treatments using five points fixation masks**

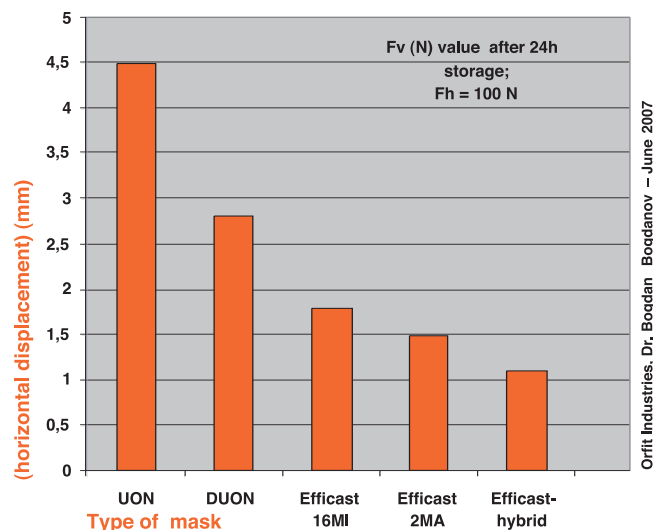
*Nadine Linthout - Med. Phys. 33 (2), February 2006, 504-513*

- **The evolution of quality assurance for intensity-modulated radiation therapy (IMRT): sequential tomotherapy**

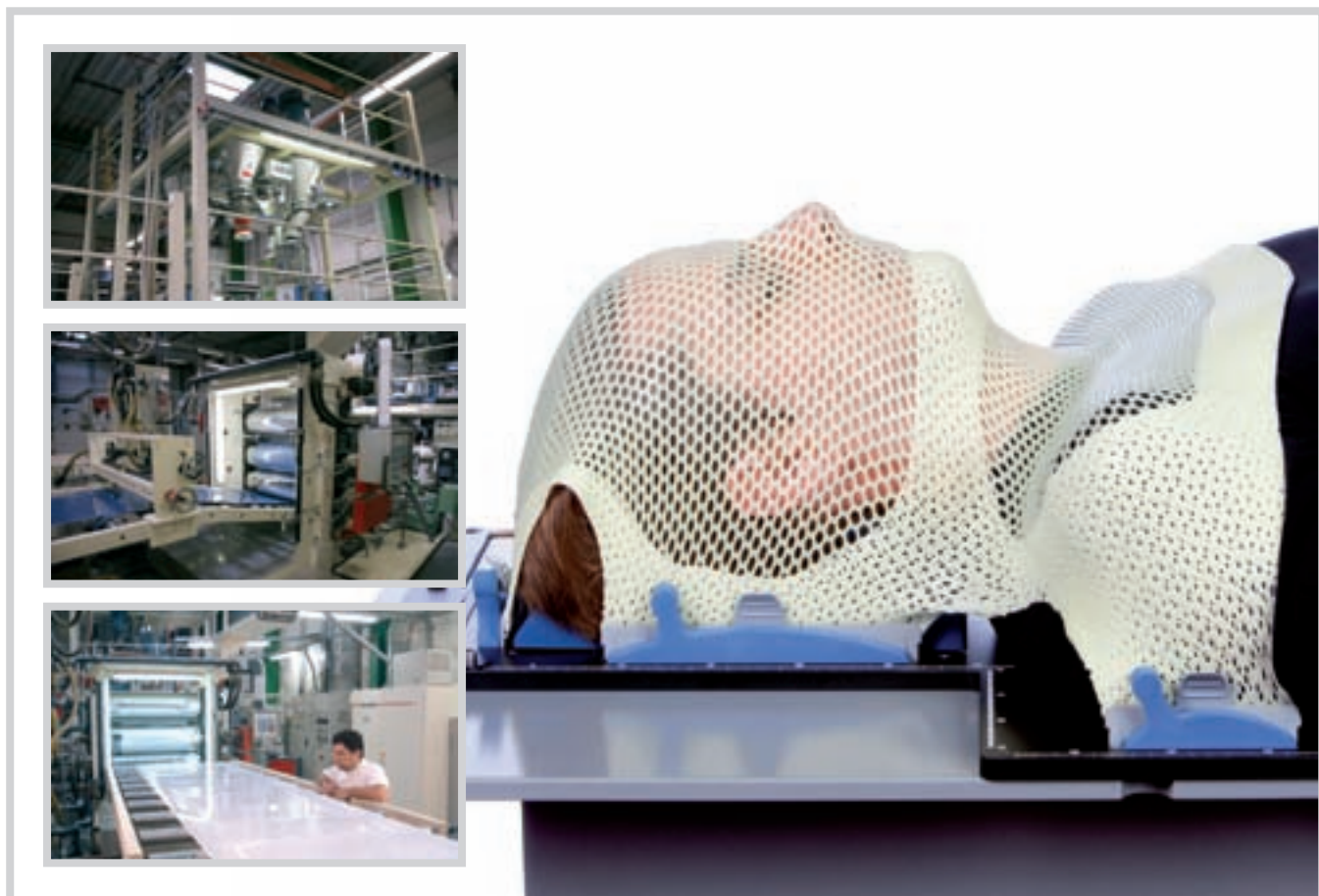
*Woo SY, Grant W 3rd, McGary JE, The BS, Butler EB*

*Int J Radiat Oncol Biol Phys. 2003 May 1;56(1):274-86*

### Stability of different immobilization masks from Orfit Industries



### Not all thermoplastics are the same



# HIGH PRECISION HEAD, NECK AND SHOULDERS IMMOBILIZATION SYSTEM FOR RT, SRT, SRS AND HIGH ENERGY RT

The Orfit High Precision (HP) Mask System for Head, Neck and Shoulders consists of a unique combination of three carefully designed and engineered components. When integrated they result in the utmost accurate, reproducible and comfortable patient positioning and immobilization system.

Efficast thermoplastic masks with easy to fix and remove L-shaped profiles as interface between mask and base plate.

- Raycast HP carbon fibre low density base plates and extensions for treatment machines.

- Head rests with cranial stop and with positioning blocks and wedges.





Orfit Industries' unique masking technology increases the effect of patient immobilization on RT outcome by offering a (sub)millimeter precision needed with today's technology to perform IMRT, IGRT, SRS, SRT, Robotic RT and high energy RT. 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.

## **1** **PRECISION/ACCURACY** **Limit patient movement**

- Overall mask stability limits patient displacement to less than 2 mm within the mask.
- Low-stretch draping method provides greater contouring and rigidity.
- L-Profile technology secures more of the mask to the base plate.

## **2** **REPRODUCIBILITY** **Reduce daily shifts**

- 3D Head Supports with cranial back stop that cradles the patient's head.
- Well defined and indexable thermoplastic masks insure consistent daily position.
- Openings at cranial end of mask provide space for patients with long hair.

## **3** **PATIENT COMFORT** **Increase acceptance**

- Antibacterial non-stick coating with soft surface feel.
- Comfortable foam head supports.
- Thermoplastic with engineered limited shrinkage.
- Cooler activation temperature of 65°-70°C. (149°F - 158°F)

In addition to these fundamental advantages, the Orfit High Precision Head/Neck thermoplastics have other unique characteristics not found with any other manufacturer.

1. Thermoplastic with superior moulding properties that result in a high but comfortable degree of patient immobilization.
2. Very stable mask preventing chin-drop and shoulder rotation.
3. 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.
4. Thinner masks resulting in less absorption and increased skin sparing.
5. Positioning blocks and wedges that effectively support different neck shapes and allow for flexion and extension positioning of the head.
6. Quick Release system allows for fast and safe removal of the mask from the patient.



# EFFICAST® HIGH PRECISION ANTIBACTERIAL MASKS FOR HEAD, NECK AND SHOULDERS

Efficast masks offer a unique combination of high precision immobilization, ease of moulding, safety and comfort for the patient. Our care for clinical requirements, our R&D expertise and our high-tech production capabilities result in a product offering that covers the needs of every kind of therapy, from conventional RT over IMRT/IGRT to SRT, SRS, Robotic RT and High Energy RT.

Immobilizing a patient has never been easier, more precise and safer. All Efficast thermoplastic pre-cut masks have innovative integrated L-shaped profiles that enable you to quickly and easily secure the mask to the base plate and to quickly remove it without effort. Efficast masks are treated with a non-stick coating that has antibacterial properties and that prevents sticking of the mask to skin, hair and hardware.

## Benefits of Efficast HP masks

- Perfect fit around the patient's anatomy.
- High degree of patient comfort.
- Uniform low stretch and very low shrinkage



- factor give you total moulding control.
- Moulding at a low temperature (65°-70°C) (149° -158°F) results in a comfortable surface feel for increased patient and user comfort.



- Your choice of masks with multiple independent moulding points for unsurpassed patient immobilization.
- Efficast masks come with 3, 4 or 5 independent moulding points to meet the specific immobilization needs of the treatment.
- Efficast 3-points masks assure a precise immobilization of the head, 4 and 5-points masks enable you to precisely immobilize the head and shoulders.
- Multiple independent moulding points allow for the perfect contouring of the mask to the patient's anatomy. This results in the highest possible degree of immobilization and patient comfort.
- Our innovative Hybrid HP masks ensure extra high precision (below 2.0 mm) of the immobilization.
- Efficast thermoplastic HP masks include innovative integrated L-Profiles that enable you to quickly and easily secure the mask to the base plate.
- Easy to mould - Easy to use.
- 100% memory enables you to remould the mask to accommodate changes in the patient's anatomy that may occur during the course of treatment.

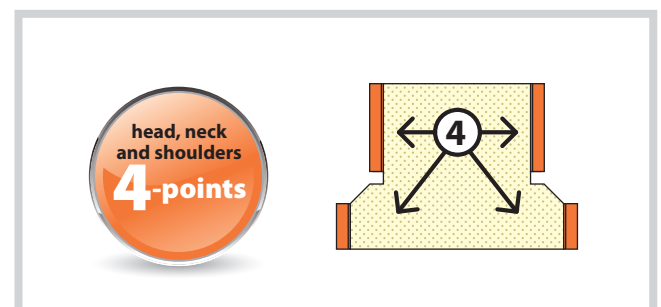
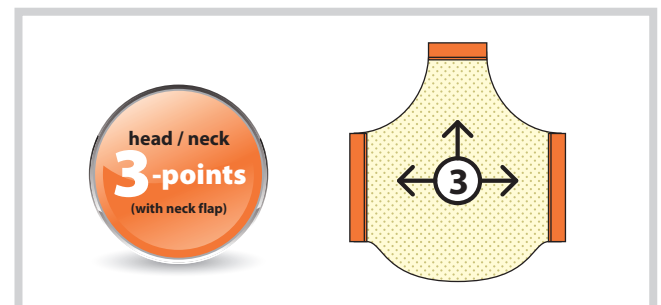
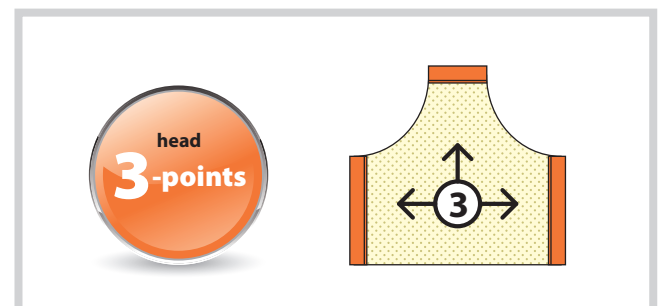
An extensive range of Orfit Efficast HP masks are available to meet specific patient requirements and your immobilization preferences.

- Head only
- Head and Neck (with and without 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
- Paediatric masks - All configurations for head, neck and shoulders.

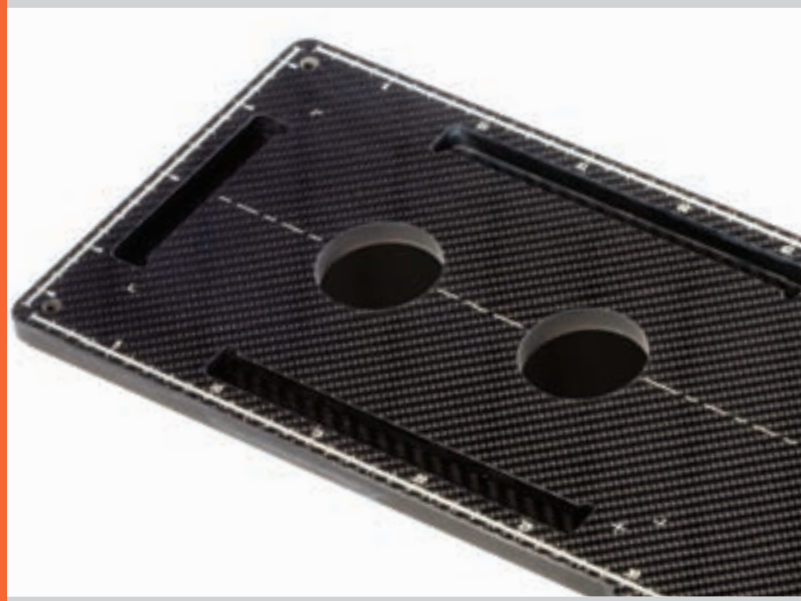
All Orfit Efficast HP masks are available with various combinations of prepunched cutouts for ease of use

- Nose only
- Nose and mouth
- Nose, eye, mouth

All Orfit masks have an antibacterial coating.



# RAYCAST® CARBON FIBRE LOW DENSITY HARDWARE FOR TREATMENT MACHINES



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 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.

## HIGH PRECISION HARDWARE FOR HEAD & NECK

### ORFIT HIGH PRECISION LOW DENSITY BASE PLATES AND TABLE TOP EXTENSIONS

Art. No.  
32110

High precision  
base plate in CFL

Head, neck  
and shoulders



## HIGH PRECISION HARDWARE FOR HEAD & NECK

### ORFIT HIGH PRECISION LOW DENSITY BASE PLATES AND TABLE TOP EXTENSIONS

**Art. No.  
INT-1**

Integra  
Head & Neck  
Couch Extension  
for Varian  
Exact™ Couch

HP Efficast masks only



**Art. No.  
32064**

Tiltable head  
base plate in CFL

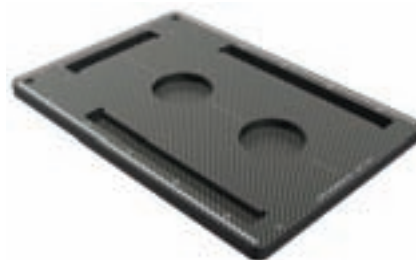
Head and neck



**Art. No.  
32130**

High precision  
small base plate  
in CFL

Head and neck



**Art. No.  
32150**

High precision  
long base plate  
in CFL  
for IMRT/IGRT

Head, neck and shoulders,  
treatments in overhang



## HIGH PRECISION HARDWARE FOR HEAD & NECK

### ORFIT HIGH PRECISION HIGH DENSITY BASE PLATES AND TABLE TOP EXTENSIONS

**Art. No.  
35751N**

High Precision  
base plate in HPL

Head, neck  
and shoulders



**Art. No.  
32117**

High Precision  
base plate  
for CYBERKNIFE  
in polycarbonate

Head, neck  
and shoulders



## HIGH PRECISION HARDWARE FOR HEAD & NECK

### ORFIT HIGH PRECISION HIGH DENSITY BASE PLATES AND TABLE TOP EXTENSIONS

**Art. No.  
35754/6N**

High precision  
small base plate  
in HPL

Head and neck



**Art. No.  
32113**

High Precision  
base plate  
for CYBERKNIFE  
in polycarbonate

Head and neck



**Art. No.  
32809**

High Precision  
Extension  
for TRILOGY  
in polycarbonate

Head and neck



# HEAD SUPPORTS, BLOCKS AND WEDGES

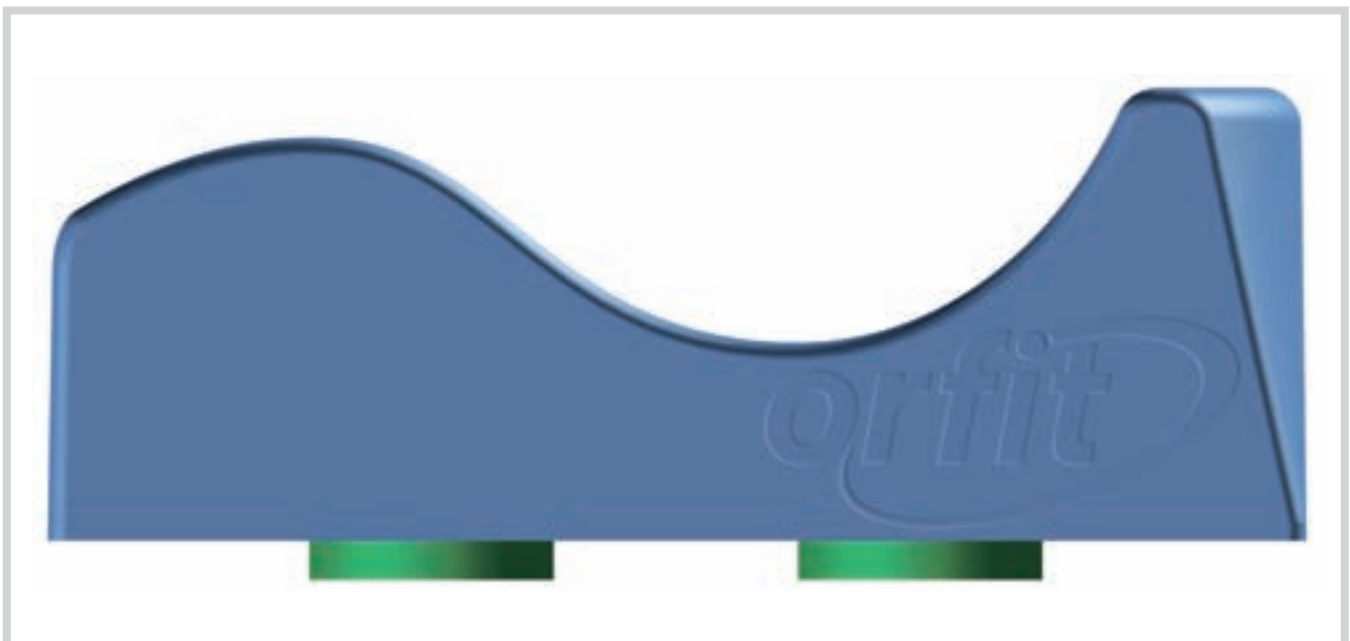


## HEAD SUPPORTS WITH CRANIAL STOP

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 Plate.


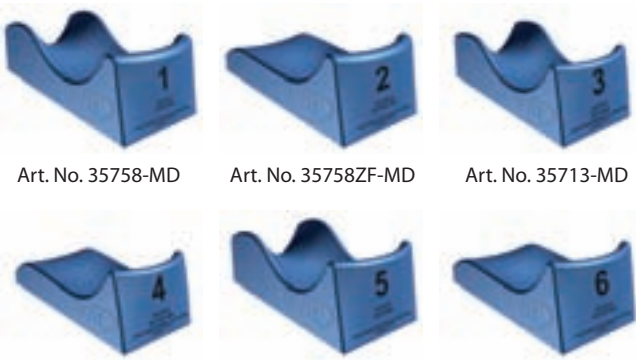



Several sets with differently shaped and sized supine and prone head supports are available to meet virtually every patient and treatment need.





## HIGH PRECISION HARDWARE FOR HEAD & NECK

### HEAD SUPPORTS

<p><b>Art. No. 32704 (set)</b></p>	<p>High precision Low density</p>	 <p>Art. No. 35755      Art. No. 35765      Art. No. 35753</p> <p>Art. No. 35753ZF      Art. No. 35752      Art. No. 35752ZF</p>
<p><b>Art. No. 32702-MD (set)</b></p>	<p>High precision Regular density</p>	 <p>Art. No. 35758-MD      Art. No. 35758ZF-MD      Art. No. 35713-MD</p> <p>Art. No. 35713ZF-MD      Art. No. 35714-MD      Art. No. 35714ZF-MD</p>
<p><b>Art. No. 32399-MD</b></p>	<p>Head support (Regular density) with lateral neck flaps for patients with a curved spine</p>	
<p><b>Art. No. 32380</b></p>	<p>Prone head support adjustable in size, movable chin cushion</p>	
<p><b>Art. No. 32393</b></p>	<p>Prone head support adjustable in size, movable forehead cushion</p>	

## POSITIONING WEDGES AND BLOCKS

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

Orfit Raycast High Precision 3D head supports with cranial stop, blocks and wedges are totally 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 HARDWARE FOR HEAD & NECK

### POSITIONING BLOCKS AND WEDGES

Art. No.  
32700  
(set)

#### Low density CFL



Art. No.  
32424

#### Low density CFL



Art. No.  
35754/8  
(set)

#### High density rigid PE



### ACCESSORIES

Art. No.  
32042

#### Shoulder positioning system



## EFFICAST HP ANTIBACTERIAL MASKS

### FOR HIGH PRECISION IMMOBILIZATION

<p>Art. No. 35763/2MA</p>	 <p>*</p>	<p>Art. No. 35760/EFF2MA</p>	 <p>*</p>
<p>Art. No. 35763/2MA/NH</p>	 <p>*</p>	<p>Art. No. 35760/EFF2MA/M</p>	 <p>*</p>
<p>Art. No. 35763/2MA/M</p>	 <p>*</p>	<p>Art. No. 35760/EFF2MA/EM</p>	 <p>*</p>
<p>Art. No. 35763/2MA/EM</p>	 <p>*</p>	<p>Art. No. 35779/2MA</p>	 <p>*</p>
<p>Art. No. 35763/2MA/G35</p>		<p>Art. No. 35779/2MA/M</p>	 <p>*</p>

## EFFICAST HP ANTIBACTERIAL MASKS

### FOR HIGH PRECISION IMMOBILIZATION

<p>Art. No. 35779/2MA/EM</p>	<p>*</p> 	<p>Art. No. 33700/2MA</p>	<p>*</p> 
<p>Art. No. 35764/2MA</p>	<p>*</p> 	<p>Art. No. 33700/2MA/NH</p>	
<p>Art. No. 35764/2MA/NH</p>		<p>Art. No. 33700/2MA/M</p>	<p>*</p> 
<p>Art. No. 35764/2MA/M</p>	<p>*</p> 	<p>Art. No. 33700/2MA/EM</p>	<p>*</p> 
<p>Art. No. 35764/2MA/EM</p>	<p>*</p> 	<p>These masks are available in 2 mm thickness with maxi perforation (Art. No. with extension /2MA)</p> <p>* exceptions: additional available thicknesses and perforation types:</p> <ul style="list-style-type: none"> <li>- 1.6 mm micro perforation (Art. No. with extension/16MI)</li> <li>- 2.0 mm maxi perforation (...)</li> </ul>	

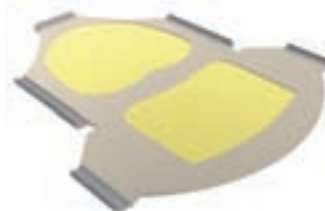
## EFFICAST HP ANTIBACTERIAL HYBRID MASKS

### HYBRID MASKS FOR EXTRA HIGH PRECISION IMMOBILIZATION

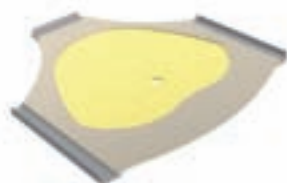
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33740/NH



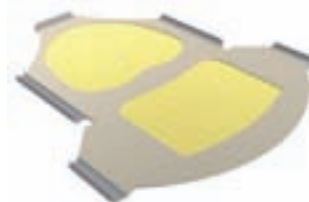
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33730/NH



Art. No.  
33740



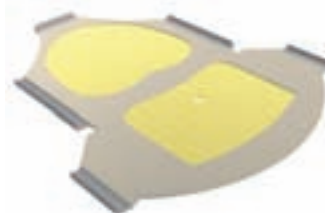
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Art. No.  
33737/NH



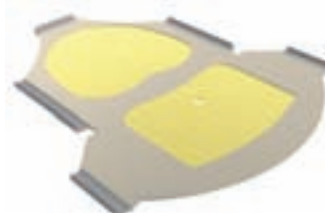
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Art. No.  
33737



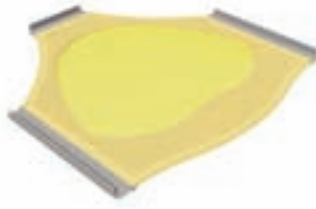
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33730/G17



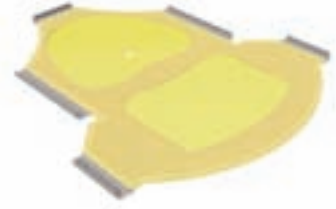
## NANOR HYBRID MASKS

### NANOR HYBRID MASKS

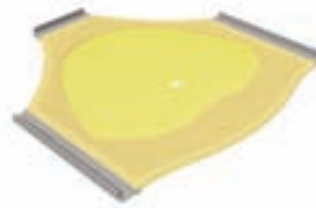
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33740/2MA/  
12MI+N/NH



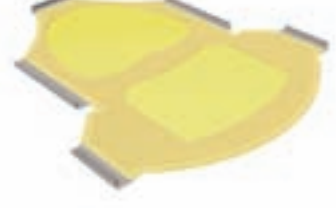
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12MI+N



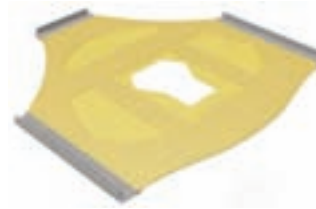
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12MI+N



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33730/16MI/  
12MI+N/NH



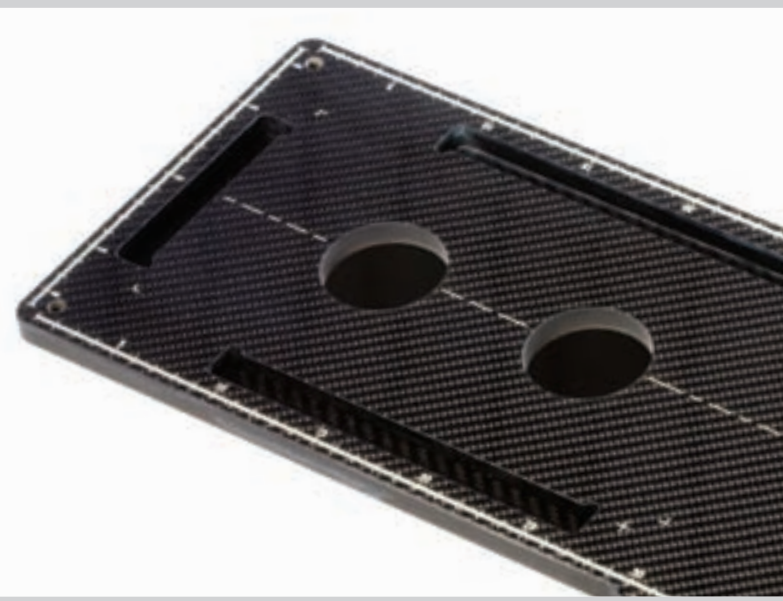
Art. No.  
33759/16MI/  
12MI+N



Art. No.  
33733/16MI/  
12MI+N



# HIGH PRECISION PAEDIATRIC CARBON FIBRE LOW DENSITY HARDWARE



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 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.

Art. No. 32111



High Precision  
Paediatric base plate in CFL  
Head, neck and shoulders

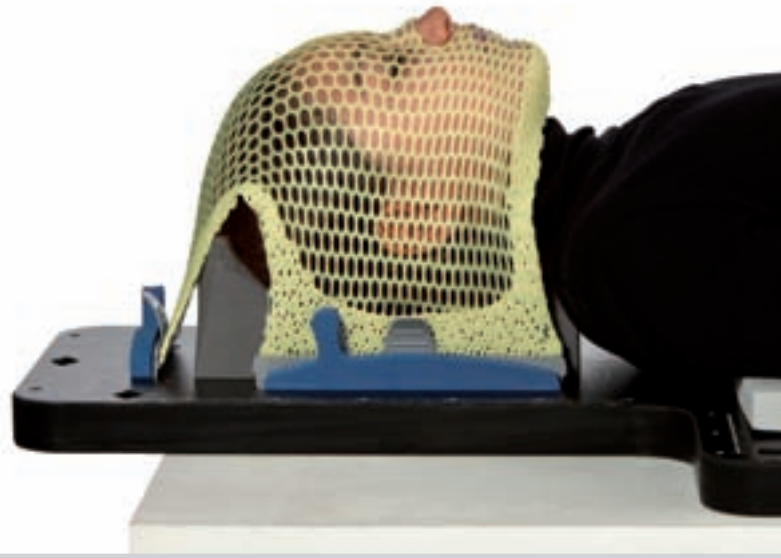
Art. No. 32150-PED



High Precision  
Paediatric-Adult long base plate in CFL  
Head, neck and shoulders



# PAEDIATRIC HEAD SUPPORTS, BLOCKS AND WEDGES

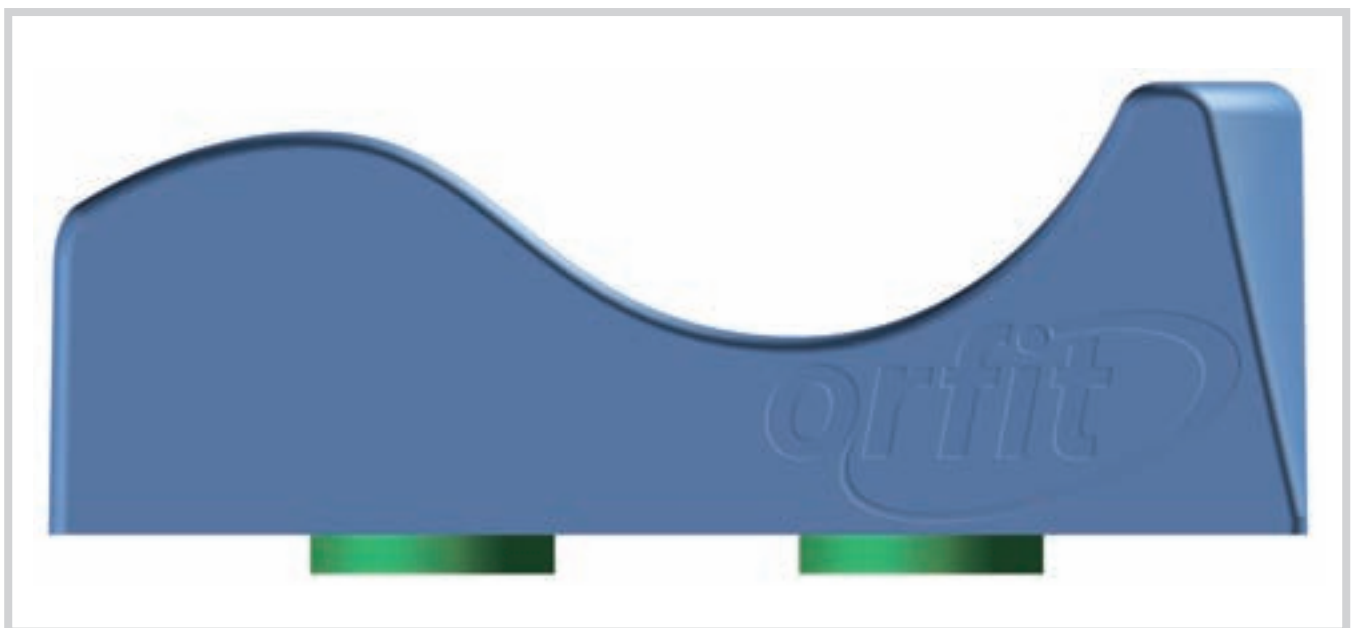


## HEAD SUPPORTS WITH CRANIAL STOP

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 Plate.

Several sets with differently shaped and sized supine and one prone head support are available to meet virtually every patient and treatment need.



## HIGH PRECISION HARDWARE FOR HEAD & NECK

### HEAD SUPPORTS

#### High precision Low density

**Art. No.  
35753**

Paediatric head support  
with lateral neck flaps  
in PE foam  
Age 6 to 12



**Art. No.  
35753ZF**

Paediatric head support  
without lateral neck flaps  
in PE foam  
Age 6 to 12



**Art. No.  
35753-80**

Paediatric head support  
with lateral neck flaps  
in PE foam - Extra-small size  
Age 0 to 5



**Art. No.  
35713-MD**

Paediatric head support  
with lateral neck flaps in PU foam  
Age 6 to 12



**Art. No.  
35713ZF-MD**

Paediatric head support  
without lateral neck flaps in PU foam  
Age 6 to 12



## POSITIONING WEDGES AND BLOCKS

Orfit Wedges and Blocks are used in conjunction with our Paediatric 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. You are able to comfortably position the patient in extreme flexion and extension.

Orfit Raycast Paediatric High Precision 3D head supports with cranial stop, blocks and wedges are totally compatible for use with all High Precision hardware.

All components index to each other for increased stability, reproducibility and precision of the immobilization.

Art. No. 35703



20 mm Carbon Fibre Block

Art. No. 35706



40 mm Carbon Fibre Block

Art. No. 35704



9° Carbon Fibre Wedge

Art. No. 32424



13,5° Carbon Fibre Wedge

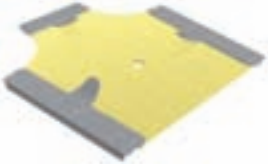

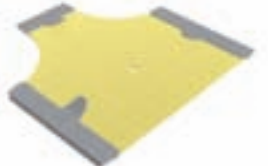

Art. No. 35707



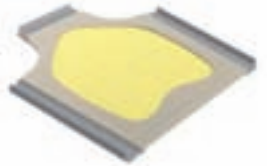

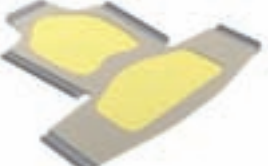
18° Carbon Fibre Wedge

## EFFICAST PAEDIATRIC HIGH PRECISION MASKS FOR HEAD, NECK AND SHOULDERS

### PAEDIATRIC PRE-CUTS - EFFICAST 2.0 MM MAXI

<p><b>Art. No.</b> <b>33710/2MA</b></p>	<p>Head supine Small 3-points Head Mask with nose hole</p>	
<p><b>Art. No.</b> <b>33710/2MA/NH</b></p>	<p>Head prone Small 3-points Head Mask without nose hole</p>	
<p><b>Art. No.</b> <b>33688/2MA</b></p>	<p>Head supine Large 3-points Head Mask with nose hole</p>	
<p><b>Art. No.</b> <b>33705/2MA</b></p>	<p>Head, Neck &amp; Shoulders supine 5-points Head, Neck &amp; Shoulders Mask with nose hole</p>	

### PAEDIATRIC HYBRID PRE-CUTS FOR HIGH PRECISION IMMOBILIZATION

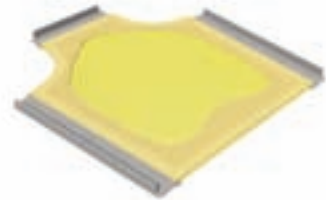
<p><b>Art. No.</b> <b>33748/NH</b></p>	<p>Paediatric Hybrid Mask - Small Material: Efficast 2 mm maxi + Orflight 1.6 mm micro 3-points Head Mask without nose hole</p>	
<p><b>Art. No.</b> <b>33749/NH</b></p>	<p>Paediatric Hybrid Mask - Medium Material: Efficast 2 mm maxi + Orflight 1.6 mm micro 3-points Head Mask without nose hole</p>	
<p><b>Art. No.</b> <b>33750/NH</b></p>	<p>Paediatric Hybrid Mask Material: Efficast 2 mm maxi + Orflight 1.6 mm micro 5-points Head, Neck &amp; Shoulders Mask without nose hole</p>	

## NANOR MASKS

### NANOR MASKS

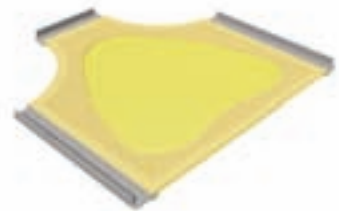
**Art. No.**  
**33748/2MA/**  
**12MI+N/NH**

Paediatric Hybrid Mask - Small  
Material: Efficast 2 mm maxi  
+ Nanor 1.2 mm micro  
+ Orflight 1.6 mm micro  
3-points Head Mask without nose hole



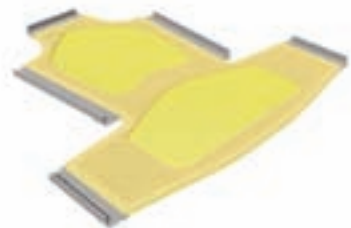
**Art. No.**  
**33749/2MA/**  
**12MI+N/NH**

Paediatric Hybrid Mask - Medium  
Material: Efficast 2 mm maxi  
+ Nanor 1.2 mm micro  
+ Orflight 1.6 mm micro  
3-points Head Mask without nose hole



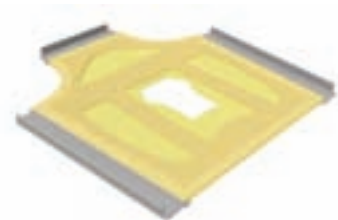
**Art. No.**  
**33750/2MA/**  
**12MI+N/NH**

Paediatric Hybrid Mask  
Material: Efficast 2 mm maxi  
+ Nanor 1.2 mm micro  
+ Orflight 1.6 mm micro  
5-points Head, Neck & Shoulders Mask  
without nose hole



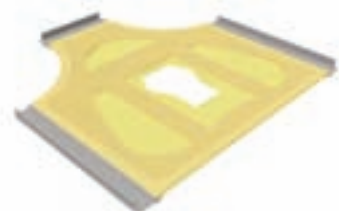
**Art. No.**  
**33782/16MI/**  
**12MI+N**

Paediatric Open Face Hybrid Mask - Small  
Material: Efficast 1.6 mm micro  
+ Nanor 1.2 mm micro  
+ Orflight 1.6 mm micro  
3-points Head Mask without nose hole

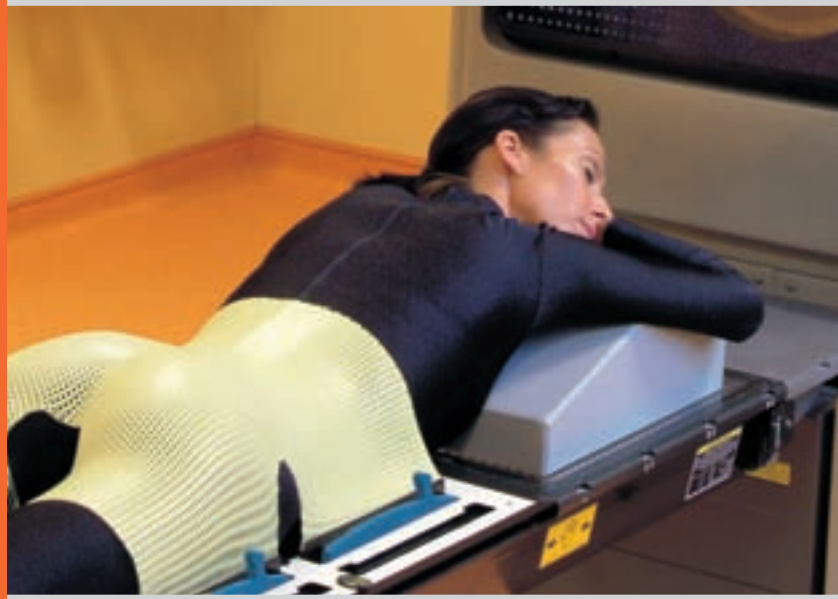


**Art. No.**  
**33783/16MI/**  
**12MI+N**

Paediatric Open Face Hybrid Mask - Medium  
Material: Efficast 1.6 mm micro  
+ Nanor 1.2 mm micro  
+ Orflight 1.6 mm micro  
3-points Head Mask without nose hole



# 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 (3) carefully designed and engineered components. When integrated they result in the most accurate, reproducible and comfortable patient immobilization and positioning system.

Raycast carbon fibre low density hardware.

- Pelvicast frameless thermoplastic masks.

- Easy to insert and remove "L"-shaped profiles as interface between mask and base plate.



Orfit Industries 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. 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.

1

## PRECISION/ACCURACY

### Limit patient movement

- Overall mask stability limits patient displacement.
- Low-stretch draping method provides greater contouring and rigidity.
- "L"-Profile technology secures more of the mask to the base plate.

2

## REPRODUCIBILITY

### Reduce daily shifts

- Well defined and indexable thermoplastic masks insures a consistent daily position.
- Unique central wedge prevents patient from sliding, ensuring a precise and reproducible immobilization. It also acts as a reference point for positioning patients prior to immobilization.

3

## PATIENT COMFORT

### Increase acceptance

- Antibacterial non-stick coating with soft surface feel.
- Thermoplastic with engineered limited shrinkage.
- Cooler activation temperature of 65°-70°C (149°-158°F)
- Silk feel mask coating with smooth perforations (or non perforated) results in a soft feeling on the patient's skin.

In addition to these fundamental advantages, the Pelvicast High Precision thermoplastics have other unique characteristics:

1. Thermoplastic with engineered limited shrinkage that results in a high but comfortable degree of patient immobilization.
2. Very stable mask limits movement and patient rotation.
3. 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.
4. Quick Release system allows fast and safe removal with high risk patients.
5. Innovative integrated "L" profiles enable you to quickly and easily secure the mask to the Pelvicast base plate for a precise immobilization.



# PELVICAST™ CARBON FIBRE LOW DENSITY HARDWARE FOR TREATMENT MACHINES



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

### HIGH PRECISION PELVIS AND ABDOMEN PATIENT IMMOBILIZATION SYSTEM

Art. No.  
32122

High Precision Carbon Fibre Base plate  
for non-indexed couches  
Material: Carbon Fibre sandwich construction  
with hard foam core  
Width: 54 cm





## PELVICAST

### HIGH PRECISION PELVIS AND ABDOMEN PATIENT IMMOBILIZATION SYSTEM

**Art. No.  
32124**

High Precision Carbon  
Fibre Base plate  
for Exact\* or iBeam\* couches  
Material: Carbon Fibre sandwich construction  
with hard foam core  
Width: 54 cm



**Art. No.  
32123**

High Density Base plate  
for simulation and CT  
with central panel for added patient comfort  
Material: High Pressure laminate  
Width: 54 cm



**Art. No.  
32037**

Leg separator  
Contains slots for 6-points Pelvicast masks.



**Art. No.  
32008**

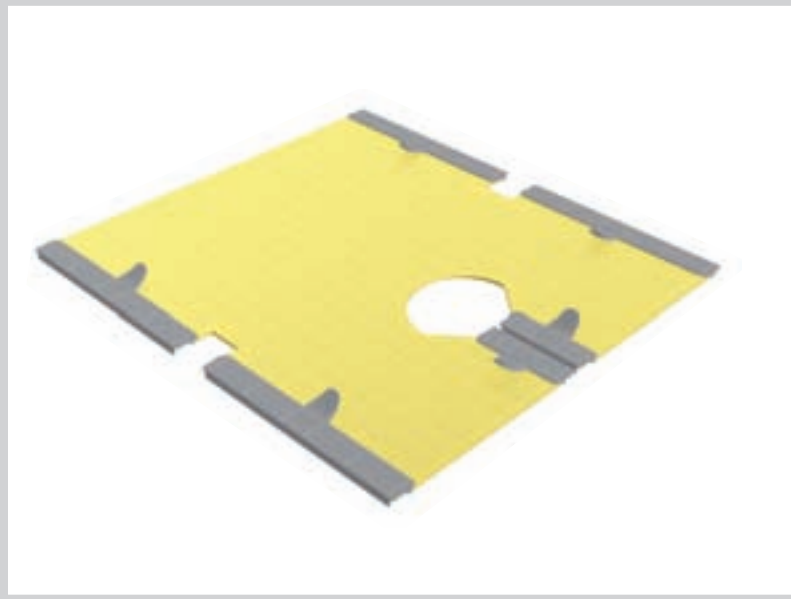
Low leg separator  
for less voluminous patients  
Contains slots for 6-points Pelvicast masks.



(\* Exact is a trademark of VARIAN Medical Systems Inc.)  
(\* iBEAM is a trademark of Medical Intelligence)

# PELVICAST™

## FRAMELESS THERMOPLASTIC MASKS FOR PELVIS AND ABDOMEN



Immobilizing a patient has never been easier, more precise and safer. All Pelvicast thermoplastic pre-cut masks have innovative integrated L-profiles that enable you to quickly and easily secure the mask to the base plate and to quickly remove it without effort.

Pelvicast masks are treated with a new non-stick coating that prevents sticking of the masks to skin, hair and hardware.

### Benefits of Pelvicast frameless masks

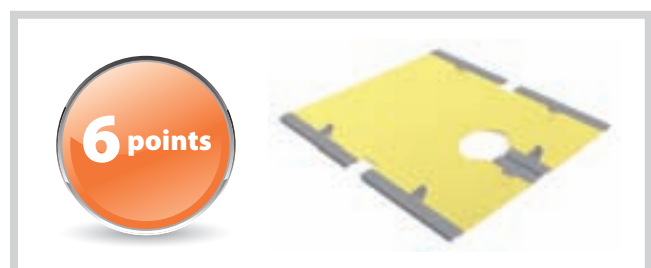
- Perfect fit around the patient's anatomy.
- High degree of patient comfort.
- Uniform low stretch and very low shrinkage factor give you total moulding control.
- Moulding at a low temperature (65°C-70°C) (149°-158°F) results in a comfortable surface feel for increased patient and user comfort.
- Your choice of masks with multiple independent moulding points for unsurpassed patient immobilization.
- Pelvicast masks come with 4 or 6 independent moulding points to meet the specific immobilization needs of the treatment.
- Pelvicast 4-point masks assure a precise immobilization of the pelvis region and 6-point masks enable you to immobilize the legs for a very high precision immobilization.
- Multiple independent moulding points allow for perfect contouring of the mask to the patient's anatomy. This results in the highest possible degree of immobilization and patient comfort.
- Our innovative Frameless masks ensure extra high precision of the immobilization.
- Pelvicast thermoplastic frameless masks include innovative integrated "L"-Profiles that enable you to quickly and easily secure the mask to the base plate.
- Easy to mould - Easy to use.

- 100% memory enables you to remould the mask to accommodate changes in the patient's anatomy that may occur during the course of treatment.

An extensive range of Pelvicast masks are available to meet specific patient requirements and your immobilization preferences, including perforated and non-perforated masks.



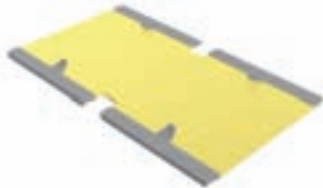
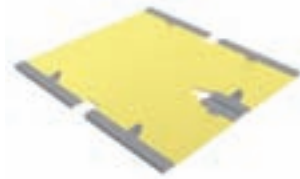
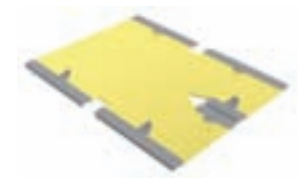
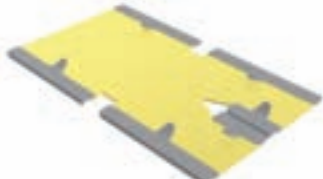
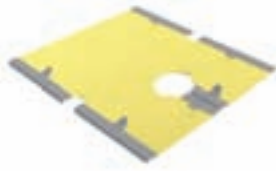
Pelvicast thermoplastic masks reduce the cranial-caudal and rotational movements of the patients. A specially designed Leg Separator can be inserted into the base plate after the patient has mounted the cushion, to fix a 6 points Pelvicast mask. This type of mask will increase the reproducibility and precision of the immobilization.

Pelvicast masks may be easily cut with standard scissors.



## PELVICAST

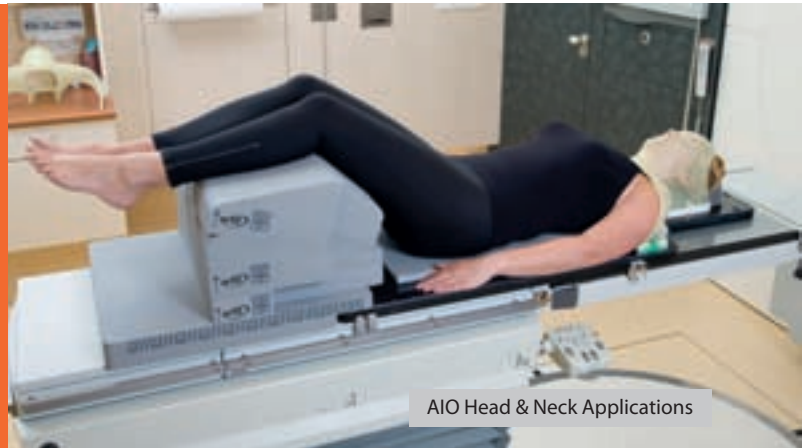
### HIGH PRECISION PELVIS AND ABDOMEN PATIENT IMMOBILIZATION SYSTEM

<p><b>Art. No.</b> <b>35784/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 4-points Pelvis Mask Large</p>	
<p><b>Art. No.</b> <b>35787/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 4-points Pelvis Mask Medium</p>	
<p><b>Art. No.</b> <b>35788/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 4-points Pelvis Mask Small</p>	
<p><b>Art. No.</b> <b>35712/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 6-points Pelvis Mask Large for use with leg separator.</p>	
<p><b>Art. No.</b> <b>35711/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 6-points Pelvis Mask Medium for use with leg separator.</p>	
<p><b>Art. No.</b> <b>35710/32MA</b></p>	<p>Application: Pelvic, prone &amp; supine. Material: Efficast 3.2 mm maxi Type: 6-points Pelvis Mask Small for use with leg separator.</p>	
<p><b>Art. No.</b> <b>35780/32MA</b></p>	<p>Application: Pelvic, supine. Material: Efficast 3.2 mm maxi Type: 6-points Pelvis Mask Large for use with leg separator.</p>	



# THE AIO SOLUTION<sup>®</sup>

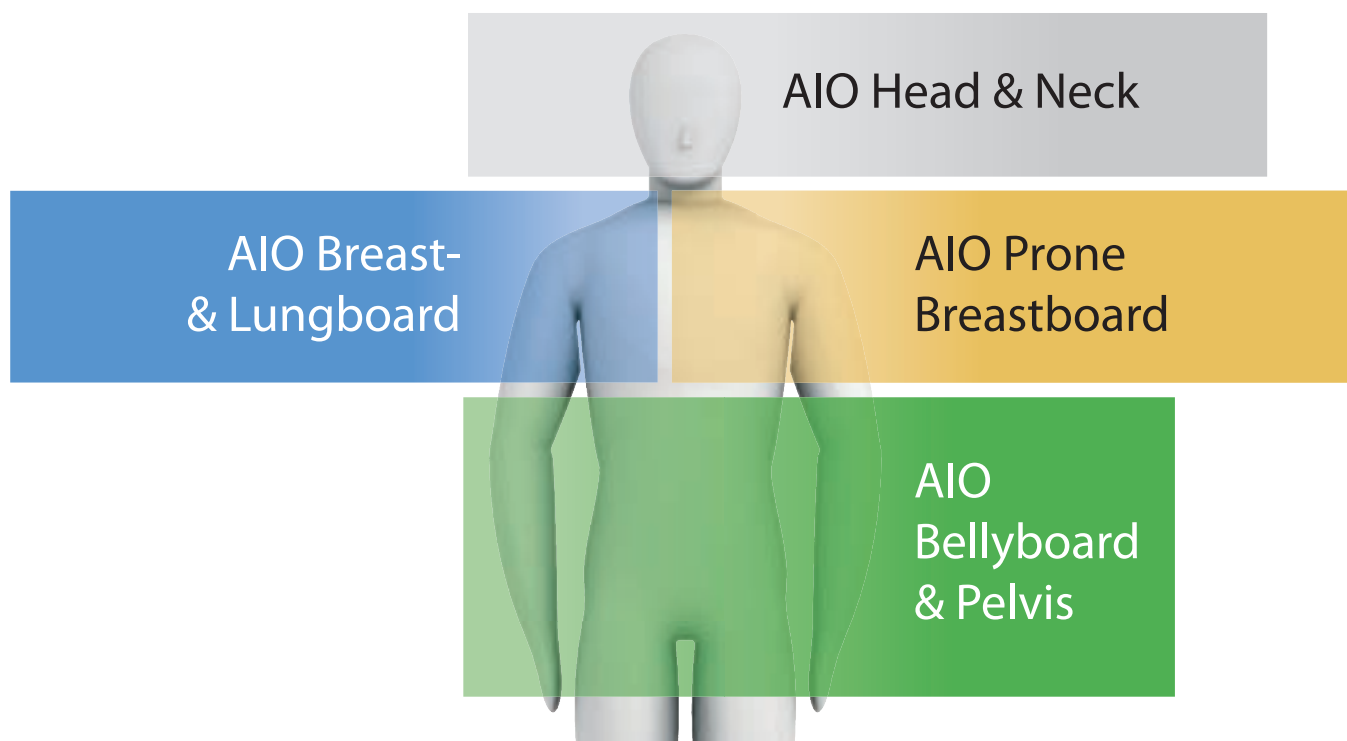
ALL-IN-ONE  
patient  
positioning  
system  
created by  
Dr. Kati Hideghéty





The reproducibility and stability of patient positioning is extremely important for a precise radiation therapy treatment. The position of the tumour in space is a dynamic element that is difficult to keep under control during the actual treatment delivery. Therefore, potential changes in the position of the patient should be limited to a minimum. THE AIO SOLUTION makes this possible by immobilizing patients in a precise, reproducible and yet comfortable way. THE AIO SOLUTION facilitates and refines treatments. 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.



Meeting the highest demands in radiation oncology...

- 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.

... THE AIO SOLUTION fulfils all these requirements.

THE AIO SOLUTION contains a cushion set for each anatomical region

- Brain, Head & 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 setup 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 and belly/pelvis cushions are in green colour.

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 & neck immobilization system, lungboard, breastboard, abdominal system and belly & pelvis board in one single product.



# 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.



Art. No. 29100

# HIGH PRECISION BASE PLATE IN CFL OR HPL



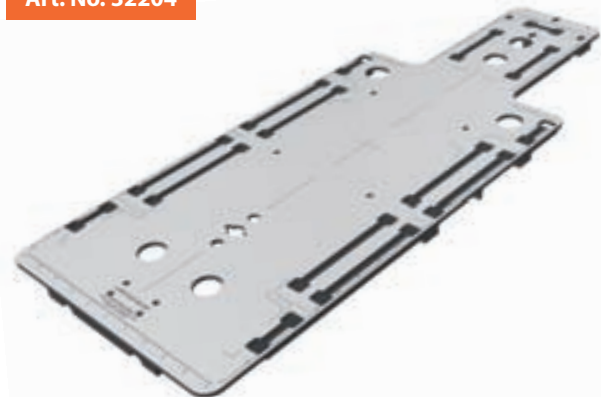
- “Long board” base plate for a reproducible positioning of all body regions.
- Made of a low density carbon fibre laminate sandwich structure with excellent dosimetric properties.
- This base plate remains on the treatment couch throughout the day, irrespective of the type of radiation treatment.
- It can be extended over the edge of the couch when using IMRT techniques for a 360° free gantry rotation space around the head & neck area.
- The plate is colour marked for easy and fast setup of 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 Raycast High-Precision Base Plates, assuring complete compatibility between all Orfit products.

Art. No. 32301



Carbon Fibre Laminate

Art. No. 32204



High Pressure Laminate



# HEAD SUPPORTS, BLOCKS AND WEDGES



All Raycast High Precision head supports, blocks and wedges fit in the AIO base plate.

- Increased reproducibility of the patient's position.
- Possibility to raise, flex or extend the position of the patient's head.
- Perfect compatibility with the other Raycast base plates.



# AIO KNEE & LEG POSITIONING SET



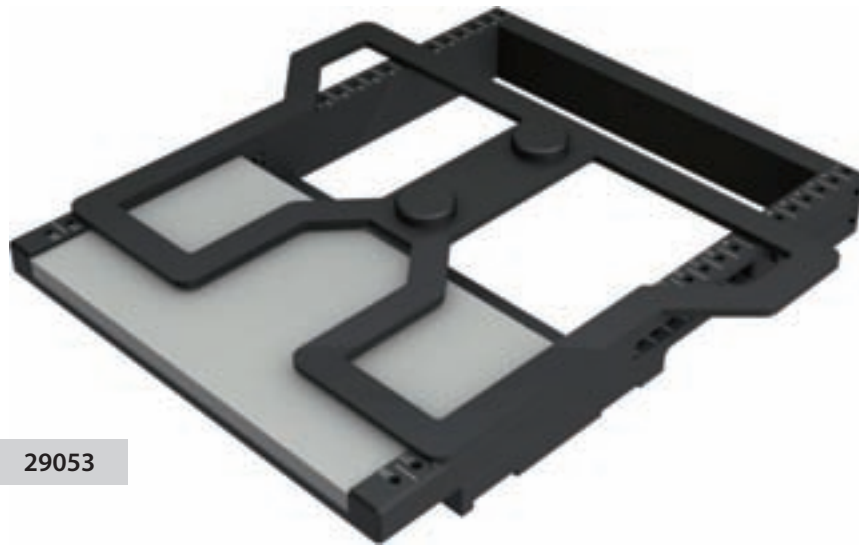
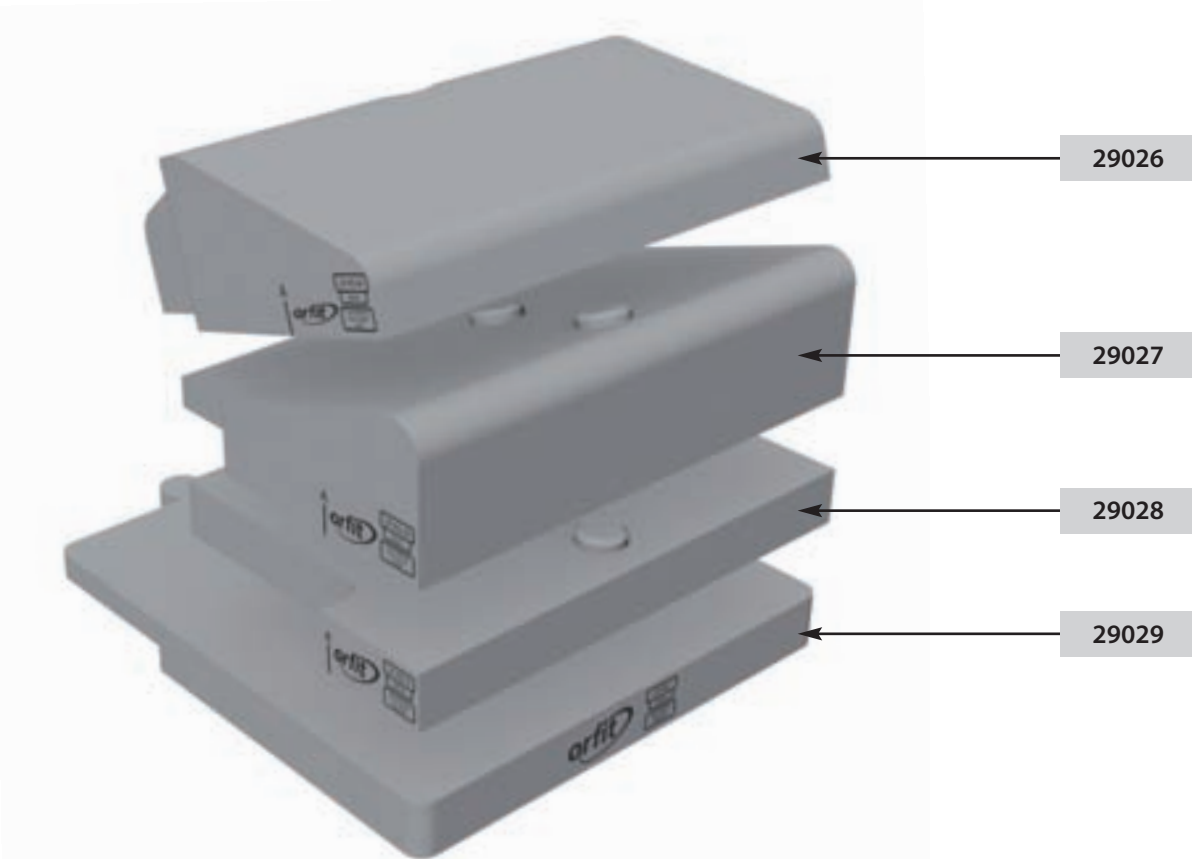
An exact and comfortable position of the patient's legs is obtained by using the indexable knee & leg positioning set.

- 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 millimeter scale and letter combinations.

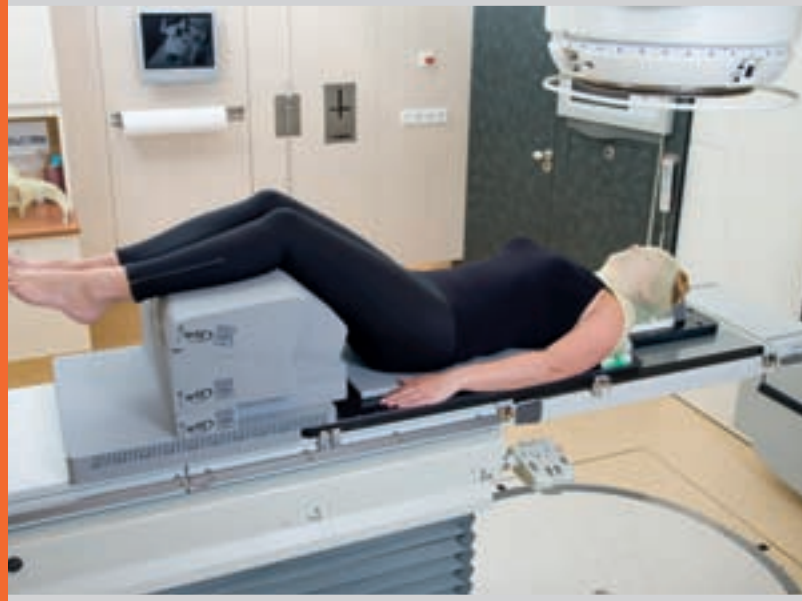




29053

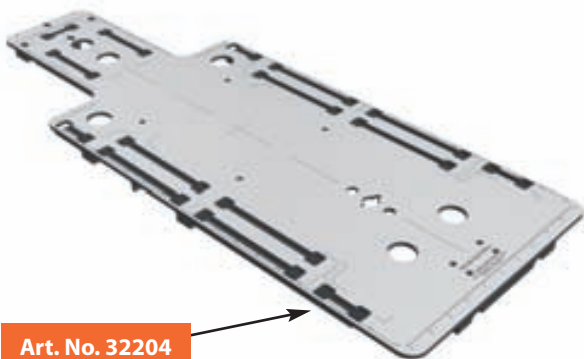
ART.	AIO ID	
29026	LP-KS-B	Basic Low
29027	LP-KS-W	Wedge
29028	LP-KS-E	Elevation
29029	LP-EC	Base Plate Extension
29053		AIO Indexable Knee Frame - Short

# AIO HEAD & NECK APPLICATIONS

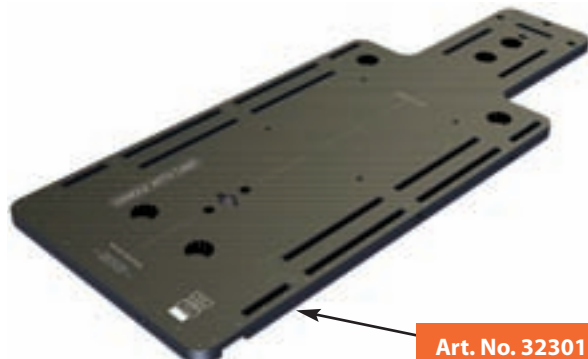


The main goal in the positioning of patients with head & neck tumours is a very precise and reproducible positioning and immobilization of the head and upper torso of the patient. To achieve this, a combination of the AIO hardware and Efficast thermoplastic masks provides an ideal solution.

- 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 and shoulders.



Art. No. 32204



Art. No. 32301

## AIO HEAD & NECK APPLICATIONS

### HEAD SUPPORTS

<p><b>Art. No. 32704 (set)</b></p>		<p><b>Art. No. 32702-MD (set)</b></p>	
<p><b>Art. No. 32399-MD</b></p>		<p><b>Art. No. 32393</b></p>	

### POSITIONING BLOCKS AND WEDGES

	Low density CFL		High density PE
<p><b>Art. No. 32700 (set)</b></p>		<p><b>Art. No. 35754/8 (set)</b></p>	
<p><b>Art. No. 32424</b></p>			



#### DESCRIPTION

ART.	AIO ID	
32301	P-LD	AIO Base Plate in Carbon Fibre Laminate
32204	P-HD	AIO Base Plate in High Pressure Laminate

# AIO BREAST- & LUNGBOARD SOLUTION

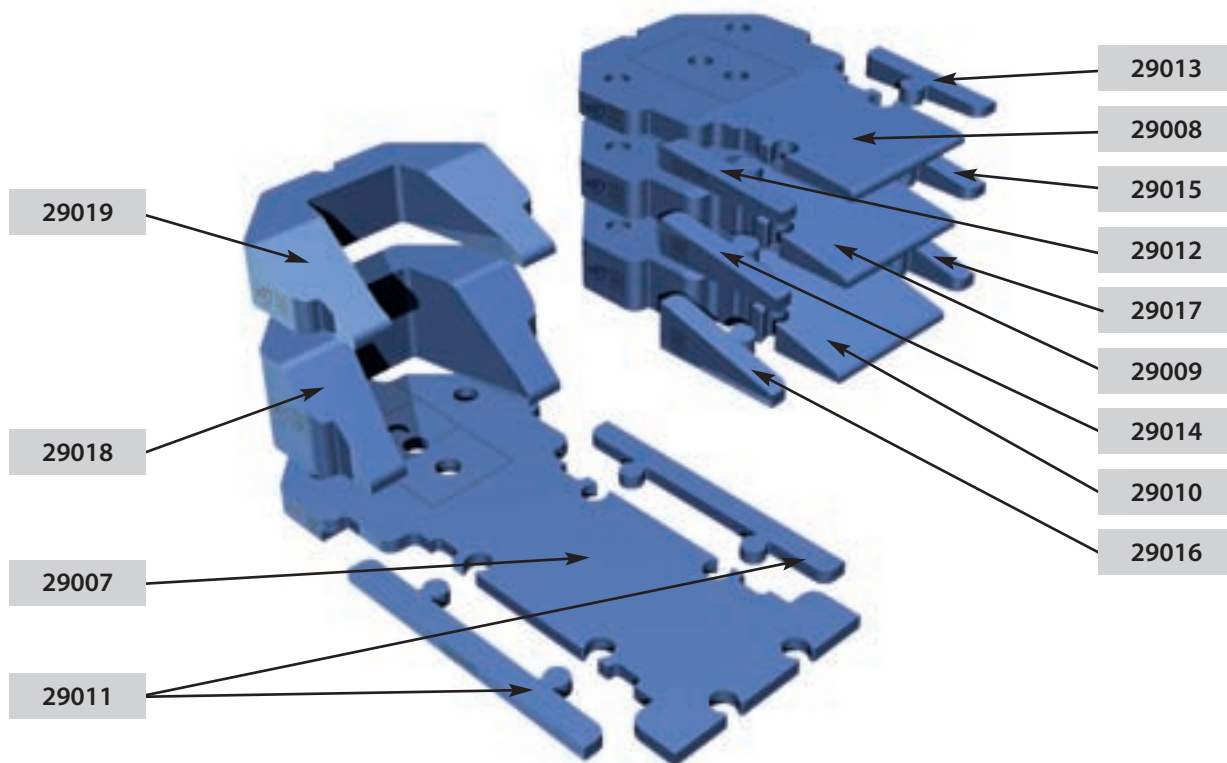


This cushion set is designed to achieve a comfortable and reproducible supine position of the patient. This position is primarily used for the treatment of malignancies in the thorax and the abdomen. The set consists of wedges with different angles to increase patient comfort, and arm rests to allow 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.

- 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 insert 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.



DESCRIPTION		
ART.	AIO ID	
29008	TA-WE-5	Wedge 5°
29012 (left) 29013 (right)	TA-LS-5	Lateral Supports - 5°
29009	TA-WE-10	Wedge 10°
29014 (left) 29015 (right)	TA-LS-10	Lateral Supports - 10°
29010	TA-WE-15	Wedge 15°
29016 (left) 29017 (right)	TA-LS-15	Lateral Supports - 15°
29019	TA-AR-L	Arm Rest - Low
29018	TA-AR-H	Arm Rest - High
29007	TA-WE-0	Wedge 0°
29011	TA-LS-0	Lateral Support - 0°



ACCESSORIES		
ART.	AIO ID	
32140	P-SE-LD	Secondary Base Plate in CFL
32015/9	AC-GP	Grip Pole System
32706-MD		Set Head supports (3) regular density

# AIO PRONE BREASTBOARD SOLUTION



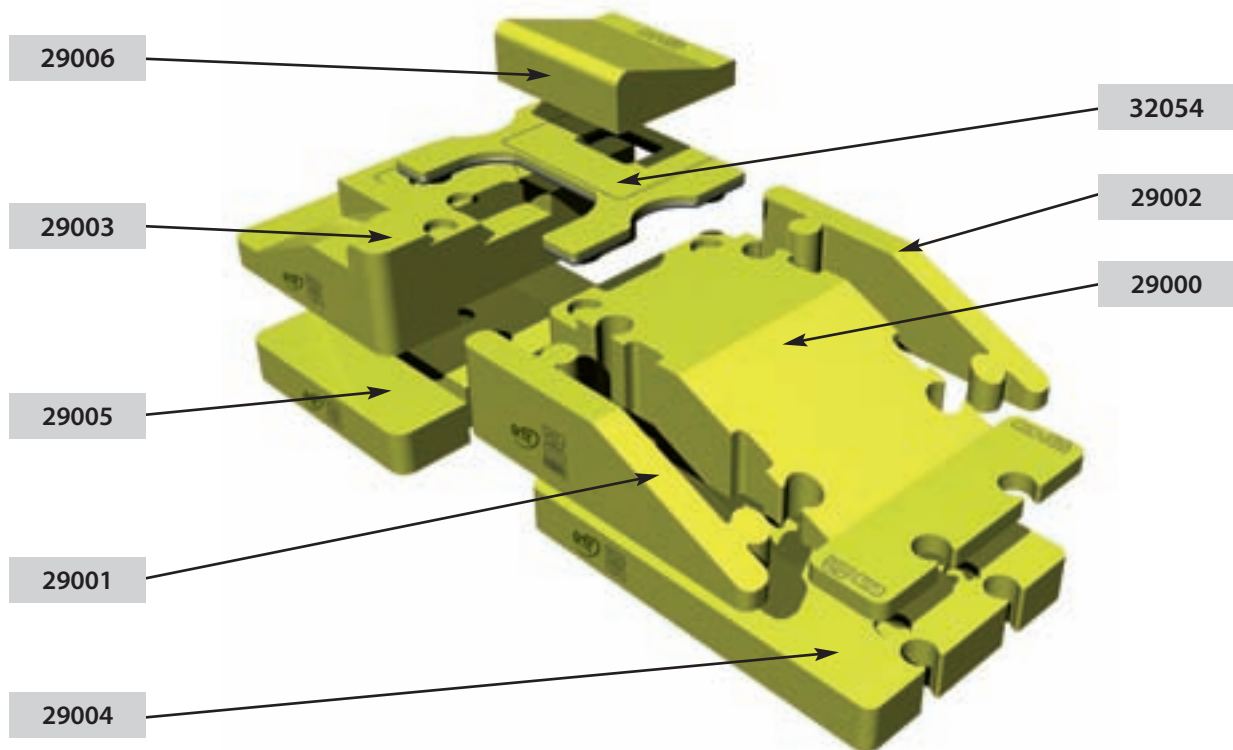
The yellow cushion set is designed to obtain a comfortable and reproducible patient position for the "prone breast" treatment technique. This technique keeps the ipsi-lateral breast away from the chest wall and the underlying tissues and reduces the lung, heart and contra-lateral breast tissue volume that is trapped in the treatment fields.

- 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.
- 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 and allows the use of Efficast masks for added precision.
- 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.





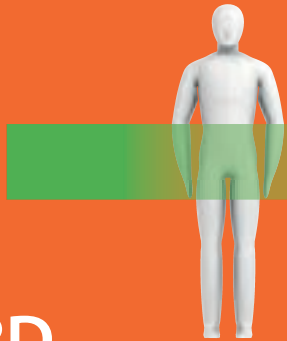
#### DESCRIPTION

ART.	AIO ID	DESCRIPTION
29006	BP-BW	Comfort Wedge for Contralateral Side
32054	BP-SC	Support Cushion for Contralateral Breast
29003	BP-HC-B	Cranial Cushion - Standard 15 cm Clearance
29000	BP-CC-B	Caudal Cushion - Standard 15 cm Clearance
29001 (left) 29002 (right)	BP-LS	Lateral Supports
29005	BP-HC-E	Cranial Cushion - Elevation to 23 cm Clearance
29004	BP-CC-E	Caudal Cushion - Elevation to 23 cm Clearance

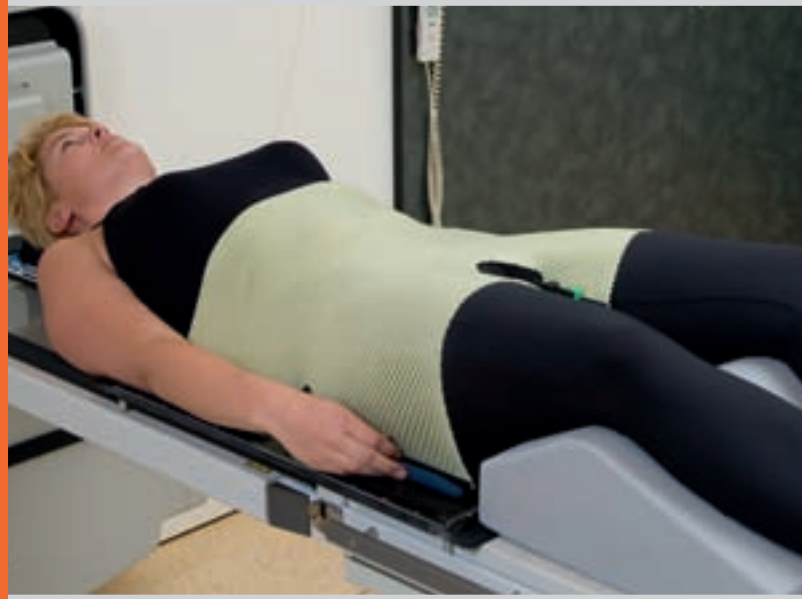


#### ACCESSORIES

ART.	AIO ID	DESCRIPTION
29050	HS-PR-A	Prone Head Support
29051	HS-PR-M	Comfort Prone Head Support
35754/1		PE Block 20 mm
35754/2		PE Block 40 mm

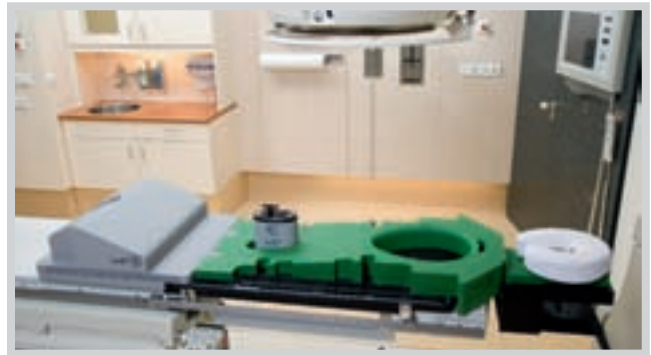


# AIO BELLYBOARD & PELVIC SOLUTION

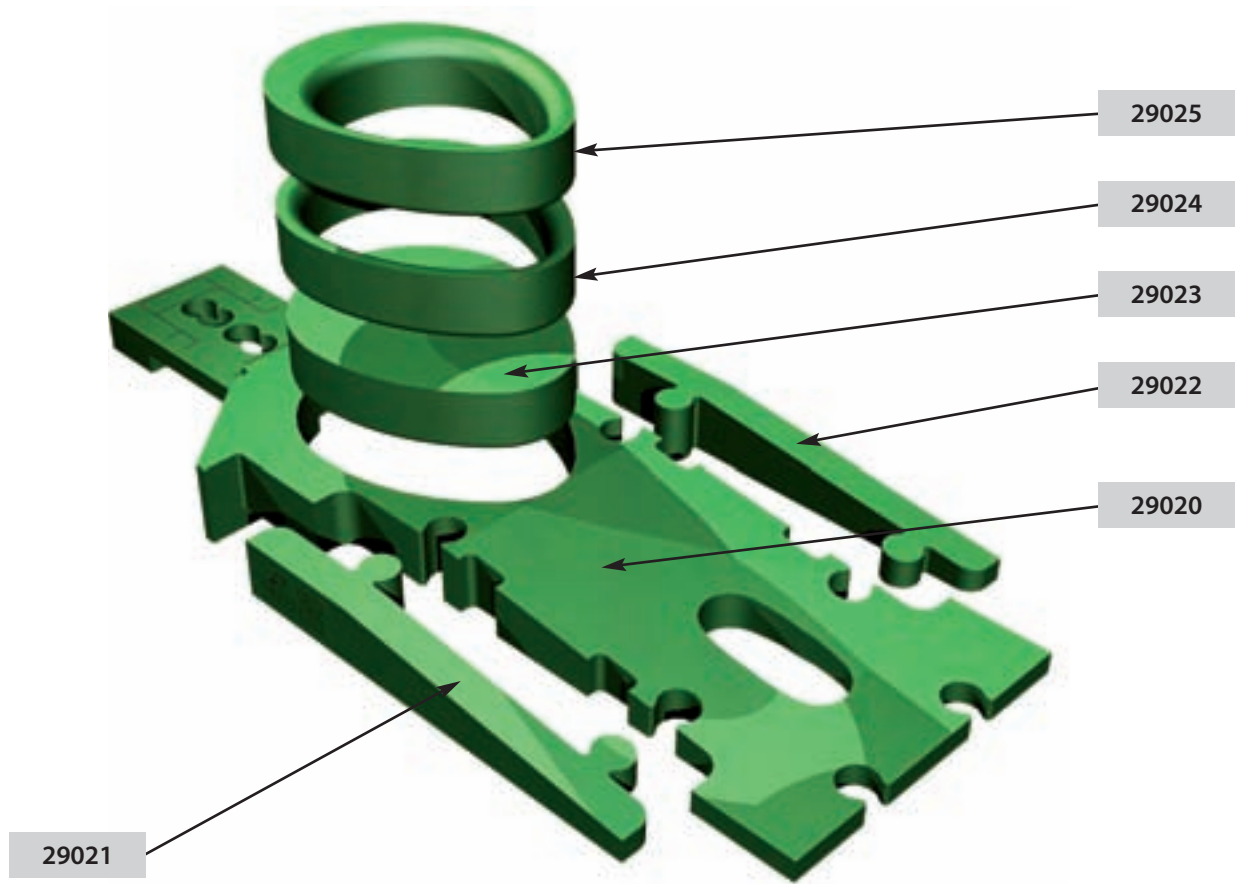


The purpose of the belly board is to keep the intestines of the patient out of the radiation fields for treating malignancies in the pelvis area. The opening in the cushion is meant to accommodate the belly of the patient and thereby effectively separate the small bowels from the area to be treated.

- 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 are placed under the base plate on a special supporting device.
- 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 and allows the use of Efficast masks for increased precision.



- Pelvicast thermoplastic masks are used to reduce the cranial-caudal 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.



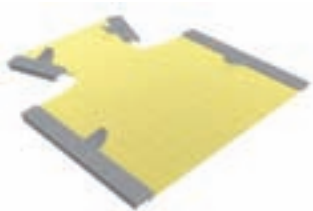
DESCRIPTION		
ART.	AIO ID	
29025	BB-BI-2	Insert - Small
29024	BB-BI-3	Insert - Large
29023	BB-BI-1	Insert - Full
29020	BB-BC	Belly & Pelvis Cushion
29021 (left) 29022 (right)	BB-LS	Belly & Pelvis Lateral Supports



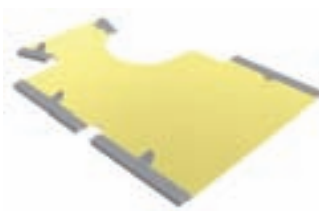
ACCESSORIES		
ART.	AIO ID	
32015/8	AC-BG	Hand Grips
32037	AC-LS	Leg Separator
29051	HS-PR-M	Comfort Prone Head Support
35754/1		PE Block 20 mm
35754/2		PE Block 40 mm
32706-MD		Set Head Supports (3) regular density

**THORAX HIGH PRECISION PRE-CUTS FOR THE AIO SOLUTION**

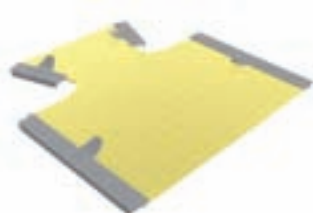
**Art. No.  
33715/2MA**



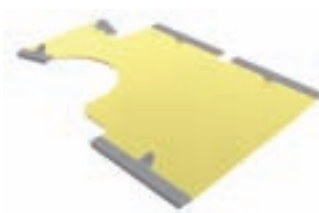
**Art. No.  
33723/32MA/L**



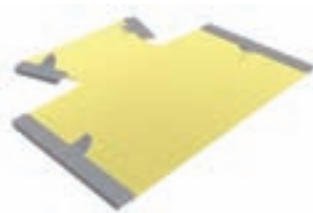
**Art. No.  
33716/2MA**



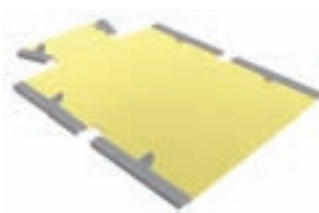
**Art. No.  
33723/32MA/R**



**Art. No.  
33717/2MA**



**Art. No.  
33724/32MA**



**NANOR**

**Art. No.  
33775/2MI/  
12MI+N**



# THE ORFIT VACUUM BAG CUSHION (VBC) SYSTEM



The Orfit Vacuum Bag Cushion (VBC) System has been designed specifically for use with the Orfit High Precision Patient Immobilization and Positioning Systems which use Efficast Frameless thermoplastic masks.

The combination of the Orfit VBC System and Efficast High Precision Frameless masks enables you to achieve a customized patient immobilization that is high precision, reproducible and comfortable for the patient.

## **Achieve a New Level of Precise, Reproducible Patient Positioning, Immobilization and Comfort**

The vacuum bags used with the Orfit VBC System have a very special thin fill of polystyrene spheres and are more narrow and longer in dimension than conventional vacuum bags. This ensures a much more intimate contour to the patient anatomy. The Orfit VBC System has been specifically designed for use in combination with the Orfit 3D Head Supports and Frameless masking high precision patient immobilization and positioning system. When used together

you are able to achieve an unsurpassed high precision immobilization that is reproducible and comfortable for the patient.

The Orfit VBC System is compatible for use with all Orfit High Precision Base Plates and Extensions for a wide range of immobilization/positioning applications.

The vacuum bags used with the Orfit VBC System are made from radio-translucent materials that will provide artifact free image clarity with minimal beam attenuation. The Orfit VBC's are made of a special coated nylon material that in combination with the thin fill helps to ensure intimate mould definition. The Orfit VBC's are easy to clean, reusable and are designed to withstand the rough handling conditions of a busy Radiation Oncology department.

The moulded ORFIT VBC System 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 VBC System is compatible for use with CT, MRI (when used with Orfit MRI compatible base plates), PET/CT, SPECT and Ultrasound imaging modalities.

The Orfit VBC System includes the following immobilization/positioning applications:

**Custom Individual Patient Head Support:**

The Small Size Orfit VBC (#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/shoulder area while providing unmatched patient comfort.

**Custom Thoracic**

**Immobilization/Positioning:**

The half-body Orfit VBC (#18056) is perfect when you need to create a customized thoracic immobilization. The half-body VBC is compatible for use with the Orfit AIO Solution Base Plate (#32301/NOLS).

**Custom Paediatric CNS**

**Immobilization/Positioning:**

The Paediatric full-body Orfit VBC (#18057) is designed specifically for CNS treatment. In addition to high precision, patient comfort is a hallmark of the Orfit VBC System.

A broad range of accessories are available to increase the versatility of the Orfit VBC System:

**VBC Indexing Bar: (#18059)**

You can easily index the VBC's directly to the couch top using a two-pin bar.

**Arm Rest Adapter Cushion: (#29036)**

Provides increased comfort and support by ensuring a smooth transition from thorax to shoulders and arms.

**Patient ID Labels: (#18065)**

That is easily attached to Orfit VBC's using a clip method.

**Vacuum Pump:**

For quick and easy use with Orfit VBC's.

## VACUUM BAGS

### CUSTOM TYPES

Individual head support (vacuum bag) 8"(w) x 18"(L)

(200 x 450 mm)



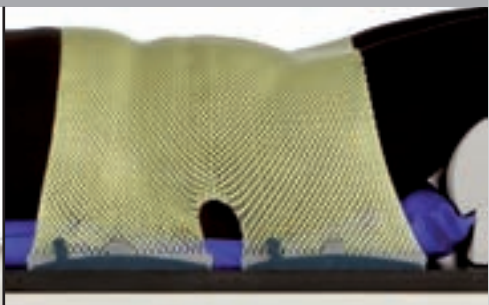
Art. No.  
18055

Individual  
head support  
(vacuum bag)  
200 x 450 mm  
8"(W) x 18"(L)



AIO Vacuum bag half body - Adult 19"(w) x 35,5"(L)

(480 x 900 mm)



Art. No.  
18056

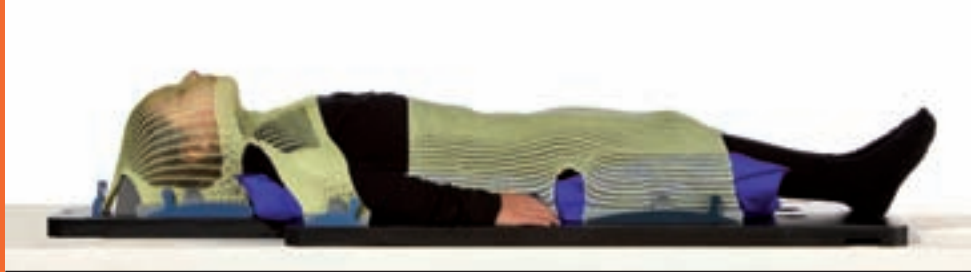
AIO Vacuum bag  
half body - Adult  
480 x 900 mm  
19"(W) x 35,5"(L)



## VACUUM BAGS

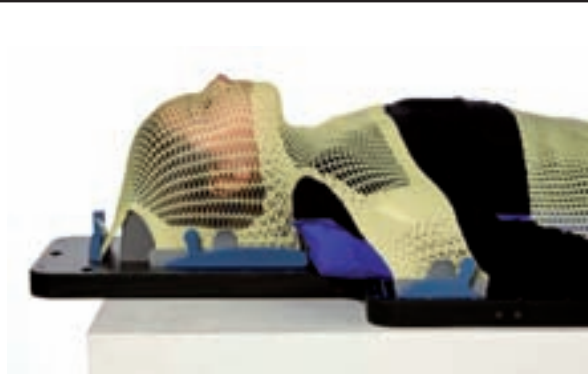
### CUSTOM TYPES

AIO Vacuum bag full body - Paediatric 13,5"(w) x 49"(L) (340 x 1240 mm)



Art. No.  
18057

AIO Vacuum bag  
full body - Paediatric  
340 x 1240 mm  
13,5"(W) x 49"(L)



### HOSES AND CONNECTORS

Art. No.  
18053

Hose connector for hose ID4



Art. No.  
18054

Transparent hose ID4  
( 2 meters)





## VACUUM BAGS

### PUMPS

**Art. No.  
18058**

Vacuum pump with hose,  
hose connector and cable



**Art. No.  
18076**

High Capacity  
vacuum pump with hose,  
hose connector and cable



### IDENTIFICATION

**Art. No.  
18065**

Patient ID tag for vacuum bag  
(Pack of 20 pieces)



**Art. No.  
18064**

Clip for ID tag  
(Pack of 5 pieces)



**VACUUM BAGS**

**INDEXING DEVICES**

**Art. No.  
18059**

Indexing bar



**Art. No.  
29036**

AIO Arm Rest adapter  
for use with vacuum bag



**SIDE PANELS FOR MOULDING**

**Art. No.  
32030**

Side panels  
for individual cushions (4 pcs.)



## DOSIMETRIC CHART

### THERMOPLASTIC MASK MATERIALS

Product reference	Measured values			
	Density (g/cm <sup>3</sup> )	Absorption Factor (AF%)		Skin build-up (mm H <sub>2</sub> O equiv.)
		6MV (%)	15MV (%)	
Orfit Classic 2 mm maxi	1.13	0.40	0.20	1.70
Efficast 1.6 mm micro	1.13	0.40	0.20	1.70
Efficast 2 mm maxi	1.13	0.40	0.20	1.70
Efficast 2 mm micro	1.13	0.45	0.25	2.20
Efficast 2.4 mm maxi	1.13	0.50	0.35	2.30
Efficast 3.2 mm maxi	1.13	0.70	0.45	2.90
U-Plast 1.6 mm micro	1.13	0.40	0.20	1.70
U-Plast 2 mm maxi	1.13	0.40	0.20	1.70
U-Plast 2.4 mm maxi	1.13	0.50	0.35	2.30
U-Plast 3.2 mm maxi	1.13	0.70	0.45	2.90
Hybrid (Efficast 2MA + Orflight 16MI)	NA	0.65	0.45	3.00
Hybrid (Efficast 16MI + Nanor 12MI+)	NA	0.54	0.34	2.10
HP L-Shaped profiles (ABS)	1.20	0.73	0.53	2.40

### POSITIONING HARDWARE

#### BASE PLATES

12 mm thick in Carbon Fibre Laminate 32110, 32130, 32140, 32111, 32122, 32124	NA	0.50	0.40	2.10
12 mm thick in High Pressure Laminate 35751N, 35754/6N, 32112, 32090	1.40	4.90	4.00	17
30 mm thick in Carbon Fibre Laminate 32301, 32150 (also the NOLS and PED versions)	NA	1.40	1.20	4
30 mm thick AIO in High Pressure Laminate 32204	1.40	4.90	4.00	17
12 mm thick in Polycarbonate 32113, 32117, 32097, 32098, 32809	1.20	4.20	3.40	14.60

#### HEAD SUPPORTS

Low Density range (in %/cm foam)	0.03	0.48	0.25	0.95
Standard Density range (in %/cm foam)	0.22	0.57	0.46	1.38

#### BLOCKS AND WEDGES

Blocks and wedges in Carbon Fibre Laminate	NA	0.60	0.50	2.20
Blocks and wedges in Polyethylene	0.95	4 - 17	3 - 13.5	

#### AIO CUSHIONS


















Per cm of foam	0.03	0.12	0.09	0.20
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#### VACUUM BAGS

10 mm thickness (deflated)	NA	0.20	0.30	0.90
100 mm thickness (deflated)	NA	2.90	2.10	9.00

## PATIENT SUPPORT CUSHIONS

### UNIQUE COMFORT CUSHIONS

<b>Art. No.</b> <b>32005/2-V2</b>		
<b>Art. No.</b> <b>32005/4-V2</b>		
<b>Art. No.</b> <b>32005/5-V2</b>		
<b>Art. No.</b> <b>32005/6-V2</b>		
<b>Art. No.</b> <b>32005/8-V2</b>		
<b>Art. No.</b> <b>32005/8A-V2</b>		
<b>Art. No.</b> <b>32005/10-V2</b>		
<b>Art. No.</b> <b>32005/11-V2</b>		
<b>Art. No.</b> <b>32005/14-V2</b>		
<b>Art. No.</b> <b>32005/15-V2</b>		
<b>Art. No.</b> <b>32006-V2</b>		

The cushions are made of Polyurethane foam which has a distributed weight of  $\pm 30$  kg per m<sup>3</sup>. The coating which is applied to the Polyurethane surface consists of two hypoallergenic components.

## FIXATION DEVICES

<p><b>Art. No. 32000</b></p>	<p>AIO Loxon for AIO and IMRT base plates (30 mm) on Exact* couches</p>	
<p><b>Art. No. 32001</b></p>	<p>Loxon for HP Head and Neck base plates 12 mm on Exact* couches</p>	
<p><b>Art. No. 32002</b></p>	<p>Loxon for Pelvicast base plates on Exact* couches</p>	
<p><b>Art. No. 32043</b></p>	<p>AIO fix for AIO and IMRT base plates (30 mm) on non-indexed couches MRI compatible</p>	
<p><b>Art. No. 32066</b></p>	<p>Prodigy Fix for 30 mm base plates MRI compatible</p>	
<p><b>Art. No. 32160</b></p>	<p>Pelvicast table fix (for base plate Ref. 32122 only) (4 pcs.)</p>	
<p><b>Art. No. 32126</b></p>	<p>Indexing pin set for iBeam* couches MRI compatible</p>	
<p><b>Art. No. 32181</b></p>	<p>AIO Loxon for AIO and IMRT base plates on Exact* couches</p>	

(\* Exact is a trademark of VARIAN Medical Systems Inc.)  
(\* iBEAM is a trademark of Medical Intelligence)

## FIXATION DEVICES

<p><b>Art. No.</b> <b>32151</b></p>	<p>iBeam* bridge bar</p>	
<p><b>Art. No.</b> <b>32154</b></p>	<p>2-pin Indexing bar for Exact* couches</p>	
<p><b>Art. No.</b> <b>32165</b></p>	<p>2-pin Indexing bar for 530 mm wide Prodigy couches MRI compatible</p>	
<p><b>Art. No.</b> <b>32166</b></p>	<p>2-pin Indexing bar for Exact* couches MRI compatible</p>	
<p><b>Art. No.</b> <b>32190</b></p>	<p>2- pin bar for Pinpoint couches</p>	
<p><b>Art. No.</b> <b>32191</b></p>	<p>2-pin indexing bar for iBeam* couches</p>	
<p><b>Art. No.</b> <b>35745</b></p>	<p>Table Fix for non-indexed couches</p>	

(\* Exact is a trademark of VARIAN Medical Systems Inc.)  
(\* iBEAM is a trademark of Medical Intelligence)

## FIXATION DEVICES

**Art. No.  
35747**

Adapter plate for use with  
Table Fix  
(12 mm base plate)



**Art. No.  
35747/6**

Adapter plate for use  
with 2-pin Indexing bar  
(12 mm base plate)



**Art. No.  
32063**

For use with 2-pin Indexing bar  
Adapter plate  
(12 mm base plate)  
MRI compatible



**Art. No.  
35747/4**

Adapter plate for use with  
2-pin Indexing bar  
(30 mm base plate)



**Art. No.  
35747/8**

For use with 2-pin Indexing bar  
Caudal adapter plate  
(30 mm base plate)  
MRI compatible





## Benefits of the Orfit High Precision Frameless Mask Patient Immobilization System

1. You will limit patient movement to less than 2 mm.
2. Orfit HP masks set up more accurately with reduced variability in positioning.
3. Patient comfort will be significantly elevated as a result of our thermoplastic that ensures uniform contraction.
4. You are able to intimately drape and contour the Orfit HP mask to the anatomy minimizing patient movement.
5. The use of special Head Supports ensures unmatched comfort, while the cranial backstop ensures reproducible patient positioning each and every time.
6. Orfit's positioning blocks and wedges offer the ability to custom-fit each individual patient.
7. The unique thermoplastic memory will enable you to make adjustments in the mask in the event the patient gains/loses weight. This ensures a precise and comfortable mask.
8. The fact that Orfit HP Thermoplastic Masks exhibit very little stretch helps to increase mask stability resulting in a superior immobilization.
9. The innovative L-profile connection to secure the Orfit Mask to the base plate gives increased mask stability (as compared to U-Shaped masks that are only secured in 4 corners or S-Shaped masks that are secured at spaced locations).
10. The Orfit HP Thermoplastic Masks exhibit little shrinkage resulting in increased comfort.
11. Orfit Frameless masks are engineered to become mouldable at a water bath temperature of 65°C-70°C (149°F-158°F), resulting in greater comfort for the patient and staff.

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E-mail: sales-us@orfit.com

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