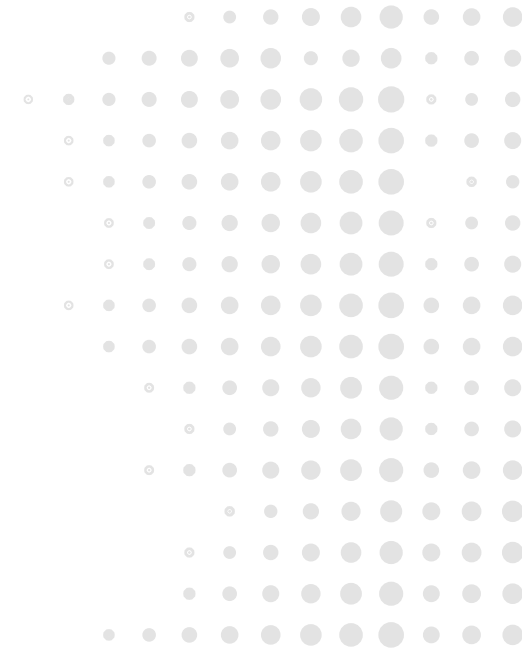


# HEAD, NECK AND SHOULDERS

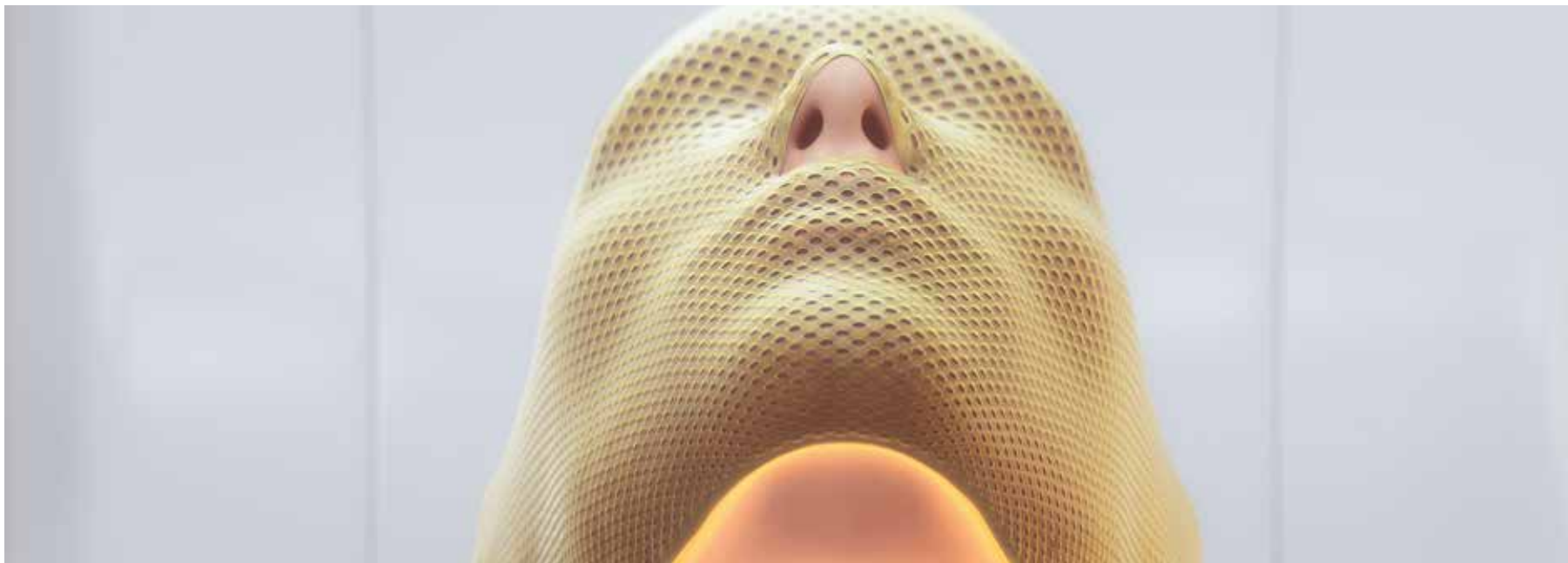


Today's imaging and target localization possibilities allow you to see how your treatment plan corresponds with the location of the tumor. Based on this, corrections for better sparing of healthy tissue can be made. These innovative techniques can only be efficient if you are sure that your patient does 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:



### 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.

Remold a mask when the patient's volume has increased or decreased.

Cool activation temperature of 65°-70°C (149°F - 158°F).

**The antibacterial coating helps in reducing the spread of harmful microbes in a hospital environment.**

**A unique combination of high precision immobilization, ease of molding, safety and patient comfort**

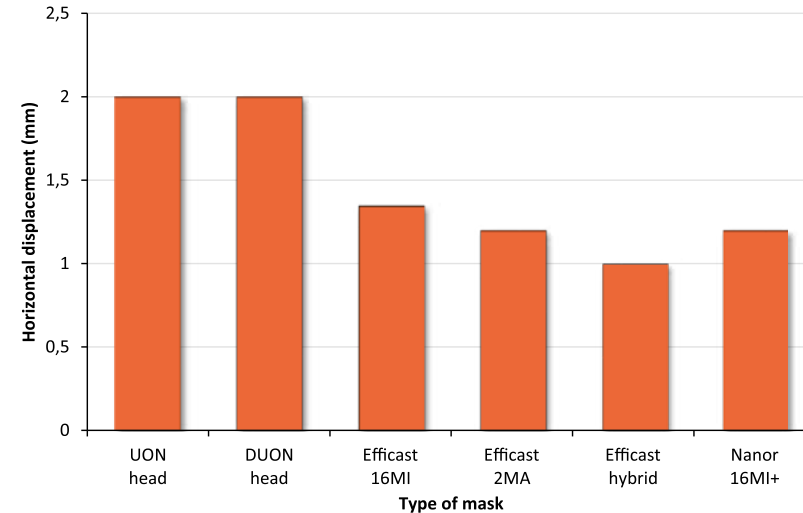
Our engineering and production capabilities with proprietary thermoplastic formulations result in the best mask materials available. Stretch and shrinkage properties are always the same and assure a reliable mask molding technique, resulting in a perfect fit around the patient's anatomy and a high degree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

Orfit 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**



Orfit Industries, Inge Jordaens - 2016

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

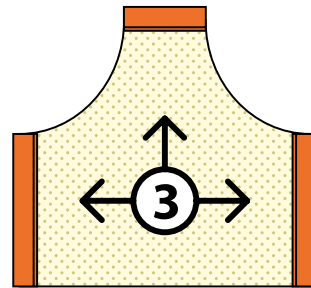
An extensive range of Orfit masks is available to meet specific patient requirements and your immobilization preferences.

- > 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
- > Pediatric masks - All configurations for head, neck and shoulders.

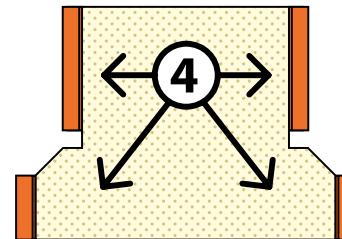
Orfit masks are available with various combinations of prepunched cutouts for ease of use.

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

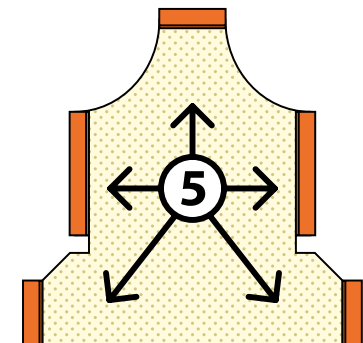
**All Orfit masks have an antibacterial, non-stick coating.**



head  
**3-points**



head, neck  
and shoulders  
**4-points**



head, neck  
and shoulders  
**5-points**  
(with cranial flap)

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

Linthout, N. (2006), Six dimensional analysis with daily stereoscopic x-ray imaging of intrafraction patient motion in head and neck treatments using five points fixation masks, *Med. Phys.*, 33 (2), 504-513

Woo, SY (2003), The evolution of quality assurance for intensity-modulated radiation therapy (IMRT): sequential tomotherapy, *Int J Radiat Oncol Biol Phys.*, 56 (1), 274-86

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



# HIGH PRECISION IMMOBILIZATION SYSTEMS

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

Thermoplastics with superior molding 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 remold 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.

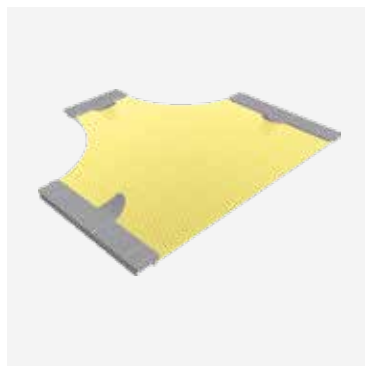
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# HIGH PRECISION ANTIBACTERIAL MASKS

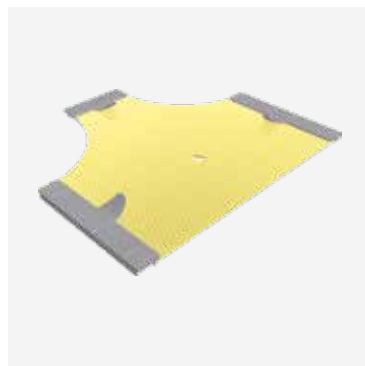
## SINGLE LAYER



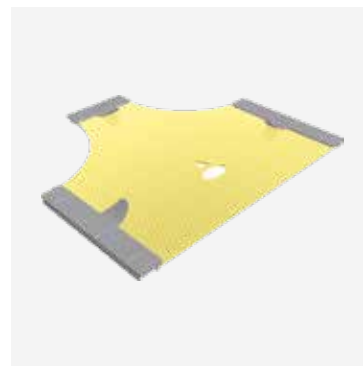
Art. N° 33776/2MA  
2-points chin mask



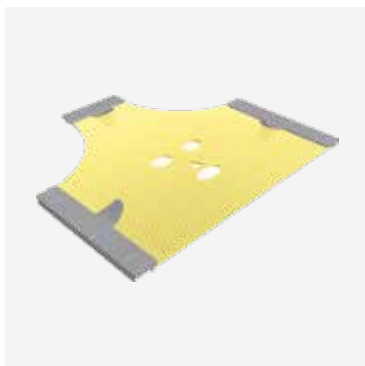
Art. N° 35763/2MA/NH\*  
3-points head mask



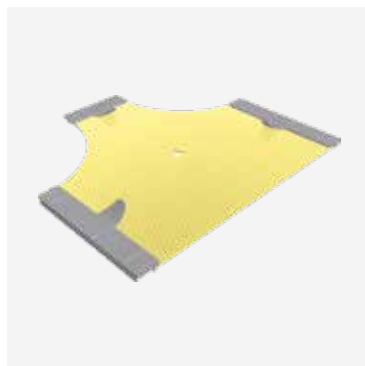
Art. N° 35763/2MA\*  
3-points head mask  
with nose hole



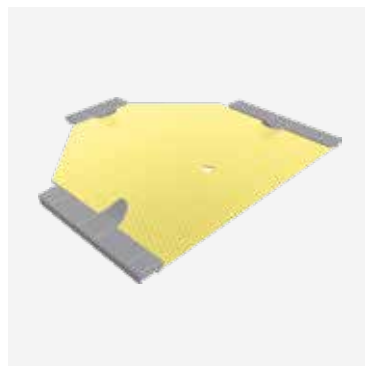
Art. N° 35763/2MA/M\*  
3-points head mask  
with nose and mouth hole



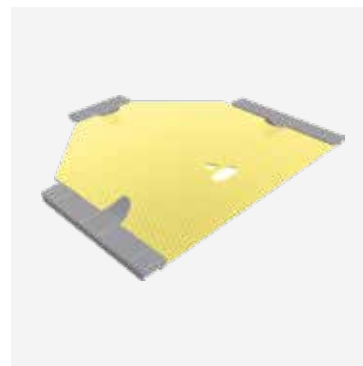
Art. N° 35763/2MA/EM\*  
3-points head mask  
with nose, eyes and mouth hole



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



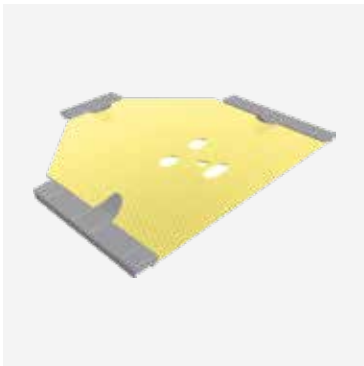
Art. N° 35760/EFF2MA\*  
3-points head mask  
with nose hole  
with extra cranial flaps



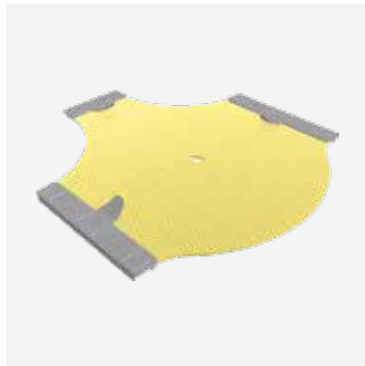
Art. N° 35760/EFF2MA/M\*  
3-points head mask  
with nose and mouth hole  
with extra cranial flaps

# HIGH PRECISION ANTIBACTERIAL MASKS

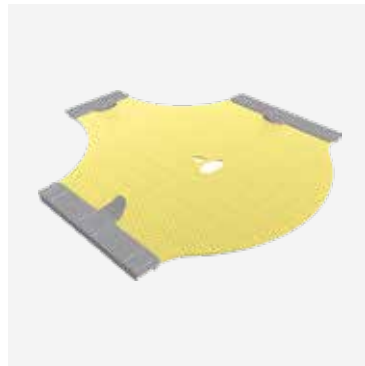
## SINGLE LAYER



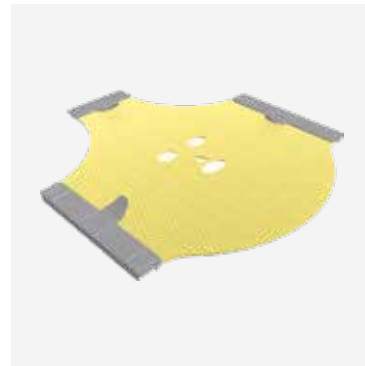
Art. N° 35760/EFF2MA/EM\*  
3-points head mask  
with nose, eyes and mouth hole  
with extra cranial flaps



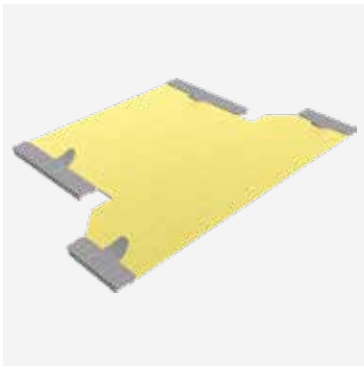
Art. N° 35779/2MA\*  
3-points head mask  
with nose hole  
with neck flap



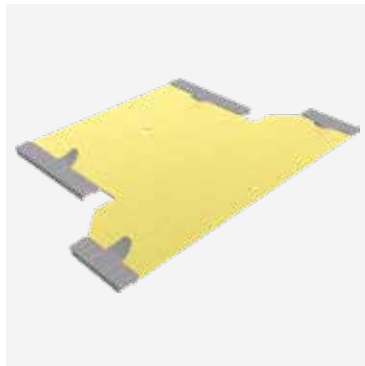
Art. N° 35779/2MA/M\*  
3-points head mask  
with nose and mouth hole  
with neck flap



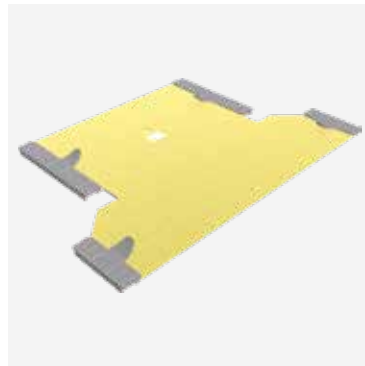
Art. N° 35779/2MA/EM\*  
3-points head mask  
with nose, eyes and mouth hole  
with neck flap



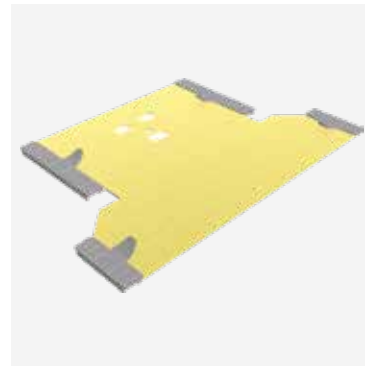
Art. N° 35764/2MA/NH  
4-points head, neck and shoulders mask



Art. N° 35764/2MA\*  
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

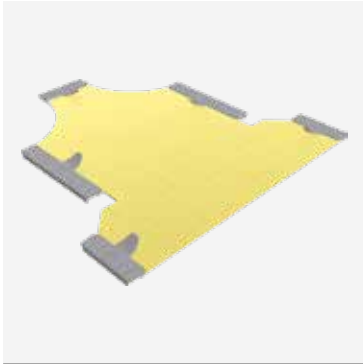


Art. N° 35764/2MA/EM\*  
4-points head, neck and shoulders mask  
with nose, eyes and mouth hole

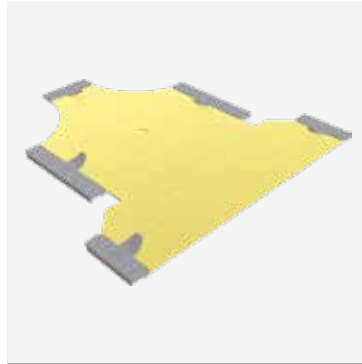


# HIGH PRECISION ANTIBACTERIAL MASKS

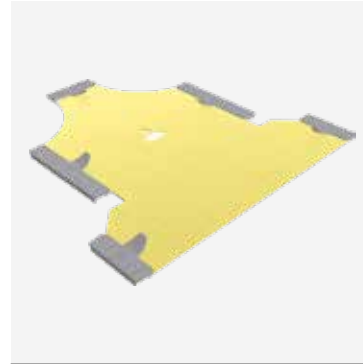
## SINGLE LAYER



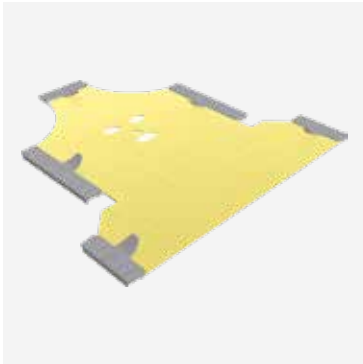
**Art. N° 33700/2MA/NH**  
5-points head, neck and shoulders mask



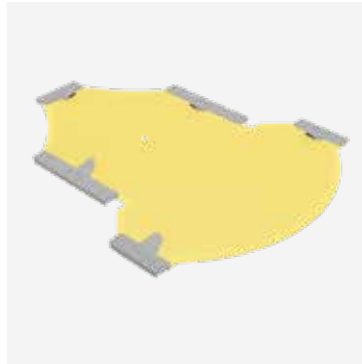
**Art. N° 33700/2MA\***  
5-points head, neck and shoulders mask  
with nose hole



**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

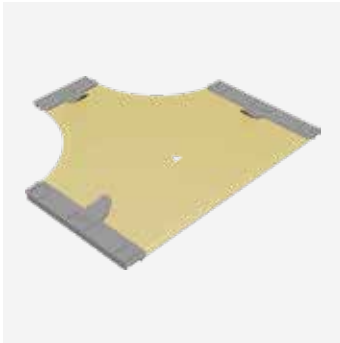


**Art. N° 33730/4**  
5-points head, neck and shoulders mask  
with nose hole  
large size

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]

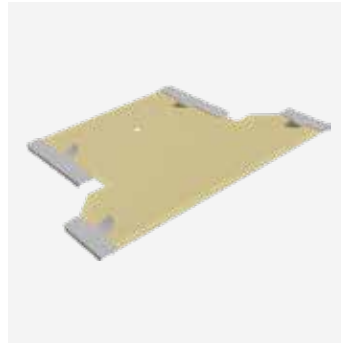
## HIGH PRECISION ANTIBACTERIAL MASKS

### NANOR® SINGLE LAYER



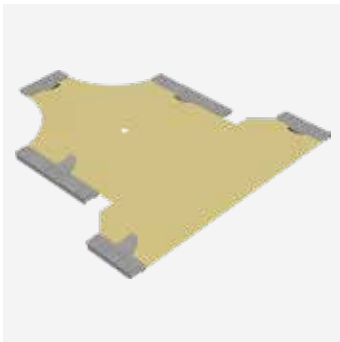
Art. N° 35763/16MI+N

3-points head mask  
with nose hole



Art. N° 35764/2MI+N

4-points head, neck and shoulders mask  
with nose hole



Art. N° 33700/2MI+N

5-points head, neck and shoulders mask  
with nose hole

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](http://www.orfit.com/nanor) for more information.

## 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 millimeter 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.

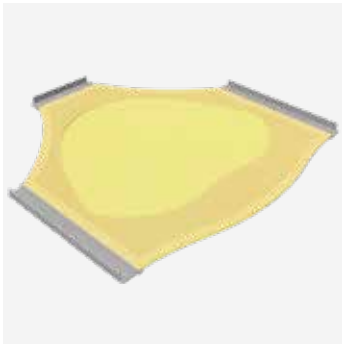
Even the largest and biggest-shouldered patients will be immobilized properly with these masks thanks to the reinforcement rim around the mask and the chin strap offering excellent control over the position of the patient's head.

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.

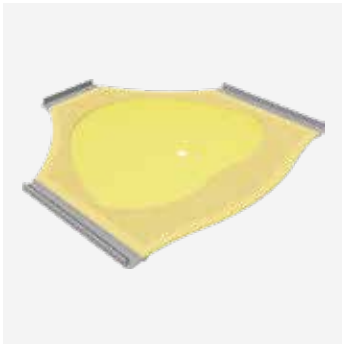
The range of hybrid pre-cuts consists of a 3-points head pre-cut and a 4-points and 5-points head, neck and shoulders pre-cut.

# HIGH PRECISION ANTIBACTERIAL MASKS

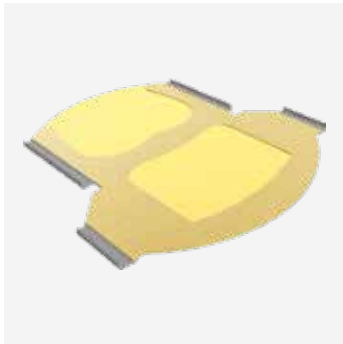
## HYBRID



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

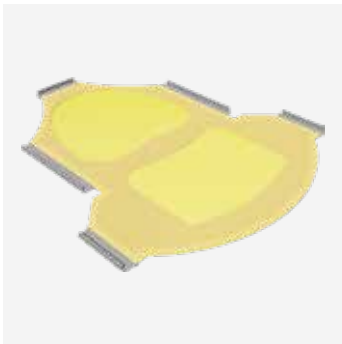


Art. N° 33740/2MA/12MI+N  
3-points hybrid head mask  
with nose hole

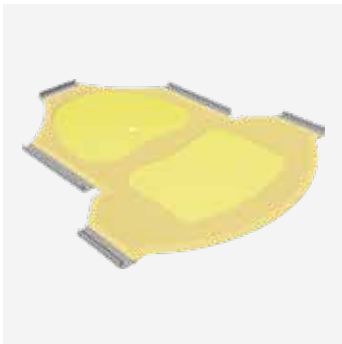


Art. N° 33737/2MA/12MI+N/NH  
4-points hybrid  
head, neck and shoulders mask

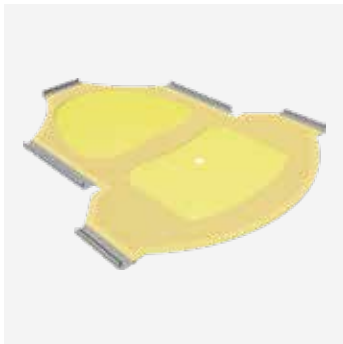
Nanor-reinforced  
thermoplastic masks  
are thinner and lighter  
with excellent stability  
and patient comfort.



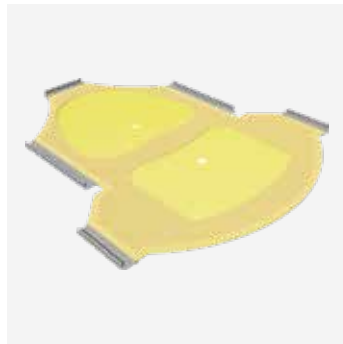
Art. N° 33730/2MA/12MI+N/NH  
5-points hybrid  
head, neck and shoulders mask



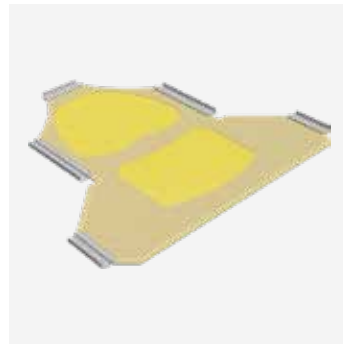
Art. N° 33730/2MA/12MI+N  
5-points hybrid  
head, neck and shoulders mask  
with nose hole



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



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



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

## HIGH PRECISION ANTIBACTERIAL MASKS

### 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 mold 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.

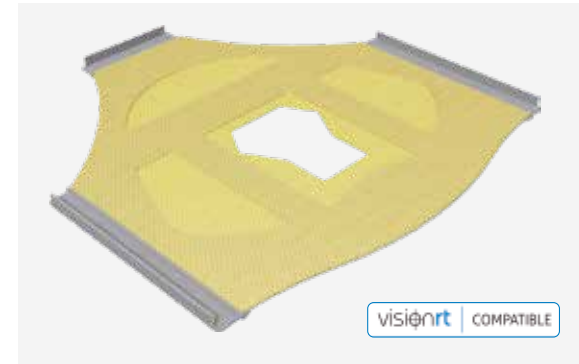


The Open Face Hybrid mask is reinforced with Nanor, an innovative thermoplastic material, based on high end nano-technology, that allows to make a mask that is thinner, lighter and yet stable.

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.

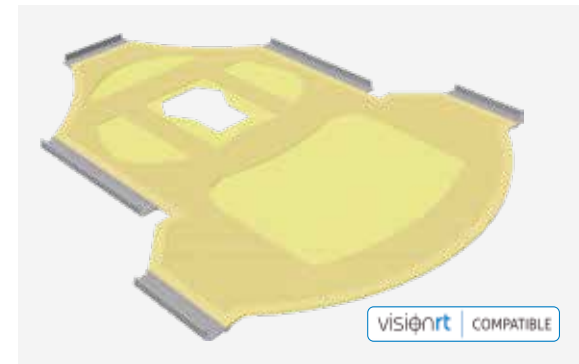
The 3-points Open Face Hybrid Head mask has been evaluated and confirmed by Vision RT as compatible for use with Vision RT products\*.

[www.visionrt.com](http://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

\* Vision RT compatible disclaimer available on [www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf](http://www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf)

# 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 fiber 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 setup 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



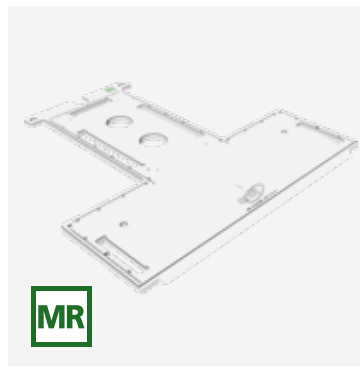
Art. N° 32130/MR

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° 32150/12

High precision long base plate in CFL for IMRT/IGRT  
Head, neck and shoulders

Treatments in overhang

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



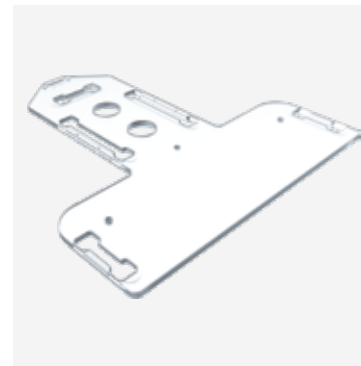
**Art. N° 32113**  
High precision base plate in polycarbonate  
for Cyberknife  
Head and neck



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



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



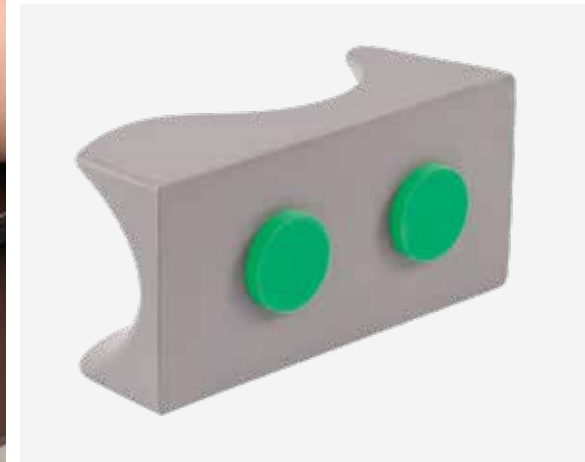
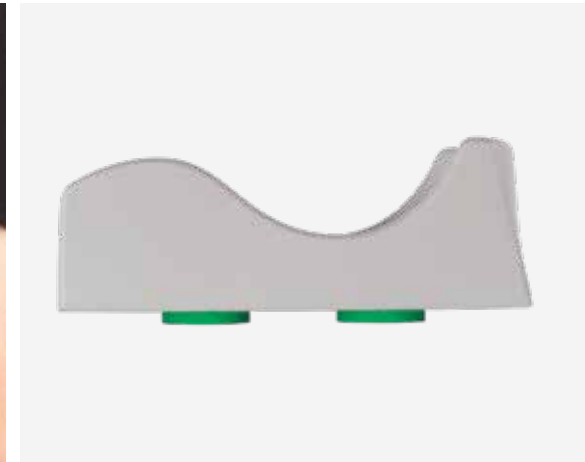
**Art. N° 32117**  
High precision base plate in polycarbonate  
for Cyberknife  
Head, neck and shoulders

# 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.





# HIGH PRECISION HEAD SUPPORTS

## LOW DENSITY

Art. N° 32704 (set)

Set of low density head supports (all sizes)



Art. N° 35755



Art. N° 35765



Art. N° 35753



Art. N° 35753ZF



Art. N° 35752



Art. N° 35752ZF

## REGULAR DENSITY

Art. N° 32702-MD (set)

Set of regular density head supports (all sizes)



Art. N° 35758-MD



Art. N° 35758ZF-MD



Art. N° 35713-MD



Art. N° 35713ZF-MD



Art. N° 35714-MD



Art. N° 35714ZF-MD

# HIGH PRECISION HEAD SUPPORTS

## REGULAR DENSITY - EXTRA SOFT

Art. N° 32433 (set)

Set of regular density head supports - Extra soft (all sizes)



Art. N° 32427



Art. N° 32428



Art. N° 32429



Art. N° 32430



Art. N° 32431



Art. N° 32432

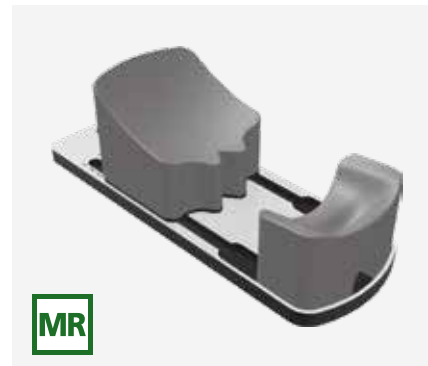
## REGULAR DENSITY



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 PERSONALIZED HEAD SUPPORT

Thermofit is an innovative thermoplastic solution for the creation of a personalized head support. Thermofit becomes soft and moldable 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 molded 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 PERSONALIZED HEAD SUPPORT

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 dosimetric properties with a low attenuation percentage.

Thermofit is odorless and has unlimited shelf life.



Art. N° 32390  
Thermofit  
13.5 x 30 cm



Art. N° 32391  
Thermofit  
23 x 30 cm



Art. N° 32392  
Thermofit  
30 x 35 cm



Art. N° 32405/10 (for Thermofit 32390 and 32391)  
Art. N° 32406/10 (for Thermofit 32392)  
Waterproof bags for Thermofit (package of 10 pieces)

# HIGH PRECISION BLOCKS AND WEDGES

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.

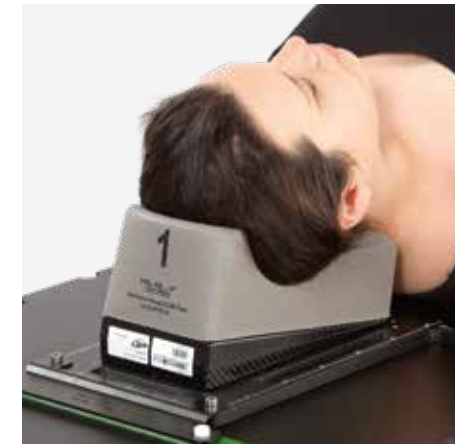
All components index to each other for increased stability, reproducibility and precision of the immobilization.



Art. N° 35703

20 mm

Carbon fiber block



Art. N° 35704

9°

Carbon fiber wedge



Art. N° 35706

40 mm

Carbon fiber block



Art. N° 35707

18°

Carbon fiber wedge

# HIGH PRECISION BLOCKS AND WEDGES

## LOW DENSITY



Art. N° 35703  
20 mm



Art. N° 35706  
40 mm



Art. N° 35704  
9°



Art. N° 32424  
13.5°



Art. N° 35707  
18°

Art. N° 32700 (set)

### Set of low density blocks and wedges - CFL

Art. N°	Description
35703	block 20 mm
35706	block 40 mm
35704	wedge 9°
35707	wedge 18°

Art. N° 32709 (set)

### Set of low density blocks and wedges - CFL

Art. N°	Description
35703	block 20 mm
35706	block 40 mm
35704	wedge 9°
32424	wedge 13.5°

Art. N° 32712 (set)

### Set of low density blocks and wedges - CFL

Art. N°	Description
35703	block 20 mm
35706	block 40 mm
35704	wedge 9°
35707	wedge 18°
32424	wedge 13.5°

# HIGH PRECISION BLOCKS AND WEDGES

## LOW DENSITY



Art. N° 35703/MR  
20 mm



Art. N° 35706/MR  
40 mm



Art. N° 35704/MR  
9°



Art. N° 32424/MR  
13.5°



Art. N° 35707/MR  
18°

Art. N° 32700/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°

Art. N° 32709/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°
32424/MR	wedge 13.5°

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°
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° 35754/5  
13.5°



Art. N° 35754/4  
18°

Art. N° 35754/8 (set)

### Set of high density blocks and wedges - rigid PE



Art. N°	Description
35754/1	block 20 mm
35754/2	block 40 mm
35754/3	wedge 9°
35754/4	wedge 18°
32424/MR	wedge 13.5°

Art. N° 35754/9 (set)

### Set of high density blocks and wedges - rigid PE



Art. N°	Description
35754/1	block 20 mm
35754/2	block 40 mm
35754/3	wedge 9°
35754/5	wedge 13.5°

Art. N° 35754/11 (set)

### Set of high density blocks and wedges - rigid PE



Art. N°	Description
35754/1	block 20 mm
35754/2	block 40 mm
35754/3	wedge 9°
35754/5	wedge 13.5°
35754/4	wedge 18°



# HIGH PRECISION ACCESSORIES

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.



Art. N° 32107  
Arm strap

Another option for the arms is the Shoulder Positioning System, which allows pulling down the shoulders of the patient.

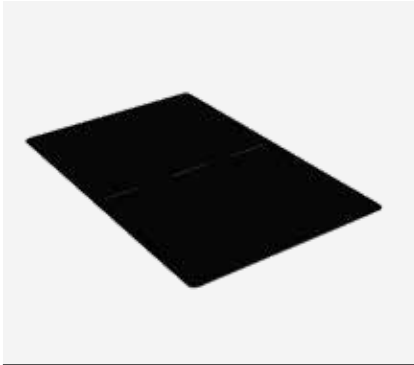
This is helpful when molding a 5-points head, neck and shoulders mask.



Art. N° 32042  
Shoulder positioning system



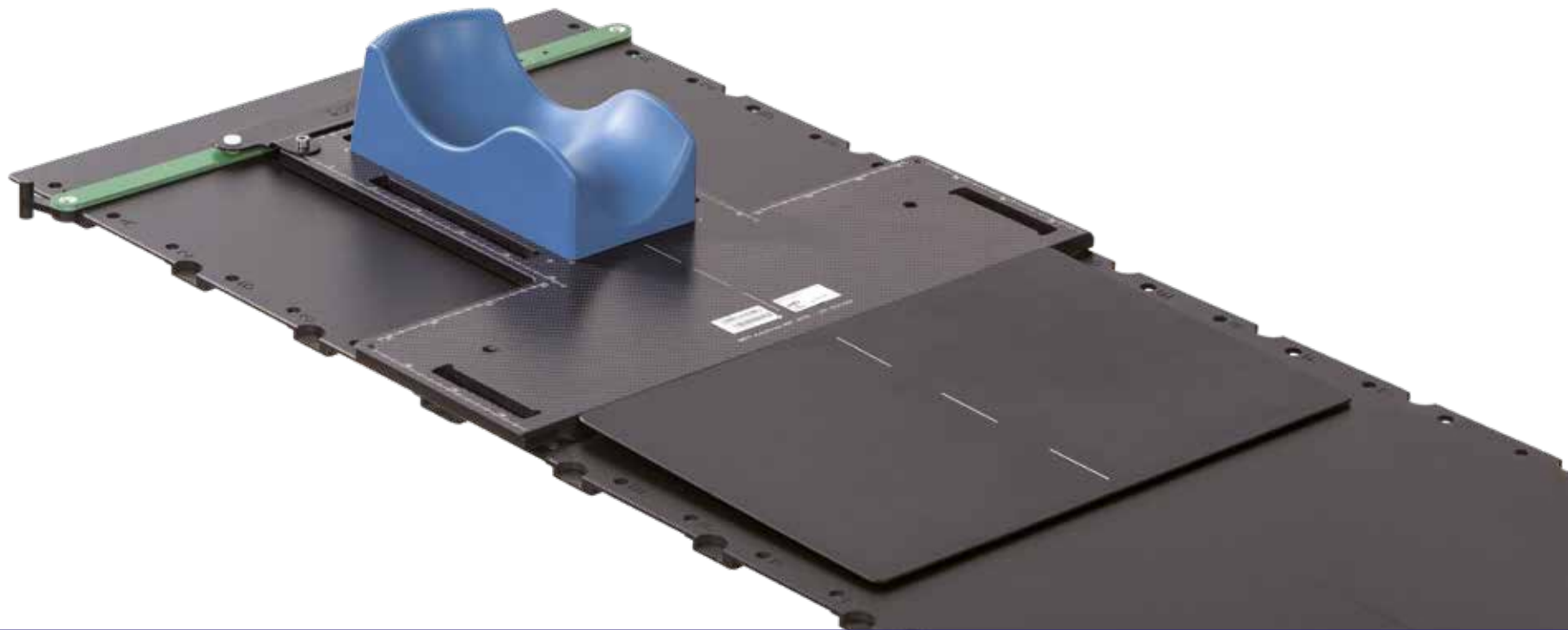
## HIGH PRECISION ACCESSORIES



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.

Art. N° 29105

Base plate extension

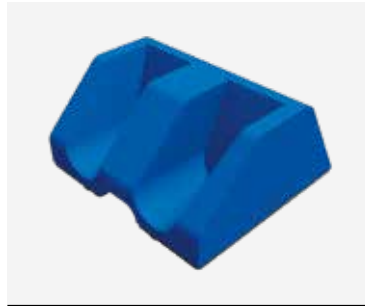


# HIGH PRECISION ACCESSORIES

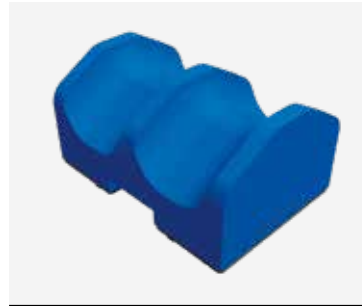
## KNEE AND FEET SUPPORT



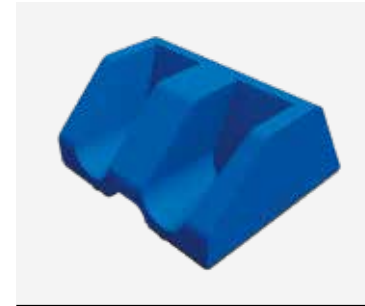
Art. N° 32317/4  
Knee support - indexed on 2-pin bar



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



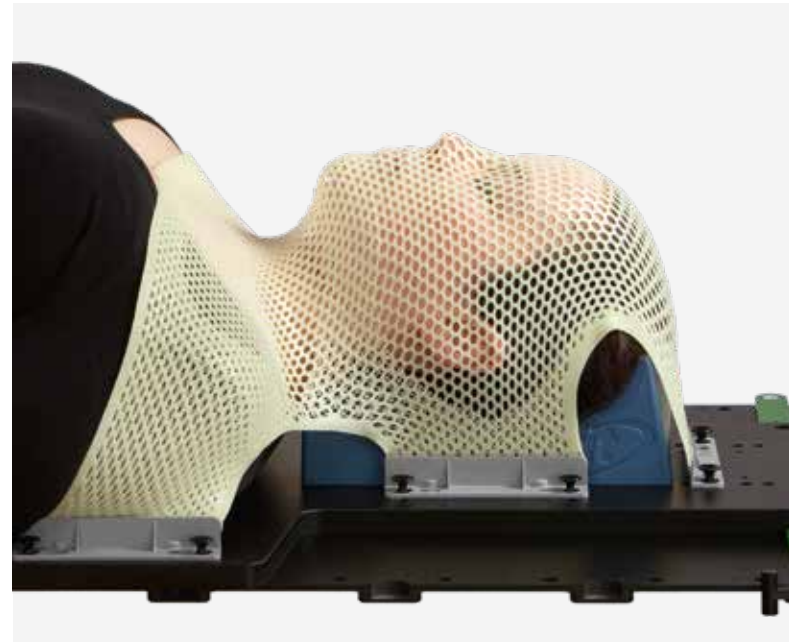
# PUSH-PIN IMMOBILIZATION SYSTEMS

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.

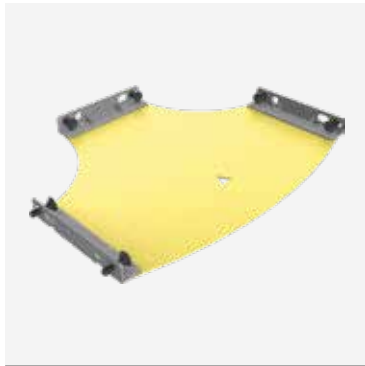
Our thermoplastic masks with push-pin type profiles fit seamlessly on existing hardware that you may have in your department.

**Superior patient  
immobilization  
with Orfit  
thermoplastic masks**

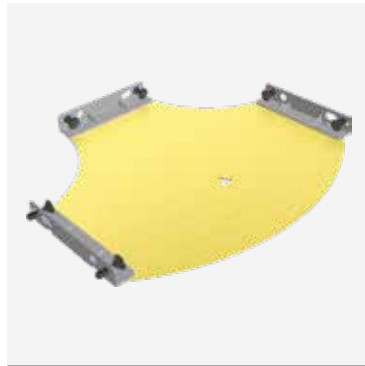


# PUSH-PIN ANTIBACTERIAL MASKS

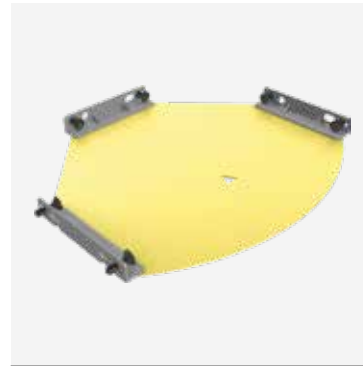
## SINGLE LAYER



**Art. N° 35773/2MA\*/\*\***  
3-points head mask  
with nose hole



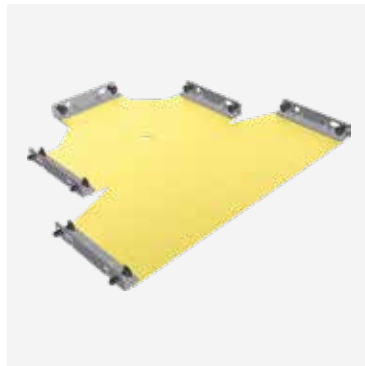
**Art. N° 35768/2MA\*/\*\***  
3-points head mask  
with nose hole  
with neck flap



**Art. N° 35776/2MA\*/\*\***  
3-points head mask  
with nose hole  
with neck and extra cranial flaps



**Art. N° 35774/2MA\***  
4-points  
head, neck and shoulders mask  
with nose hole



**Art. N° 33770/2MA\*\***  
5-points  
head, neck and shoulders mask  
with nose hole  
regular size



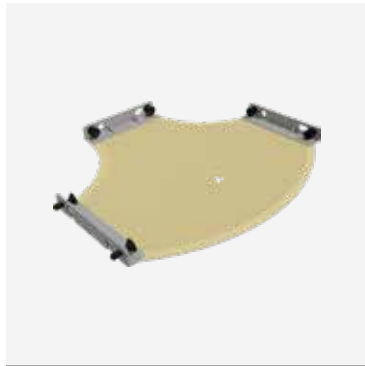
**Art. N° 35791/2MA\*/\*\***  
5-points  
head, neck and shoulders mask  
with nose hole  
large size

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



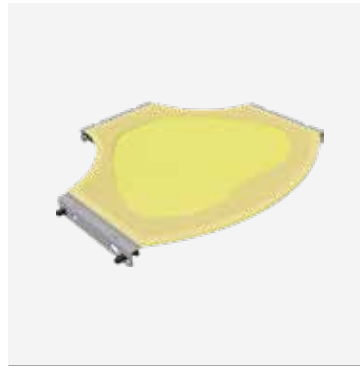
Art. N° 35768/16MI+N  
3-points head mask with nose hole  
with neck flap



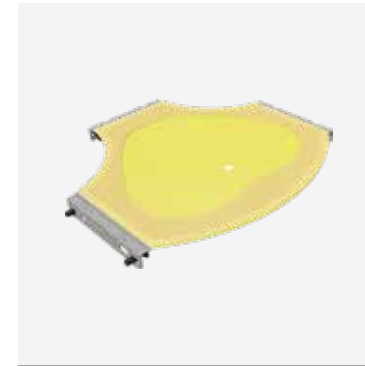
Art. N° 33770/2MI+N  
5-points head, neck and shoulders mask  
with nose hole

## PUSH-PIN ANTIBACTERIAL MASKS

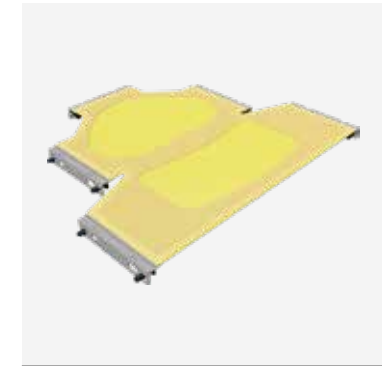
### HYBRID



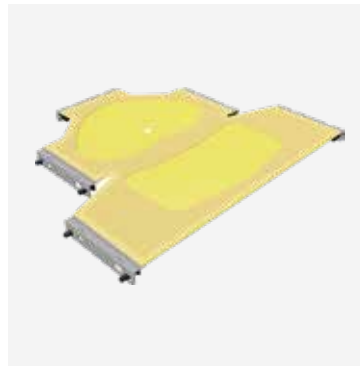
Art. N° 33747/2MA/12MI+N/NH  
3-points  
hybrid head mask



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



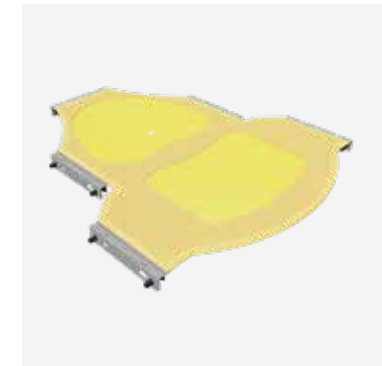
Art. N° 33739/2MA/12MI+N/NH  
5-points  
hybrid head, neck and shoulders mask



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



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



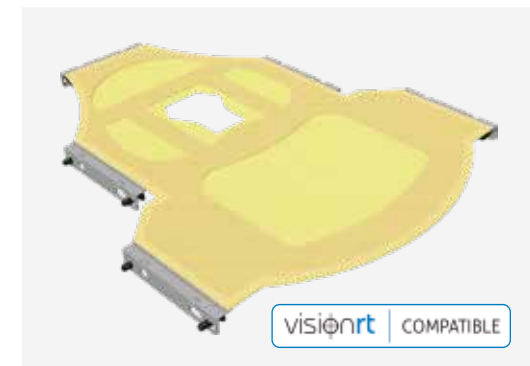
Art. N° 33755/2MA/12MI+N  
5-points  
hybrid head, neck and shoulders mask  
with nose hole  
large size

# PUSH-PIN ANTIBACTERIAL MASKS

## OPEN FACE HYBRID



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



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

\* Vision RT compatible disclaimer available on [www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf](http://www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf)

# PUSH-PIN ANTIBACTERIAL MASKS

## MASKS WITHOUT PROFILES



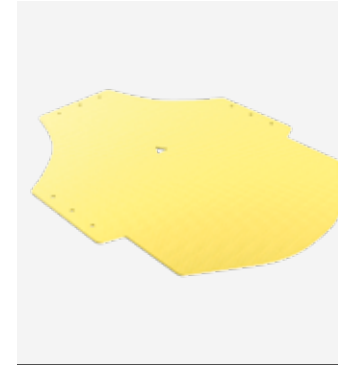
Art. N° 35772/16MI/NP  
2-points head mask  
with nose hole



Art. N° 35773/2MA/NP\*/\*\*  
3-points head mask  
with nose hole



Art. N° 35768/2MA/NP\*\*  
3-points head mask  
with nose hole  
with neck flap



Art. N° 33761/16MI/NP  
3-points head mask  
with nose hole  
with narrow neck flap



Art. N° 33770/2MA/NP\*\*  
5-points  
head, neck and shoulders mask  
with nose hole  
regular size



Art. N° 35791/2MA/NP\*/\*\*  
5-points  
head, neck and shoulders mask  
with nose hole  
large size

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

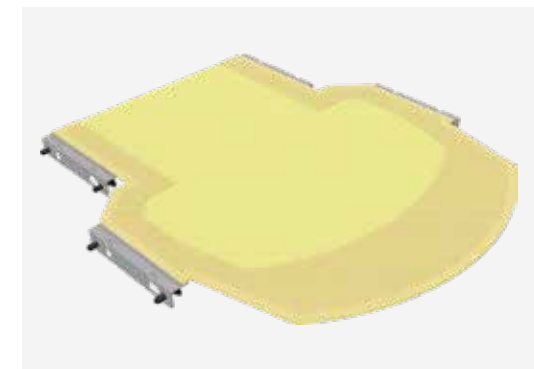
### MASK FOR LUNG TREATMENT



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.



Art. N° 33788/2MI/12MI+N  
4-points hybrid lung mask for push-pin hardware

# PUSH-PIN BASE PLATE

## BASE PLATE



Art. N° 32148

Base plate in CFL for push-pin masks

Head, neck and shoulders

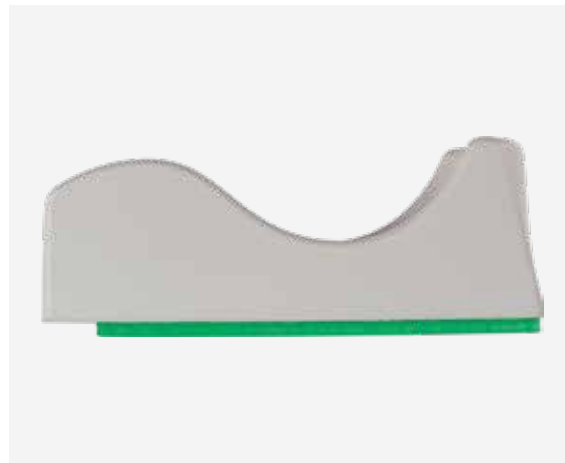


# PUSH-PIN HEAD SUPPORTS

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 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)



Art. N° 32414



Art. N° 32415



Art. N° 32412



Art. N° 32413



Art. N° 32410



Art. N° 32411

## REGULAR DENSITY

Art. N° 32708-MD (set)

Set of 6 regular density head supports (all sizes)



Art. N° 32423-MD



Art. N° 32423ZF-MD



Art. N° 32421-MD



Art. N° 32421ZF-MD



Art. N° 32422-MD



Art. N° 32422ZF-MD

# PUSH-PIN HEAD SUPPORTS

## REGULAR DENSITY - EXTRA SOFT

Art. N° 32450 (set)

Set of 6 regular density head supports - Extra soft (all sizes)



Art. N° 32444



Art. N° 32445



Art. N° 32446



Art. N° 32447



Art. N° 32448



Art. N° 32449

## 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

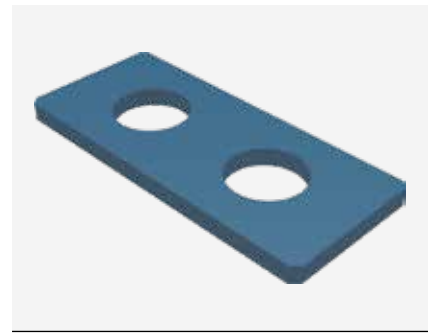
Movable forehead cushion

# 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 FIBER



Art. N° 35675  
Large



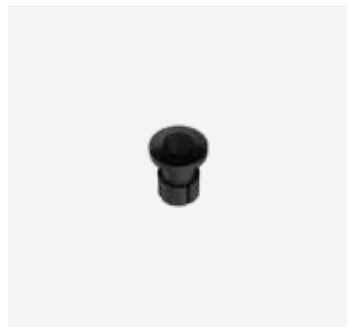
Art. N° 35674  
Small



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



Art. N° 35664/1/20  
Push-pins nut  
(set of 20 pieces)



Art. N° 35664/2/20  
Push-pins pin  
(set of 20 pieces)

# PEDIATRIC IMMOBILIZATION SYSTEMS

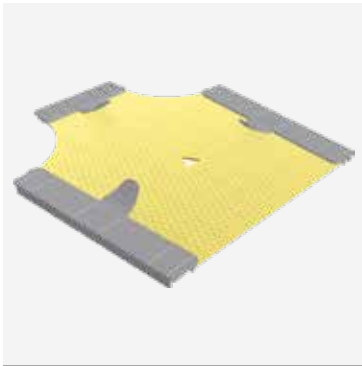
Orfit offers a full range of products dedicated to pediatric patients. It contains base plates, head supports and thermoplastic masks. The products are suitable for patients from 0 to 12 years old.

All the products adhere to the same standards as the immobilization devices for adults.



# HIGH PRECISION PEDIATRIC ANTIBACTERIAL MASKS

## SINGLE LAYER



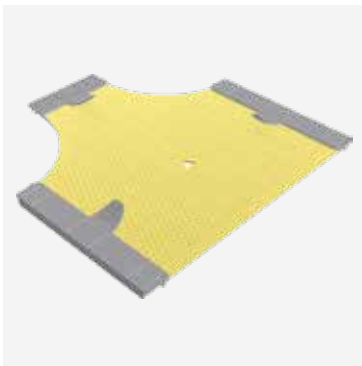
**Art. N° 33710/2MA**

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



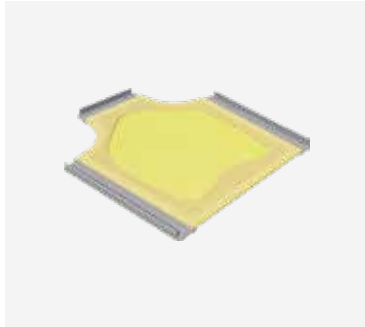
**Art. N° 33702/2MA**

5-points head, neck and shoulders mask  
with narrow shoulder profiles  
small size

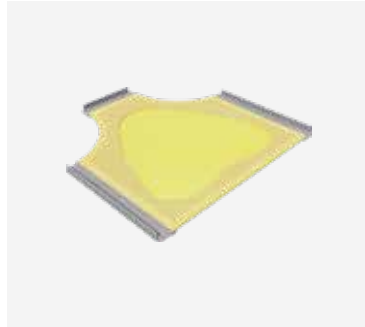


# HIGH PRECISION PEDIATRIC ANTIBACTERIAL MASKS

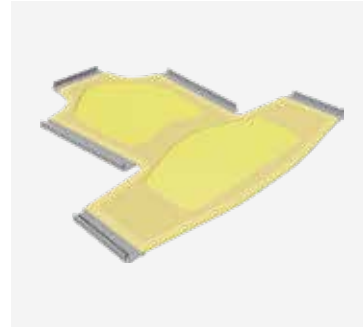
## HYBRID



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

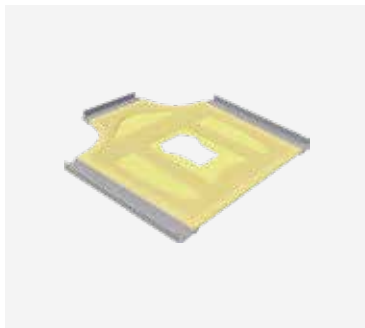


Art. N° 33749/2MA/12MI+N/NH  
3-points hybrid head mask  
medium size

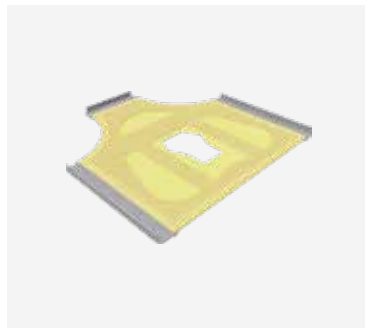


Art. N° 33750/2MA/12MI+N/NH  
5-points hybrid  
head, neck and shoulders mask  
small size

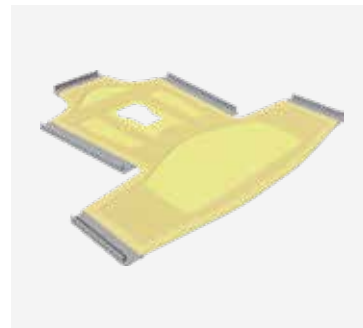
## OPEN FACE HYBRID



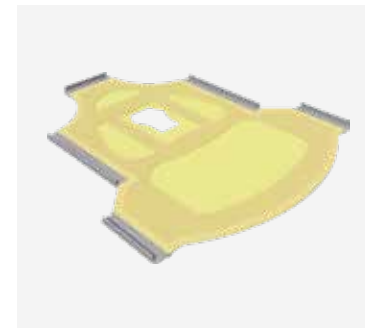
Art. N° 33782/16MI/12MI+N  
3-points open face hybrid head mask  
small size



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



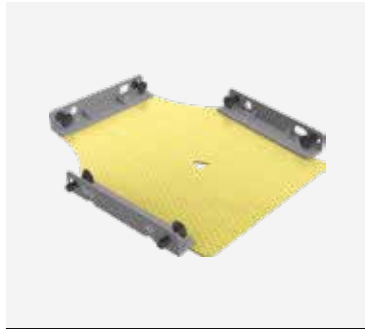
Art. N° 33785/16MI/12MI+N  
5-points open face hybrid  
head, neck and shoulders mask  
small size



Art. N° 33787/16MI/12MI+N  
5-points open face hybrid  
head, neck and shoulders mask  
medium size

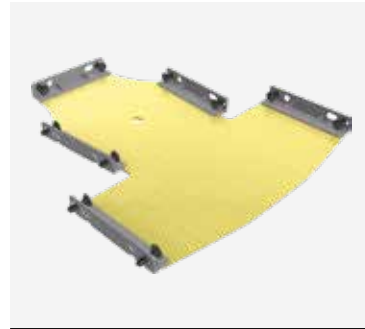
# PUSH-PIN PEDIATRIC ANTIBACTERIAL MASKS

## SINGLE LAYER



Art. N° 33690/2MA

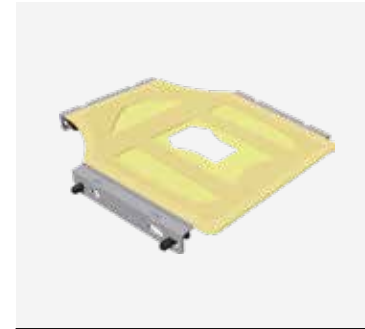
3-points head mask  
with nose hole  
small size



Art. N° 33691/2MA

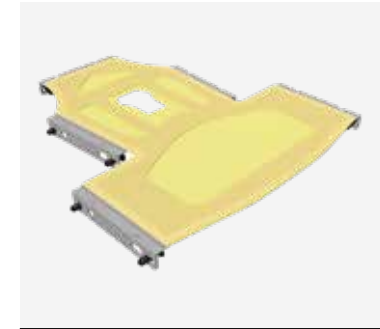
5-points head, neck and shoulders mask  
with nose hole  
small size

## OPEN FACE HYBRID



Art. N° 33784/16MI/12MI+N

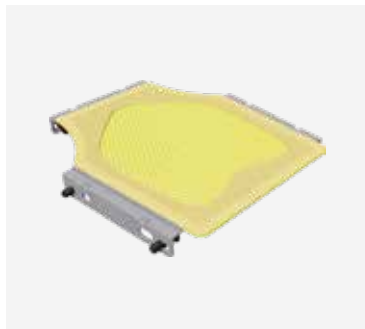
3-points open face hybrid head mask  
small size



Art. N° 33786/16MI/12MI+N

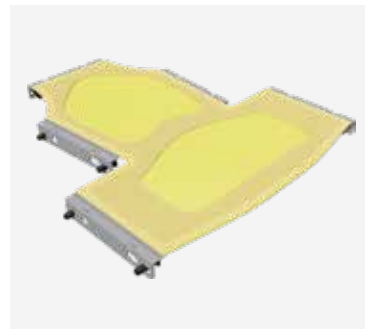
5-points open face hybrid  
head, neck and shoulders mask  
small size

## 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

# HIGH PRECISION PEDIATRIC BASE PLATES

Orfit's lightweight and precisely engineered Pediatric Hardware ensures outstanding immobilization results. The Orfit Pediatric Base Plate design consists of a sandwich construction, with a foam core and ultra thin carbon fiber 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 Pediatric High Precision Base Plate is securely mounted to the table top. Positioning indicators on the base plate help to reduce patient setup time and ensure precise positioning and immobilization during each fraction.

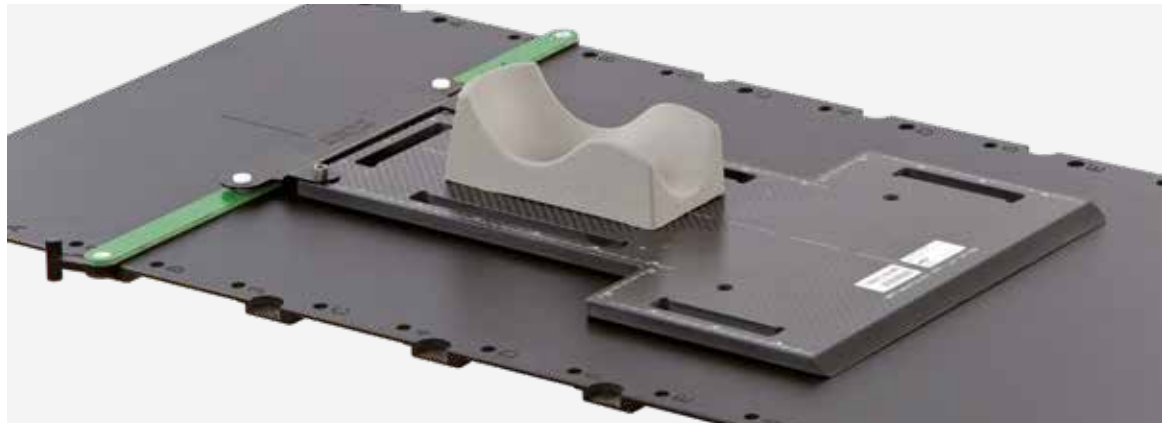
## LOW DENSITY



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



**Art. N° 32150-PED**  
High precision pediatric long base plate in CFL for IMRT/IGRT  
Head, neck and shoulders



## HIGH PRECISION PEDIATRIC 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.

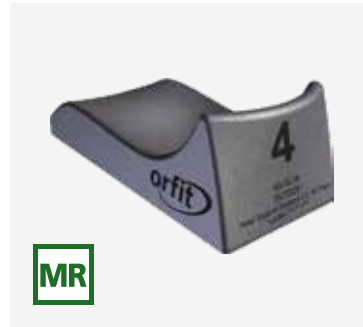


# HIGH PRECISION PEDIATRIC HEAD SUPPORTS

## LOW DENSITY



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

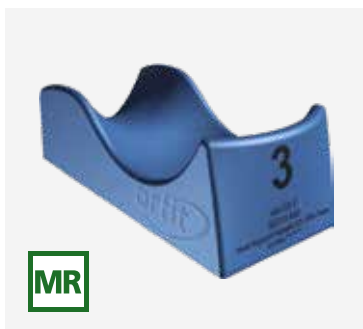


Art. N° 35753ZF  
Pediatric head support  
without lateral neck flaps  
Age 6 to 12

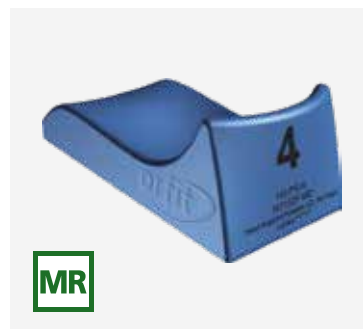


Art. N° 35753-80  
Pediatric head support  
with lateral neck flaps  
Extra-small size  
Age 0 to 5

## REGULAR DENSITY



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



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



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



Art. N° 32380  
Prone head support adjustable in size  
Movable chin cushion

# UON<sup>®</sup> AND DUON<sup>®</sup>

## 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.

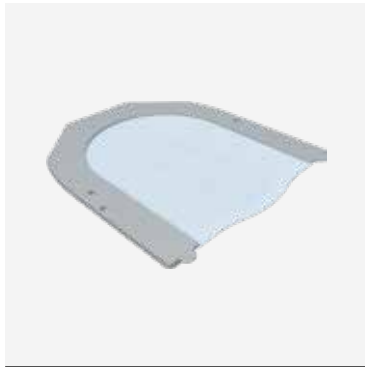
## Thermoplastic properties

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.

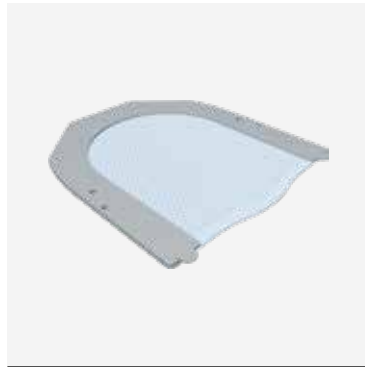


# UON® ANTIBACTERIAL MASKS

## HEAD AND NECK



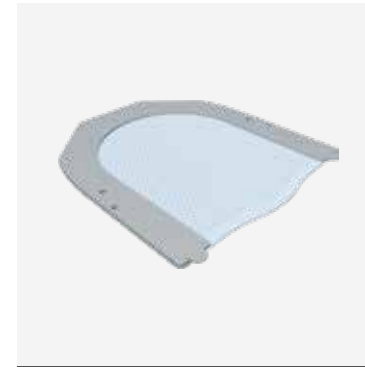
**Art. N° 60110**  
2.4 mm  
hybrid perforation



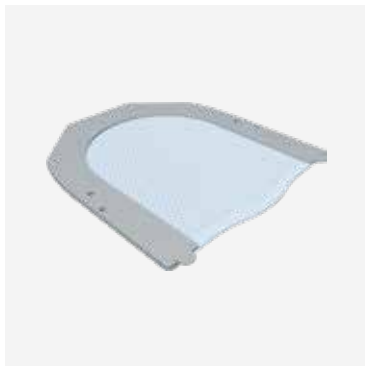
**Art. N° 60112**  
2.4 mm  
micro plus perforation



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



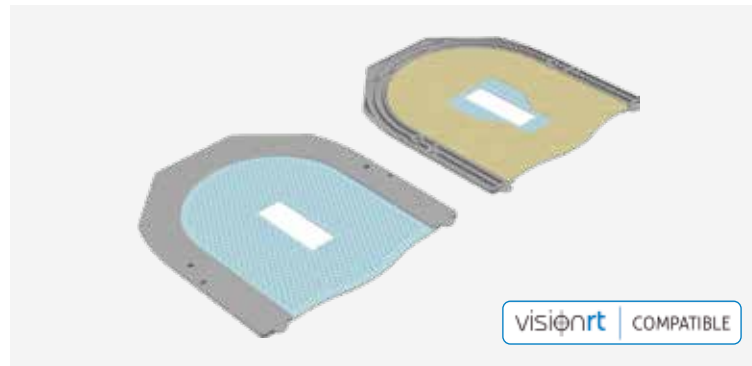
**Art. N° 60114**  
2.4 mm  
maxi perforation



**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

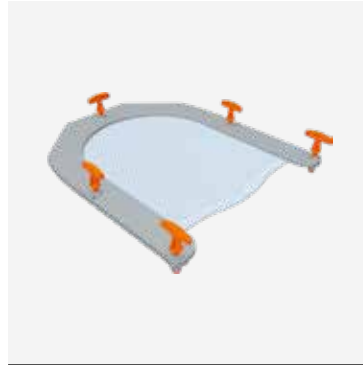
\* Vision RT compatible disclaimer available on [www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf](http://www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf)

# 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

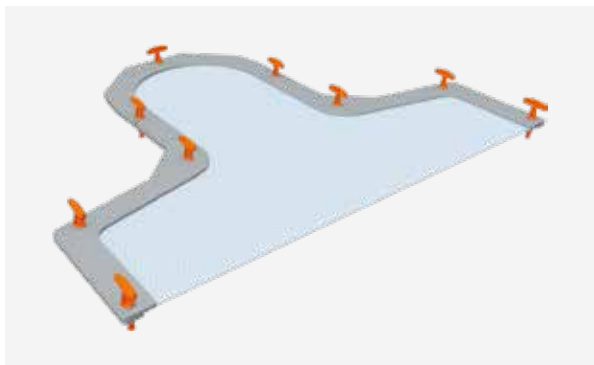


Art. N° 60123  
3.2 mm  
maxi perforation  
with neck flap

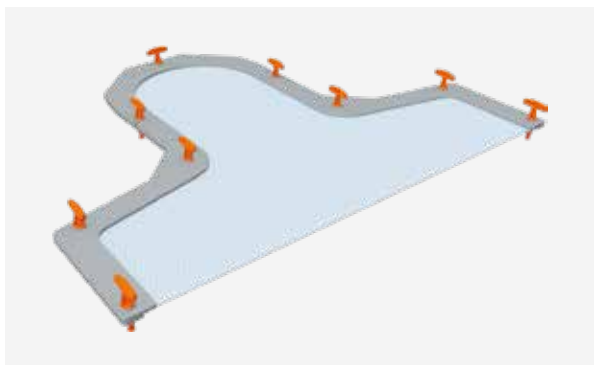


# DUON® ANTIBACTERIAL MASKS

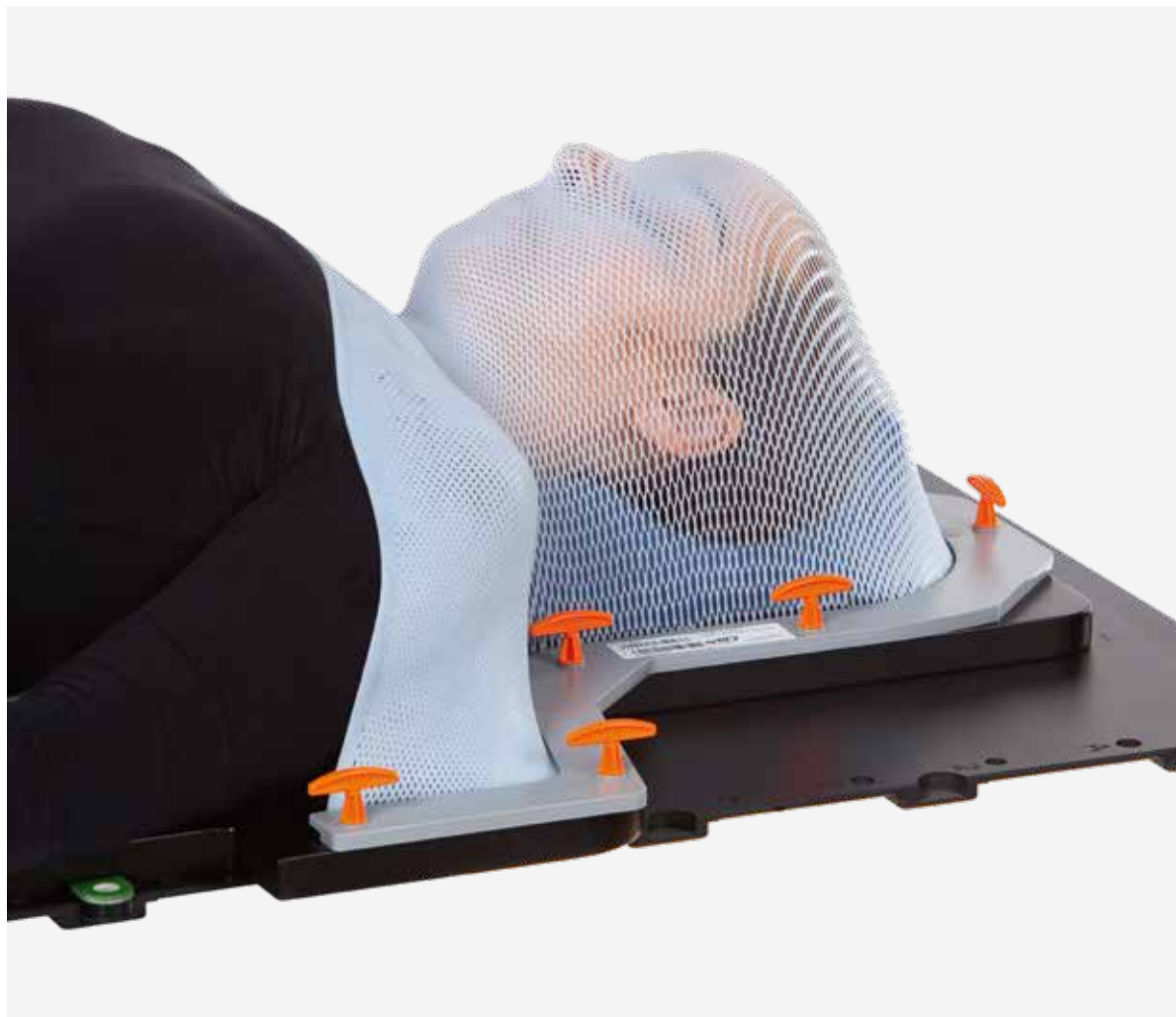
## HEAD, NECK AND SHOULDERS



Art. N° 60001  
2.4 mm  
micro plus perforation

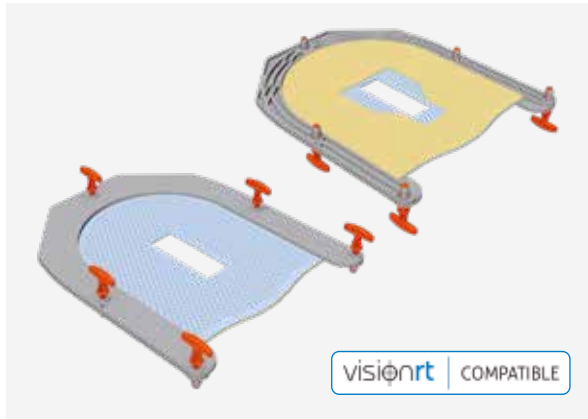


Art. N° 60002  
3.2 mm  
maxi perforation



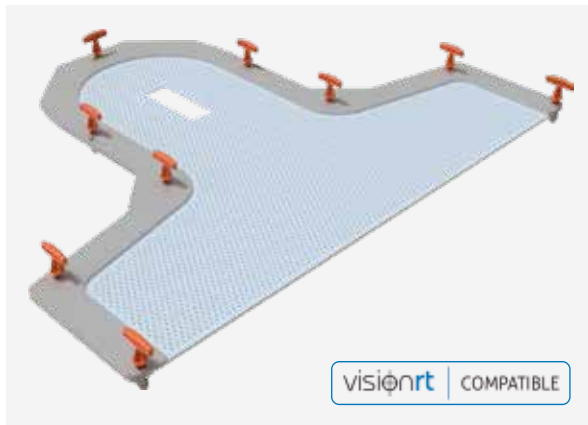
# DUON® ANTIBACTERIAL MASKS

## OPEN FACE HYBRID



Art. N° 60125

U-plast 2.4 mm maxi perforation + Nanor 1.2 mm micro plus perforation



Art. N° 60009

U-Plast 2.4 mm maxi perforation + Nanor 1.2 mm micro plus perforation



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[www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf](http://www.orfit.com/app/uploads/Disclaimer-Vision-RT-website.pdf)

# 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

# UON® AND DUON® HEAD SUPPORT ADAPTER PLATES

## 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.



Art. N° 32046

For use with U-shaped base plates  
Acrylic



Art. N° 32047

For use with S-shaped base plates  
Acrylic



Art. N° 32047-CFL

For use with S-shaped base plates  
CFL