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

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, neck and shoulders

3-points

head, neck and shoulders

4-points

head, neck and shoulders (with cranial flap)

5-points
A number of clinical studies have proven the effectiveness of Efficast in combination with Raycast High Precision Hardware.

**CLINICAL STUDIES**

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


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

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

Thermoplastics with superior 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.
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° 35779/2MA
3-points head mask 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° 35760/EFF2MA
3-points head mask with neck flap with extra cranial flaps
HIGH PRECISION
ANTIBACTERIAL MASKS

SINGLE LAYER

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° 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

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

A thin, yet strong mask
Fits around the patient like a surgical glove
Lower pressure on the patient’s face
Adapts to minor patient swelling

www.orfit.com/nanor for more information.
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 precuts consists of a 3-points head precut and a 4-points and 5-points head, neck and shoulders precut.
HIGH PRECISION ANTIBACTERIAL MASKS

HYBRID

Nanor-reinforced thermoplastic masks are thinner and lighter with excellent stability and patient comfort.
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 nanotechnology, that allows to make a mask that is thinner, lighter and yet stable.

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

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

www.visionrt.com

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° 32110/12**
  High precision small base plate in CFL
  Head and neck

- **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/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)
# HEAD, NECK AND SHOULDERS | HIGH PRECISION

## LOW DENSITY

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
<th>Material</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>32064</td>
<td>High precision tiltable base plate in CFL</td>
<td>Head and neck</td>
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## HIGH DENSITY

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
<th>Material</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>35754/6N</td>
<td>High precision base plate in HPL</td>
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<td>MR compatible</td>
</tr>
<tr>
<td>35751N</td>
<td>High precision base plate in HPL</td>
<td>Head, neck and shoulders</td>
<td>MR compatible</td>
</tr>
<tr>
<td>32113</td>
<td>High precision base plate in polycarbonate for Cyberknife</td>
<td>Head and neck</td>
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</tr>
<tr>
<td>32809</td>
<td>High precision extension in polycarbonate for TRILOGY</td>
<td>Head and neck</td>
<td></td>
</tr>
<tr>
<td>32117</td>
<td>High precision base plate in polycarbonate for Cyberknife</td>
<td>Head, neck and shoulders</td>
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</tbody>
</table>
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)

REGULAR DENSITY
Art. N° 32702-MD (set)
Set of regular density head supports (all sizes)
HEAD, NECK AND SHOULDERS | HIGH PRECISION

HIGH PRECISION HEAD SUPPORTS

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

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

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

Art. N° 32380
Prone head support adjustable in size
Movable chin cushion
Thermofit is an innovative thermoplastic solution for the creation of a 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 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 dosimetrical properties with a low attenuation percentage.

Thermofit is odorless and has long 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.
HEAD, NECK AND SHOULDERS | HIGH PRECISION

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

<table>
<thead>
<tr>
<th>Art. N°</th>
<th>Description</th>
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<tr>
<td>35703</td>
<td>block 20 mm</td>
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<tr>
<td>35706</td>
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<tr>
<td>35704</td>
<td>wedge 9°</td>
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<tr>
<td>35707</td>
<td>wedge 18°</td>
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Art. N° 32709 (set)
Set of low density blocks and wedges - CFL

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<tr>
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<tr>
<td>35703</td>
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<tr>
<td>35706</td>
<td>block 40 mm</td>
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<tr>
<td>35704</td>
<td>wedge 9°</td>
</tr>
<tr>
<td>32424</td>
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Art. N° 32712 (set)
Set of low density blocks and wedges - CFL

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<tr>
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<td>35707</td>
<td>wedge 18°</td>
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<tr>
<td>32424</td>
<td>wedge 13.5°</td>
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**HIGH PRECISION BLOCKS AND WEDGES**

**LOW DENSITY**

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<th>Art. N°</th>
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<td>block 40 mm</td>
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<td>35707/MR</td>
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<tr>
<td>35704/MR</td>
<td>wedge 9°</td>
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<tr>
<td>32424/MR</td>
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Set of low density blocks and wedges - MR compatible

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<tr>
<td>32424/MR</td>
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Set of low density blocks and wedges - MR compatible
### HEAD, NECK AND SHOULDERS | HIGH PRECISION

### HIGH PRECISION

**BLOCKS AND WEDGES**

### HIGH DENSITY

<table>
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<tr>
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<td>35754/4</td>
<td>wedge 18°</td>
<td>35754/4</td>
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<td>35754/5</td>
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</table>
The Orfit Arm Strap allows the patient to hold their arms in a comfortable position by the side of their body. It requires no effort from their side. It is the ideal solution for patients with paralysis, patients that cannot lie still, large patients that cannot position their arms on the table, etc. Increased comfort for the patient results in decreased motion, better image quality and a more accurate treatment result. The Arm Strap is one-size-fits all thanks to the velcro that allows you to adjust the strap to the patient’s anatomy.

Another option for the arms is the Shoulder Positioning System, which allows pulling down the shoulders of the patient. This is helpful when molding a 5-points head, neck and shoulders mask.
## HIGH PRECISION

### ACCESSORIES

#### KNEE AND FEET SUPPORT

<table>
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<tr>
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<tbody>
<tr>
<td>Knee support - indexed on 2-pin bar</td>
<td>Feet support - indexed on 2-pin bar</td>
<td>Knee support - non-indexed</td>
<td>Feet support - non-indexed</td>
</tr>
</tbody>
</table>

![Image of knee and feet support](image-url)

[Image of a person lying on a medical bed with knee and feet supports]
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 precuts 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.
**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° 33768/16Mi+N
3-points head mask with nose hole with neck flap

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

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

PUSH-PIN ANTIBACTERIAL MASKS

HYBRID

Art. N° 33747/2MA/12Mi+N/NH
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
PUSH-PIN
ANTIBACTERIAL MASKS

OPEN FACE HYBRID

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

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

PUSH-PIN
ANTIBACTERIAL MASKS

MASKS WITHOUT PROFILES

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° 35770/2MA/NP
5-points
head, neck and shoulders mask
with nose hole
regular size

35791/16MI/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)
HEAD, NECK AND SHOULDERS | PUSH-PIN

**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.
PUSH-PIN BASE PLATE

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

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

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

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

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

PUSH-PIN
HEAD SUPPORTS

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

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

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

ADAPTERS FOR HP HEAD SUPPORTS AND BLOCKS AND WEDGES

Art. N° 32149
Low density adapter

Art. N° 32048
Regular density adapter

PROFILES IN CARBON 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)
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

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<tbody>
<tr>
<td>3-points head mask with nose hole</td>
<td>3-points head mask with nose hole</td>
<td>5-points head, neck and shoulders mask with nose hole</td>
<td>5-points head, neck and shoulders mask with narrow shoulder profiles</td>
<td>5-points head, neck and shoulders mask with nose hole</td>
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<tr>
<td>small size</td>
<td>medium size</td>
<td>small size</td>
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<tr>
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<td>Description</td>
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<td>33748/2MA/12MI+N/NH</td>
<td>3-points hybrid head mask</td>
<td>small size</td>
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<tr>
<td>33749/2MA/12MI+N/NH</td>
<td>3-points hybrid head mask</td>
<td>medium size</td>
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<tr>
<td>33750/2MA/12MI+N/NH</td>
<td>5-points hybrid head, neck and shoulders mask</td>
<td>small size</td>
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<tr>
<td>33780/16MI/12MI+N</td>
<td>5-points open face hybrid head mask</td>
<td>medium size</td>
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<tr>
<td>33781/16MI/12MI+N</td>
<td>5-points open face hybrid head mask</td>
<td>small size</td>
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**HEAD, NECK AND SHOULDERS | PEDIATRIC**

**HIGH PRECISION PEDIATRIC ANTIBACTERIAL MASKS**

**HYBRID**

**OPEN FACE HYBRID**
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
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.
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

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
UON® AND DUON®

U/S-shaped frame
UON and DUON head and neck masks and DUON head, neck and shoulders masks combine the unique features of U-Plast thermoplastic material with a strong U- and S-Shaped frame with an improved bending stiffness. This results in a more sturdy mask.

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

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

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

HEAD AND NECK

Art. N° 60110
2.4 mm
hybrid perforation

Art. N° 60112
2.4 mm
micro plus perforation

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

Art. N° 60114
2.4 mm
maxi perforation

Art. N° 60095
3.2 mm
maxi perforation

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

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

DUON® ANTIBACTERIAL MASKS

HEAD AND NECK

Art. N° 60120
2.4 mm
hybrid perforation

Art. N° 60119
2.4 mm
micro plus perforation

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

Art. N° 60124
2.4 mm
maxi perforation

Art. N° 60121
3.2 mm
maxi perforation

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

HEAD, NECK AND SHOULDERS

Art. N° 60001
2.4 mm
micro plus perforation

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

OPEN FACE HYBRID

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

Art. N° 60009
U-Plast 2.4 mm maxi perforation + Nanor 1.2 mm micro plus perforation

HEAD, NECK AND SHOULDERS  |  UON® AND DUON®

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

UON BASE PLATE

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

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

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

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

UON and DUON head supports for use with your base plate

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

Orfit Head Support Adapter Plates 32046 for U-Shaped base plates and 32047 and 32047-CFL for S-Shaped base plates enable you to quickly convert your base plate so it is compatible for use with all Orfit Head Supports.