Orfit Products
Contribute Significantly to an Excellent Therapy Outcome
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 and Neck and our Efficast and UON/DUON thermoplastic precuts 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, hypofractionated 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

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 provide maximum movement restriction down to less than 1.5 mm.

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 (2004), 71 (3), 339-345


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

Stability of different immobilization masks from Orfit Industries

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

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Stability of different immobilization masks from Orfit Industries
Head, Neck and Shoulders

- High Precision
- Pediatric product line
- MRI-compatible products
- UON + DUON
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.

1. PRECISION/ACCURACY
   - Limit patient movement
     - Overall Efficast mask stability limits patient displacement to less than 2 mm within the mask and less than 1.5 mm when using Hybrid masks.
     - 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 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. Thermoplastics with superior molding 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 remold 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.
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.
Raycast®
High Precision Hardware

High Precision High Density Base Plates

Art. No. 35754/6N
High precision base plate in HPL
Head and neck

Art. No. 32113
High precision base plate in polycarbonate
Head and neck
Cyberknife compatible

High Precision High Density Base Plates

Art. No. 32809
High precision extension for TRILOGY in polycarbonate
Head and neck

Art. No. 35751N
High precision base plate in HPL
Head, neck and shoulders

Art. No. 32117
High precision base plate in polycarbonate
Head, neck and shoulders
Cyberknife compatible
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, 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.

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 and Neck

Positioning Blocks and Wedges

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
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<tr>
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<tr>
<td>35754/3</td>
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<tr>
<td>35754/4</td>
<td>High density (rigid PE)</td>
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</tr>
</tbody>
</table>
Head, Neck and Shoulders - Accessories

Accessories

Art. No. 32107
The 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.

The arm strap 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. No. 32042
Shoulder positioning system

Art. No. 29105
Base plate extension

Head, Neck and Shoulders - Accessories

Accessories

Art. No. 32317/4
Knee Support - indexed on 2-pin bar

Art. No. 32317/5
Feet Support - indexed on 2-pin bar

Art. No. 32317/4/1
Knee Support - non indexed

Art. No. 32317/5/1
Feet Support - non indexed
The antibacterial effect of the coating was determined using the ISO 22196:2011 test method. The results show a reduction of > 99.99% of the following bacteria:

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

MRSA, the so-called hospital bacteria, is the most common nosocomial infection in Europe. It is estimated that over 170,000 MRSA infections in Europe result in 5,000 deaths every year. The department of Health and Human Services in the USA estimated 94,360 invasive MRSA infections in 2008, associated with 18,650 deaths each year.

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

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

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

- Chin only
- 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
- Open Face Hybrid mask
- Pediatric 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.

Efficast masks offer a unique combination of high precision immobilization, ease of molding, safety and comfort for the patient.

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.

Antibacterial coating

Efficast masks are treated with a unique water-based non-stick coating that has antibacterial properties and that prevents sticking of the mask to skin, hair and hardware.
For High Precision Immobilization

Efficast High Precision Antibacterial Masks for Head, Neck and Shoulders

- **Art. No. 33776/2MA**
  - 2-points chin mask

- **Art. No. 35763/2MA**
  - 3-points head mask with nose hole*

- **Art. No. 35763/2MA/EM**
  - 3-points head mask with nose, eyes and mouth hole*

- **Art. No. 35763/2MA/G35**
  - 3-points head mask with nose hole 35mm up

- **Art. No. 35763/2MA/NH**
  - 3-points head mask*

- **Art. No. 35763/2MA/EM**
  - 3-points head mask with nose, eyes and mouth hole*

- **Art. No. 35760/EFF2MA**
  - 3-points head mask with nose hole extra cranial flaps*

- **Art. No. 35760/EFF2MA/M**
  - 3-points head mask with nose and mouth hole extra cranial flaps*

- **Art. No. 35760/EFF2MA/EM**
  - 3-points head mask with nose, eyes and mouth hole extra cranial flaps*

- **Art. No. 35760/EFF2MA/NH**
  - 3-points head mask with nose and mouth hole extra cranial flaps*

- **Art. No. 35779/2MA**
  - 3-points head mask with nose hole neck flap*

- **Art. No. 35764/2MA**
  - 4-points head, neck and shoulder mask with nose hole*

- **Art. No. 35764/2MA/NH**
  - 4-points head, neck and shoulder mask with nose hole neck flap*
Efficast High Precision Antibacterial Masks
for Head, Neck and Shoulders

For High Precision Immobilization

Art. No. 33700/2MA/NH
5-points head, neck and shoulder mask

Art. No. 35779/2MA/M
3-points head mask with nose and mouth hole
neck flap*

Art. No. 35764/2MA/M
4-points head, neck and shoulder mask with nose and mouth hole*

Art. No. 35779/2MA/EM
3-points head mask with nose, eyes and mouth hole

Art. No. 35764/2MA/EM
4-points head, neck and shoulder mask with nose, eyes and mouth hole*

Art. No. 33700/2MA
5-points head, neck and shoulder mask with nose hole*

Art. No. 33700/2MA/EM
5-points head, neck and shoulder mask with nose, eyes and mouth hole*

Art. No. 33730/4
5-points head, neck and shoulder mask with nose hole - large size

These masks are available in 2 mm thickness with maxi perforation (Art. No. with extension /2MA)

* Additional available thicknesses and perforation types: 1.6 mm micro perforation (Art. No. with extension/16M)
High Precision
Hybrid Masks
for Head, Neck
and Shoulders

Precision has always been, and will always be, the main
driving force in Radiation Oncology for improving
existing treatment techniques and for adopting
changes in the existing treatment routines.

The search for improvement of the overall precision
of cancer treatment has led to the introduction
techniques like 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
treatments as they leave too much room for the
patients to move.

Therefore Orfit Industries 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 big-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 range of hybrid precuts consists of a 3-points head
and neck precut and 5-points head, neck and shoulders
precut, both for regular and pediatric patients.
High Precision Open Face Hybrid Masks for Head, Neck and Shoulders

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 entirely new 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.
High Precision Pediatric Hardware

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.

High Precision Pediatric Low Density Base Plates

- Art. No. 32111
  HP pediatric base plate
  Head, neck and shoulders

- Art. No. 32150-PED
  HP long base plate for IMRT/IGRT
  Pediatric version
  Head, neck and shoulders

Pediatric Head Supports

- Art. No. 32150-PED
  HP long base plate for IMRT/IGRT
  Pediatric version
  Head, neck and shoulders

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 Pediatric Head Supports

- Art. No. 35753
  Pediatric head support with lateral neck flaps - low density
  Age 6 to 12

- Art. No. 35753Z
  Pediatric head support without lateral neck flaps - low density
  Age 6 to 12

- Art. No. 35753-80
  Pediatric head support with lateral neck flaps - Extra-small size - low density
  Age 0 to 5

- Art. No. 35713-MD/VS
  Pediatric head support with lateral neck flaps - regular density
  Age 6 to 12

- Art. No. 35713Z-MD/VS
  Pediatric head support without lateral neck flaps - regular density
  Age 6 to 12

- Art. No. 32393
  Prone head support adjustable in size, Movable chin cushion

- Art. No. 32380
  Prone head support adjustable in size, Movable forehead cushion
High Precision Pediatric Masks for Head, Neck and Shoulders

For High Precision Immobilization

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<th>Art. No.</th>
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<tr>
<td>33710/2MA</td>
<td>3-points head mask with nose hole - small</td>
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<td>33710/2MA/NH</td>
<td>3-points head mask without nose hole - small</td>
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<tr>
<td>33688/3MA</td>
<td>3-points head mask with nose hole - medium</td>
</tr>
<tr>
<td>33705/2MA</td>
<td>5-points head, neck and shoulder mask with nose hole - small</td>
</tr>
</tbody>
</table>
Efficast Pediatric High Precision Antibacterial Hybrid Masks for Head, Neck and Shoulders

For Extra High Precision Immobilization

- Art. No. 33748/2MA/12MI+N/NH
  3-point hybrid head mask pediatric - small

- Art. No. 33749/2MA/12MI+N/NH
  3-point hybrid head mask pediatric - medium

For High Precision Immobilization

- Art. No. 33782/16MI/12MI+N
  3-point open face head mask pediatric - small

- Art. No. 33783/16MI/12MI+N
  3-point open face head mask pediatric - medium

- Art. No. 33784/16MI/12MI+N
  3-point open face head mask pediatric - small

- Art. No. 33785/16MI/12MI+N
  5-point open face head, neck and shoulder mask pediatric - small

- Art. No. 33787/16MI/12MI+N
  5-point open face head, neck and shoulder mask pediatric - medium
The Orfit MRI-S Solution for Brain, Head and Neck provides patient immobilization on the Siemens MAGNETOM family of MRI scanners. It allows for fusion of images with the patient in exactly the same position as in simulation and treatment. The Solution includes a High Precision (HP) Base Plate, a bi-lateral antenna holder, a set of six HP Headrests, and a set of couch top fixations. Patients are immobilized with an Efficast thermoplastic 3-points or 5-points mask. All components and thermoplastic masks are MRI-compatible and meet the standards of Siemens AG Healthcare with respect to functioning on the following Magnetic Resonance Systems.

**HP base plate**
The HP base plate comes with different sets of dedicated indexing fixations so that it can be mounted on top of the different couch tops of the Siemens MAGNETOM family MRI scanners. Slots are provided in the base plate to attach Orfit Efficast thermoplastic head and neck masks. All Orfit HP head supports, blocks and wedges can also be positioned on the base plate. This allows the patient to be immobilized in exactly the same position as for simulation and treatment.

**Bi-lateral antenna holder**
The antenna holder slides over the cranial end of the base plate. It can be opened for easy mounting of the antennas and for patient setup with a mask. In a closed position the antennas are very close to the head of the patient for optimal image quality. The levers of the holder accept the large Flex coils of the Siemens MRI system.

<table>
<thead>
<tr>
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<th>3 Tesla</th>
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<td>• Verio</td>
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<td>• Trio a Tim System</td>
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<td>• Symphony a Tim System</td>
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<tr>
<td>Tim 4G System</td>
<td>• Aera</td>
<td>• Skyra</td>
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<td>• Spectra</td>
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The Orfit MRI-P Solution is designed for Philips MRI Scanners and the Orfit MRI-G Solution for GE MRI Scanners.

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

Orfit MRI-P

and

Orfit MRI-G

Solution

for Brain, Head and Neck

Art. No. 29111-P
Art. No. 29111-G
For superior performance, patient comfort and reproducibility

UON U-Shaped Head masks and DUON S-Shaped Head-Neck-Shoulder masks combine the unique features of U-Plast thermoplastic material with a U- and S-Shaped frame that is compatible for use with virtually all base plate hardware.

UON and DUON masks will provide superior performance and patient immobilization. They will eliminate virtually all of the problems/difficulties associated with the existing first generation masks that are currently used in other U-Shaped and S-Shaped products.

UON and DUON masks are easier to use and much more comfortable for patients thanks to an innovative non-stick coating and significantly reduced shrinkage. UON and DUON masks will not stick to the patient’s hair, skin or hardware. There is no need to use silicone spray to prevent sticking of the mask to the patient or hardware as is common with other thermoplastic materials.

UON and DUON masks eliminate the difficulties associated with uncontrolled shrinkage that is commonplace with other masks.

In addition, UON and DUON masks become moldable at 149°F - 158°F: This is 10°F - 15°F lower than the first generation masks on the market. Therapists no longer have to worry about burning their hands in a hot water bath or burning the patient. UON and DUON can be placed immediately on the patient after it is towel dried, increasing patient throughput.

It totally eliminates the need to use special cold sprays or cooling mitts before placing the masks on the patient. The low molding temperature of UON and DUON masks also significantly increases patient comfort.

UON and DUON masks are compatible for use with virtually all base plates on the market that are currently used with U-Shaped and S-Shaped masks. Orfit also offers a full range of carbon fiber laminate and high density base plates and couch extension for use with UON and DUON.
**UON® and DUON® Immobilization Masks**

**DUON Head, Neck and Shoulders**
- Art. No. 60001
  - 2.4 mm micro plus perforation
- Art. No. 60002
  - 3.2 mm maxi perforation

**UON and DUON base plate**
- Art. No. 32097
  - Base plate for head and neck - Acrylic

**DUON-HP EXTENSION**
- Art. No. INT-1D
  - Integra Table Top Extension for a Varian Exact® couch HP and DUON masks

**DUON-HP Base Plates**
- Art. No. INT-3
  - Integra head, neck and shoulders board - CFL HP and DUON masks

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**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 UON and DUON low density 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’s compatible for use with all Orfit head supports.

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**UON and DUON Head Support Adapter Plates**
- Art. No. 32046
  - For use with U-Shaped base plates - Acrylic
- Art. No. 32047-CFL
  - For use with S-Shaped base plates - CFL
- Art. No. 32047
  - For use with S-Shaped base plates - Acrylic
Pelvicast masks decrease interfractional and intrafractional motion.

Masks are available in different sizes.

The leg separator is the ideal reference point and decreases skin folds.

The L-profiles secure more of the mask to the base plate and are easy to release.

Suitable for both the prone and supine position.
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.

1. Raycast carbon fiber low density hardware.
2. Pelvicast frameless thermoplastic masks.
3. 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.

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.

REPRODUCIBILITY
Reduce daily shifts
> Well defined and indexable thermoplastic masks insure a consistent daily position.
> Leg separator prevents patient from sliding, ensuring a precise and reproducible immobilization. It also acts as a reference point for positioning a patient prior to immobilization.

PATIENT COMFORT
Increase acceptance
> Antibacterial non-stick coating with soft surface feel.
> Thermoplastic with engineered limited shrinkage.
> Cooler activation temperature of 149°F-158°F
> Silk feel mask coating with smooth perforations 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:
> Thermoplastic with engineered limited shrinkage that results in a high but comfortable degree of patient immobilization.
> Very stable mask limits movement and patient rotation.
> Memory Effect allows the user to re-mold a finished mask as needed. This provides significant flexibility for modification during a patient treatment or simply to save on waste.
> Quick Release system allows fast and safe removal with high risk patients.
> Innovative integrated L-Profiles enable you to quickly and easily secure the mask to the Pelvicast base plate for a precise immobilization.

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.
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 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 setup 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 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.

An extensive range of Pelvicast masks are available to meet specific patient requirements and your immobilization preferences.
MammoRx Breastboard

- Narrow carbon fiber board
- Light weight board
- Ease of use
- Quick assembly
- Highly adaptable for patient comfort
- Optional items for head and neck treatment in tilted position
MammoRx® Carbon Fiber Breastboard

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

MammoRx®ci Carbon Fiber Breastboard Insert

MammoRx carbon fiber breastboards provide solutions that meet and exceed the changing needs of radiation therapists. Orfit offers two carbon fiber products: the standalone MammoRx breastboard, and the MammoRxci insert for Varian Exact Couch customers.

Because both boards use the same tilt-board design, setup information is transferable between systems. This allows you to use the standalone MammoRx system in a broad range of treatment or simulation environments and the MammoRxci insert in conjunction with Varian Exact Couch systems.

Both systems deliver precise immobilization for IMRT, enhanced setup reproducibility, and are compatible with Orfit thermoplastic masks.

Carbon Fiber Board Benefits

- Provide easy and effective reproduction of patient setup
- Enhance patient comfort through next-generation design improvements
- Thinner, stronger and lighter than acrylic systems
- Feature lower attenuation levels than acrylic systems

Art. No. CFB-1

Art. No. CFI-1

MammoRx® Patient Positioning Systems

Accurately establish and reproduce patient positions in radiation therapy.
Seamless Connection between MammoRx® ci Insert and Varian Exact™ Couch

Ongoing research and collaboration with radiation therapists led to the creation of the MammoRx ci carbon fiber breastboard insert. Designed for IMRT, this innovative board is the first of its kind to fit seamlessly in the Varian Exact Couch. You’ll never again need to place a standalone breastboard on a traditional treatment table. The MammoRx ci board features all the benefits of our standard MammoRx systems - in a thinner, lighter package - and can be left in the Varian Exact Couch for other treatment setups.

Benefits
> Fits precisely in the Varian Exact Couch
> Eliminates the need to move breastboard from counter to table
> Provides two locations for inserting upper-arm supports, improving flexibility in patient setup
> Comfortably lift and replace lightweight insert
> Easily adjusts to standard angles: 0, 5, 7.5, 10, 12.5, 15, 20 and 25 degrees
> Can be combined with Orfit thermoplastic masks for increased precision.

MammoRx® Carbon Fiber Breastboard

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

Benefits
> Fits through most small-bore CT units
> No metal components in CT scan areas
> Enables single-side and bilateral patient immobilization
> Single-handed trigger action enables quick and easy movement of the upper-arm support between six standard settings, providing faster setup times for patients
> Y-handle wrist support enhances comfort by allowing patients to grip the handle or rest their wrists in the saddle
> Unique slide-motion lock on both sides of the board prevents dislodging of the angle supports, eliminating risk of tilt-board collapse
> Can be combined with Orfit thermoplastic masks for increased precision.

Art. No. CFB-3

Built-in supports allow you to quickly achieve standard treatment angles of 0, 5, 7.5, 10, 12.5 and 15 degrees. Optional upper angle support bracket provides 20- and 25-degree treatment angles.
Additional Functionalities

The MammoRx breastboard allows for advanced patient immobilization with Efficast thermoplastic masks:

- 4-points mask for thorax immobilization
- 3-points head and neck masks for patients that have difficulties in breathing when lying flat.

Benefits

- Tilting of the breastboard facilitates the patient’s breathing.
- The mask increases the reproducibility and stability of the patient’s position.

MammoRx® Patient Positioning Systems

Breast High Precision Precuts

- Art. No. 33715/2MA 4-points thorax supine mask
- Art. No. 33716/2MA Medium
- Art. No. 33717/2MA Large

- Art. No. 35727/32MA 2-points breast mask - rectangular design
- Art. No. 35728/32MA 2-points breast mask - medium
- Art. No. 35729/32MA 2-points breast mask - large
## MammoRx® Patient Positioning Systems

### MammoRx Carbon Fiber Breastboard - Solution Bundles

<table>
<thead>
<tr>
<th>Standard Configuration</th>
<th>Art. No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
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<tbody>
<tr>
<td>Breastboard</td>
<td>CFB-1</td>
<td>MammoRx carbon fiber breastboard</td>
<td>1 pc.</td>
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<tr>
<td>Breastboard insert</td>
<td>CFI-1</td>
<td>MammoRx carbon fiber breastboard insert</td>
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<tr>
<td><strong>CFB-3 - Bilateral Arm Configuration</strong></td>
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<tr>
<td>Breastboard</td>
<td>CFB-1</td>
<td>MammoRx carbon fiber breastboard</td>
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<tr>
<td>Head support</td>
<td>CHB-1</td>
<td>Blue gel ring head holder</td>
<td>1 pc.</td>
</tr>
<tr>
<td>Arm support</td>
<td>CAS-2</td>
<td>Upper arm support: 17.5 degree</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>Wrist support</td>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>Bottom Stop</td>
<td>CBS-1</td>
<td>MammoRx bottom stop</td>
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<td><strong>CFB-4 - Bilateral Arm Support Configuration</strong></td>
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<tr>
<td>Head support</td>
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<td>Blue gel ring head holder</td>
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<tr>
<td>Arm support</td>
<td>CBA-1</td>
<td>Bilateral arm support board</td>
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<tr>
<td>Bottom stop</td>
<td>CBS-1</td>
<td>MammoRx bottom stop</td>
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<tr>
<td><strong>CFB-5 - Combination</strong></td>
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<tr>
<td>Arm support</td>
<td>CBA-1</td>
<td>Bilateral arm support board</td>
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<tr>
<td>Wrist support</td>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>Bottom stop</td>
<td>CBS-1</td>
<td>MammoRx bottom stop</td>
<td>1 pc.</td>
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</table>

### MammoRx Carbon Fiber Breastboard Insert – Solution Bundle

<table>
<thead>
<tr>
<th>CFI-5 - Combination</th>
<th>Art. No.</th>
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<td>CFI-1</td>
<td>MammoRx carbon fiber breastboard insert</td>
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</tr>
<tr>
<td>Head support</td>
<td>CHB-1</td>
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</tr>
<tr>
<td>Arm support</td>
<td>CBA-1</td>
<td>Bilateral arm support board</td>
<td>1 pc.</td>
</tr>
<tr>
<td>Wrist support</td>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>Bottom stop</td>
<td>CBS-1</td>
<td>MammoRx bottom stop indexing bar</td>
<td>1 pc.</td>
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</table>
MammoRx® Patient Positioning Systems - Accessories

**Accessories**

**Upper Arm Support Options - Swivel**
Unique design provides easy trigger action for adjusting upper arm positions. The support is constructed from carbon fiber and black glass-filled nylon to eliminate large amounts of metal components while providing a rigid support for the patient. Both 17.5 (Art. No. CAS-2) and 35-degree (Art. No. CAS-1) upper arm supports are available with a wrist support pad that can swivel.

**Upper Arm Support Options - Stationary**
Unique design provides easy trigger action for adjusting upper arm positions. The support is constructed from carbon fiber and black glass-filled nylon to eliminate large amounts of metal components while providing a rigid support for the patient. Both 17.5 (CAS-3) and 35-degree (CAS-4) upper arm supports are available with a stationary wrist support pad.

**Upper Angle Support**
Optional upper angle support provides 20- and 25-degree support for rare occasions when higher angles are required.

**MammoRx Bottom Stop**
Used with the MammoRx breastboard, the bottom stop eliminates patient slippage during treatment. Four positions are available. Placement correlates to the MammoRx Bottom Stop Indexing Bar for transition between MammoRx and Mammoth systems.

**MammoRx Bottom Stop Indexing Bar**
Indexes to existing Varian Exact Couch notches to eliminate patient slippage during treatment.

**Accessories**

**Single and Dual Wrist Support Options**
To maximize patient comfort, multiple wrist supports are available. Our unique Y-handle enables patients to either grip the device or rest their wrist in the saddle portion of the device. A single post and wrist pad are also available.

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

**Head Support Interfaces**
A blue gel ring head support or a round head cup can be attached directly to the MammoRx.

**Head Support Interfaces**
Interfaces are available for the Orfit High Precision Head Supports, Silverman and Timo Head Supports.

**MammoRx® Patient Positioning Systems - Accessories**

**CHA-1**
**CBS-1**
**CHS-1**
**CHT-1**

**CWS-1**
**CHP-1**
**CWP-1**

**CAS-1**
**CAS-2**
**CAS-3**
**CAS-4**

**CHO-1**
**CBA-1**

**CBB-1**

drivenbycare
Sagittilt
Prone Breast Solution

> Tilting the patient increases beam access to the ipsi-lateral breast

> The tilted position can relieve pressure on the ribs and contra-lateral breast

> All the positions of the supports are indexed

> When tilting the patient she is secured to the system by a thermoplastic hip mask

> Easy storage and transportation with the storage cart
Radiation therapy of breast cancer in prone position is an increasingly used treatment technique. Several publications, also recent ones, prove the dosimetric advantage of this technique. When treating a patient in the prone position the heart and lung tissue and the contra-lateral breast will be less affected.


“The prone treatment resulted in: improved dose coverage, better homogeneity, less volumes of over-dosage, reduced acute skin desquamation, a 3-fold decrease of moist desquamation, lower incidence of dermatitis, edema, pruritus, and pain, 2- to 6-fold reduction of grades 2-3 toxicity, lower ipsilateral lung and mean LAD dose.”


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


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


“The prone position has been shown to reduce skin reactions by eliminating skin folds.” “This position can reduce late toxicities by greatly reducing the amount of dose to critical organs.” “Dose homogeneity can be improved up to 1.2%.” “The prone position also has shown reduced intrafractional motion while having interfractional motion within tolerance.”

Treatment of the breast with the patient in prone position is perceived by many to be less comfortable and also less reproducible than the supine position. The Sagittilt Prone Breast Solution solves these issues.

When developing the Sagittilt we looked at those aspects that make the supine breast position comfortable and translated that into a prone immobilization device.
Sagittilt™
Features and Benefits

1. Tilting of the Patient

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

The advantage of tilting the entire length of the body along the sagittal axis is that it remains flat on the device.

The patient can be tilted from 0° to 10° with increments of 1 degree. One person only can perform the tilt.

2. High Reproducibility of Patient Position

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

The patient’s elbows are positioned in a cup shaped support structure, similar to what is used in supine breastboards. Once the elbows are positioned on Sagittilt, the position of the shoulders will also be reproducible for each session and the upper body will remain still during treatment.
A dedicated thermoplastic mask (33774/2MA/12M+N) for Sagittilt immobilizes the hips of the patient and keeps the patient in place in a secure way when tilting the system. Both the thermoplastic mask and the elbow support prevent the patient from sliding sideways when using the tilt function. There are 3 different positions for the thermoplastic mask. The mask is locked into the board by using 2 High Precision profiles, which is a patented technology by Orfit Industries.

The Sagittilt Prone Breast Solution is attached to the simulation and treatment couch by means of two dedicated 2-pin indexing bars, allowing to place it in a reproducible and safe way on most of the couch tops that are in use.
Sagittilt is the result of an innovative development process and a high-tech production method involving carbon fiber techniques from the aviation industry. Special attention was given to the design of the product with the purpose of making it patient and user friendly while taking up a minimum amount of space in a treatment or simulation room.

Clinical Publications Sagittilt Prone Breast Solution

> Cucchiaro, S. et al. (2014), Clinical Introduction of an all-in-class solution for prone breast hypofractionated SIB with multibeam IMRT, Radiotherapy & Oncology, Vol. 111, Supplement 1, p. 47
> Lakosi, F. et al. (2014), Hypofractionated whole prone breast RT using Sagittilt system: patient comfort, setup accuracy and acute toxicity, Radiotherapy & Oncology, Vol. 111, Supplement 1, p. 477

**Sagittilt™ Accessories**

Art. No. 33774/2MA/12MI+N
2-points hybrid hip mask

Art. No. 32070/14
Sanitary cover (package of 50 pieces)
Both a short and a long version of the system are available.

Both a mechanical and pneumatic abdominal pressure system are available.

The abdominal pressure can be easily released in case of emergency by the safety mechanism that locks the screw.

Two different types of arm immobilization can be used: AIO type and MammoRx type.

The base plates can also be used for non-SBRT treatments.

MRI compatible base plates.
The SBRT Solution is developed in collaboration with users worldwide via existing SBRT studies, products available on the market and on-site testing to provide a system which combines high technology, ease of use and precision to meet current and future demands.

The SBRT Solution provides a precise, stable and easy to use setup that allows to apply the most effective radiation treatment method for thoracic and abdominal tumors.

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

- Long vs short base plate
- Arm setup with cushions vs MammoRx arm supports
- Mechanical vs pneumatic abdominal compression system

The MammoRx arm supports and hand grips are compatible with the SBRT Solution.

The Arm Rest Cushion can be lifted with the use of an Elevation Cushion. There is a cranial and a caudal position for these cushions.

Various indexed positions are available for the Hand Grips for optimal comfort and reproducibility.
The mechanical pressure system consists of a bridge with a pressure plate and a screw. There is a low and a high version of the bridge.

Abdominal Compression (Pneumatic Pressure Belt System)

Abdominal compression can also be created with a pressure belt with inflatable air bladders.
Various sizes of vacuum bags can be indexed both on the Long and the Short Base Plate.

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

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

Thermoplastic Immobilization Masks

Art. No. 33724/32MA
6-points thorax and abdomen supine mask

Art. No. 33683/32MA
4-points shoulder and thorax mask for SBRT

Art. No. 35784/32MA
4-points pelvic mask - small

Art. No. 35787/32MA
4-points pelvic mask - medium

Art. No. 35784
4-points pelvic mask - large
<table>
<thead>
<tr>
<th>Package 1 SBRT Long Base Plate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art. No.</strong> 32317/1</td>
<td>Long SBRT Base Plate</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/2</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/10</td>
<td>Pressure system bridge - high - variable height</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/4</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/6</td>
<td>Arm rest support plate</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/8</td>
<td>Arm rest cushion</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/11</td>
<td>Arm rest elevation cushion</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32015/9/2</td>
<td>Grip pole long - 2 pcs.</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32015/9/3</td>
<td>Grip pole short - 2 pcs.</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 35758/MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Package 2 SBRT Long Base Plate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art. No.</strong> 32317/1</td>
<td>Pressure belt with manual pump</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/9</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/4</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/6</td>
<td>Arm rest support plate</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/8</td>
<td>Arm rest cushion</td>
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<tr>
<td><strong>Art. No.</strong> 32317/11</td>
<td>Arm rest elevation cushion</td>
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<td><strong>Art. No.</strong> 32015/9/3</td>
<td>Grip pole short - 2 pcs.</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 35758/MD</td>
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<td><strong>Art. No.</strong> 32317/1</td>
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<td><strong>Art. No.</strong> 32317/2</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td><strong>Art. No.</strong> 32317/10</td>
<td>Pressure system bridge - high - variable height</td>
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<tr>
<td><strong>Art. No.</strong> 32317/4</td>
<td>Knee support - indexed</td>
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<tr>
<td><strong>Art. No.</strong> 32317/5</td>
<td>Feet support - indexed</td>
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<td><strong>Art. No.</strong> 32317/13</td>
<td>Arm rest support plate for upper arm supports and wrist supports</td>
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<tr>
<td><strong>Art. No.</strong> CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
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<tr>
<td><strong>Art. No.</strong> CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
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<tr>
<td><strong>Art. No.</strong> CWS-1</td>
<td>Wrist support Y handle</td>
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<tr>
<td><strong>Art. No.</strong> CWS-1</td>
<td>Wrist Support Y Handle</td>
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<td><strong>Art. No.</strong> 35758/MD</td>
<td>Head Support in PU Foam - Model 1 - with lateral neck flaps</td>
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<td><strong>Art. No.</strong> 32317/1</td>
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<td><strong>Art. No.</strong> 35758/MD</td>
<td>Head Support in PU Foam - Model 1 - with lateral neck flaps</td>
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### Package 1
**SBRT Short Base Plate**

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<td>Arm rest support plate</td>
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<td>Arm rest cushion</td>
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<td>32317/11</td>
<td>Arm rest elevation cushion</td>
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<td>Grip pole long - 2pcs</td>
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<tr>
<td>32015/9/3</td>
<td>Grip pole short - 2pcs</td>
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<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
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### Package 2
**SBRT Short Base Plate**

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<td>Knee support - indexed</td>
</tr>
<tr>
<td>32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td>32317/6</td>
<td>Arm rest support plate</td>
</tr>
<tr>
<td>32317/8</td>
<td>Arm rest cushion</td>
</tr>
<tr>
<td>32317/11</td>
<td>Arm rest elevation cushion</td>
</tr>
<tr>
<td>32015/9/2</td>
<td>Grip pole long - 2pcs</td>
</tr>
<tr>
<td>32015/9/3</td>
<td>Grip pole short - 2pcs</td>
</tr>
<tr>
<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>

### Package 3
**SBRT Short Base Plate**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32317/14</td>
<td>Short SBRT base plate</td>
</tr>
<tr>
<td>32317/2</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td>32317/10</td>
<td>Pressure system bridge - high - variable height</td>
</tr>
<tr>
<td>32317/4</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td>32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td>32317/15</td>
<td>Arm rest support plate for upper arm supports and wrist supports</td>
</tr>
<tr>
<td>CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
</tr>
<tr>
<td>CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
</tr>
<tr>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
</tr>
<tr>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
</tr>
<tr>
<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>

### Package 4
**SBRT Short Base Plate**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32317/14</td>
<td>Short SBRT base plate</td>
</tr>
<tr>
<td>32317/9</td>
<td>Pressure system bridge - low - variable height</td>
</tr>
<tr>
<td>32317/10</td>
<td>Pressure system bridge - high - variable height</td>
</tr>
<tr>
<td>32317/4</td>
<td>Knee support - indexed</td>
</tr>
<tr>
<td>32317/5</td>
<td>Feet support - indexed</td>
</tr>
<tr>
<td>32317/15</td>
<td>Arm rest support plate for upper arm supports and wrist supports</td>
</tr>
<tr>
<td>CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
</tr>
<tr>
<td>CAS-2</td>
<td>Upper arm support - 17.5 degrees</td>
</tr>
<tr>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
</tr>
<tr>
<td>CWS-1</td>
<td>Wrist support: Y handle</td>
</tr>
<tr>
<td>35758-MD</td>
<td>Head support in PU foam - model 1 - with lateral neck flaps</td>
</tr>
</tbody>
</table>
Extremities Solution

- Standardized system for the immobilization of arms and legs
- Compatible with push-pin masks that can be placed in various locations
- Masks come as a precut shape for the hand, elbow, foot and knee
- Detachable elevation bridge to lift one leg so the other leg is not positioned in the treatment field
- Comfort cushions that can give additional support for the hand, elbow, foot and knee
- Possible to place the base plate out of center for arm positioning away from the abdomen
The Extremities Solution

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

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

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

Hardware

| Art. No. 32103 |
| Set |

Base plate

Leg support
The Extremities Solution

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>35792/32MA</td>
<td>3-points foot mask</td>
</tr>
<tr>
<td>35793/32MA</td>
<td>2-points knee mask</td>
</tr>
<tr>
<td>35794/32MI</td>
<td>2-points hand mask</td>
</tr>
<tr>
<td>35795/32MI</td>
<td>2-points elbow mask - straight</td>
</tr>
<tr>
<td>35796/32MI</td>
<td>4-points elbow mask - curved</td>
</tr>
</tbody>
</table>
Vacuum Bags

> Available in different sizes
> Narrow sizes are easy to combine with a thermoplastic thorax or pelvic mask
> The vacuum bags can be used on various Orfit base plates with the indexing bar
> The vacuum bag will maintain its shape up to 6 weeks
The combination of Orfit Vacuum Bag Cushions and Efficast High Precision Frameless masks enables you to achieve a highly customized immobilization of your patient with high precision, excellent reproducibility and great comfort for the patient.

The Orfit vacuum bags are more narrow and longer than conventional vacuum bags. This ensures a much more intimate contouring to the patient’s anatomy. The head and neck bags are designed for specific use in combination with the Orfit 3D shaped Head Supports and the Orfit hybrid masks to offer an unsurpassed high precision immobilization that limits patient movement to 1.5 mm and less.

The half body bags for adults and the pediatric bags have a narrow shape to easily fit on the All-in-One base plate in combination with an Efficast thermoplastic mask.

The Orfit vacuum bags are made from radio-translucent materials that will provide artefact free image clarity with minimal beam attenuation. A special coated nylon bag material in combination with the thin fill helps to ensure intimate mold definition. The bags are easy to clean and are designed to withstand the rough handling conditions of a busy Radiation Oncology department.

A molded Orfit vacuum bag will maintain its integrity during the course of treatment (up to six weeks), which ensures precise and reproducible patient positioning from imaging through the entire treatment process.

The Orfit vac bags are compatible for use with CT, MRI (when used with Orfit MRI compatible base plates), PET/CT, SPECT and Ultrasound imaging modalities.

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

> Custom Individual Patient Head Support:
The small size Orfit bag (art. no. 18055) when used in combination with the Orfit 3D Head Support enables you to create a custom head support mold that eliminates all gaps in the neck area while providing unmatched patient comfort.

> Custom Thoracic Immobilization/Positioning:
The half body Orfit bag (art. no. 18056) is perfect when you need to create a customized thoracic immobilization. The half-body bag is compatible for use with the Orfit All-in-One Base Plate and SBRT Base Plates.

> Custom Pediatric CNS Immobilization/Positioning:
The Pediatric full-body Orfit bag (art. no. 18057) is designed specifically for CNS treatment.

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

> Indexing Bar: (art. no. 18059) You can easily index the vac bags directly to the couch top using a two pin bar.

> Arm Rest Adapter Cushion: (art. no. 29036) Provides increased comfort and support by ensuring a smooth transition from thorax to shoulders and arms.

> Patient ID Labels: (art. no. 18065) The labels are easily attached to Orfit vac bags using a clip method.

> Vacuum Pump: For quick and easy use with Orfit vac bags.
Vacuum Bags

Custom Types

Art. No. 18055
Individual head support (vacuum bag)
280 x 410 mm / 11"(w) x 16"(l) 0,9 liter

Art. No. 18056
AIO vacuum bag half body - adult
482 x 900 mm / 19"(w) x 35,5"(l)
16 liter

Art. No. 18057
AIO vacuum bag full body - pediatric
340 x 1240 mm / 13,5"(w) x 49"(l)
16 liter

Vacuum Bag - Accessories

Hoses and Connectors

Art. No. 18053
Hose connector for hose ID4

Art. No. 18054
Transparent hose ID4 (2 meters)

Art. No. 18058
Vacuum pump with hose, hose connector and cable

Identification

Art. No. 18055
Patient ID tag for vacuum bag (pack of 20 pieces)

Art. No. 18056
Clip for ID tag (pack of 5 pieces)

Pumps

Art. No. 18058
Vacuum pump with hose, hose connector and cable

Art. No. 18059
Indexing bar

Indexing Devices

Art. No. 29036
AIO arm rest adapter for use with vacuum bag

Additional Vacuum Bags (Not available in The Netherlands)

Art. No.
18068
18069
18070
18072
18079
18080
18081
18082
Vacuum bag 700 x 1825 mm / 50 liter
Vacuum bag 1130 x 1375 mm / 51 liter - T-shape
Vacuum bag 850 x 1825 mm / 75 liter
Vacuum bag 900 x 2325 mm / 117 liter
Vacuum bag 700 x 1625 mm / 45 liter
Vacuum bag 750 x 1025 mm / 35 liter
Vacuum bag 700 x 1625 mm / 58 liter
Vacuum bag 850 x 1540 mm / 53 liter

Side Panels for moulding

Art. No. 32030
Side panels for individual cushions (4 pcs.)
Accessories

> Cyberknife Full Body Cushion
> Unique Comfort Cushions
> Water Bath
> Storage Solutions
> Bolus
> Fixation Devices
The full body cushion for Cyberknife Couch Top is designed for spinal and thorax treatment. The patient is positioned supine on the cushion with the arms along the side of the body.

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

This allows the use of lateral fields to radiate the spine and thorax without the arms being located in the treatment field.
**Patient Support Cushions**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32005/2</td>
<td>Trunckal cushion</td>
<td>800 x 400 x 20 mm</td>
</tr>
<tr>
<td>32005/4</td>
<td>Small block</td>
<td>200 x 200 x 40 mm</td>
</tr>
<tr>
<td>32005/5</td>
<td>Medium block</td>
<td>200 x 200 x 60 mm</td>
</tr>
<tr>
<td>32005/6</td>
<td>Large block</td>
<td>200 x 200 x 100 mm</td>
</tr>
<tr>
<td>32005/8</td>
<td>Wide wedge</td>
<td>400 x 250 x 100 mm</td>
</tr>
<tr>
<td>32005/8A</td>
<td>Small wedge</td>
<td>200 x 250 x 100 mm</td>
</tr>
</tbody>
</table>

**Leg support**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32005/10</td>
<td>Leg support</td>
<td>400 x 400 mm</td>
</tr>
</tbody>
</table>

**Foot support**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32005/11</td>
<td>Foot support</td>
<td>400 x 150 x 200 mm</td>
</tr>
</tbody>
</table>

**Cylindrical knee support**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32005/14</td>
<td>Cylindrical knee support</td>
<td>544 x D200 mm</td>
</tr>
</tbody>
</table>

**Half cylindrical knee support**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32005/15</td>
<td>Half cylindrical knee support</td>
<td>544 x R100/50 mm</td>
</tr>
</tbody>
</table>

**Wide wedge**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32006-V2</td>
<td>Wide wedge</td>
<td>400 x 250 x 100 mm</td>
</tr>
</tbody>
</table>

**Set of 10 comfort cushions**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32006-V2</td>
<td>Set of 10 comfort cushions</td>
</tr>
</tbody>
</table>

**Storage Solutions**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32044</td>
<td>Storage stand for base plates</td>
</tr>
<tr>
<td>29099</td>
<td>Wall mount storage stand for base plates</td>
</tr>
</tbody>
</table>

**Digital Stainless Steel Waterbath - Extra Large**

- Interior dimensions: 26” (L) x 22” (W) x 5” (H).
- Extra large tank handles the largest size thermoplastic masks and sheets.
- Overall dimensions: 33” (L) x 26” (W) x 8” (H).
- Digital control ensures precise water bath temperatures within ±1 degree.
- Hinged lid opening in four positions.
- Bright LED Display easy to use.

**Stainless Steel Waterbath - Large: Analog Controls**

- Interior dimensions: 24 1/2” (L) x 18 1/2” (W) x 5” (H).
- Accommodates large size thermoplastic masks and sheets.
- Overall dimensions: 28 1/2” (L) x 21” (W) x 7” (H).
- Hinged stainless steel split-lid is designed to open completely or to one side with one hand leaving the other hand free.
- Dual high/low thermostatic temperature controls.
The thermoplastic bolus material, which is available in sheets and pellets, is a specially formulated, rigid thermoplastic with a low melting temperature. It is very easy to mold and can be placed on thermoplastic masks. After heating, it also sticks to itself, which makes it possible to make thicker bolus sheets if needed.

### Bolus Material

**Sheets Beige**
- Art. No. 8336.SO1/R/53
  - 10 cm x 10 cm x 5 mm
- Art. No. 8336.SO1/R/58
  - 15 cm x 15 cm x 5 mm
- Art. No. 8336.SO1/R/59
  - 20 cm x 20 cm x 5 mm
- Art. No. 8336.SO1/R/60
  - 30 cm x 30 cm x 5 mm
- Art. No. 8333.SO1/R
  - 45 cm x 60 cm x 2 mm

**Sheets White**
- Art. No. 8313N.SO1/R
  - 22.5 cm x 20 cm x 2 mm
- Art. No. 8333N.SO1/R
  - 45 cm x 60 cm x 2 mm

**Pellets**
- Art. No. 31882111
  - Bag of 500g

### Fixation Devices

- Art. No. 32154
  - 2-pin indexing bar for Exact* couches
- Art. No. 32166
  - 2-pin indexing bar for Exact* couches MRI compatible
- Art. No. 32191
  - 2-pin indexing bar for iBEAM* couches MRI compatible
- Art. No. 32165
  - 2-pin bar for Prodigy couches - 53 cm MRI compatible
- Art. No. 32190
  - 2-pin bar for Pinpoint couches - 50 cm MRI compatible

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

Other fixation devices can be found on the Orfit website www.orfit.com/en/fixation-devices
### Dosimetric Chart

<table>
<thead>
<tr>
<th>Product reference</th>
<th>Density (g/cm³)</th>
<th>Measured values</th>
<th>Skin build-up (mm H₂O equiv.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6MV (%)</td>
<td>15MV (%)</td>
</tr>
<tr>
<td>Thermoplastic Mask Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orfit Classic 2 mm maxi</td>
<td>1.13</td>
<td>0.40</td>
<td>0.20</td>
</tr>
<tr>
<td>Efficast 1.6 mm micro</td>
<td>1.13</td>
<td>0.40</td>
<td>0.20</td>
</tr>
<tr>
<td>Efficast 2 mm maxi</td>
<td>1.13</td>
<td>0.40</td>
<td>0.20</td>
</tr>
<tr>
<td>Efficast 2 mm micro</td>
<td>1.13</td>
<td>0.45</td>
<td>0.25</td>
</tr>
<tr>
<td>Efficast 2.4 mm maxi</td>
<td>1.13</td>
<td>0.50</td>
<td>0.35</td>
</tr>
<tr>
<td>Efficast 3.2 mm maxi</td>
<td>1.13</td>
<td>0.70</td>
<td>0.45</td>
</tr>
<tr>
<td>Nanor 1.2 mm micro +</td>
<td>1.17</td>
<td>0.32</td>
<td>0.25</td>
</tr>
<tr>
<td>Nanor 1.6 mm micro +</td>
<td>1.17</td>
<td>0.46</td>
<td>0.32</td>
</tr>
<tr>
<td>U-Plast 1.6 mm micro</td>
<td>1.13</td>
<td>0.40</td>
<td>0.20</td>
</tr>
<tr>
<td>U-Plast 2 mm maxi</td>
<td>1.13</td>
<td>0.40</td>
<td>0.20</td>
</tr>
<tr>
<td>U-Plast 2.4 mm maxi</td>
<td>1.13</td>
<td>0.50</td>
<td>0.35</td>
</tr>
<tr>
<td>U-Plast 3.2 mm maxi</td>
<td>1.13</td>
<td>0.70</td>
<td>0.45</td>
</tr>
<tr>
<td>Hybrid (Efficast 2MA, Orfitlight 16MI)</td>
<td>NA</td>
<td>0.65</td>
<td>0.45</td>
</tr>
<tr>
<td>Hybrid (Efficast 16MI, Nanor 12MI+)</td>
<td>NA</td>
<td>0.54</td>
<td>0.34</td>
</tr>
<tr>
<td>Bolus (per mm of material)</td>
<td>1.13</td>
<td>0.28</td>
<td>0.20</td>
</tr>
<tr>
<td>HP L-shaped profiles (ABS)</td>
<td>1.13</td>
<td>0.73</td>
<td>0.53</td>
</tr>
</tbody>
</table>

**Positioning Hardware**

<table>
<thead>
<tr>
<th>Base plates</th>
<th>Density (g/cm³)</th>
<th>Measured values</th>
<th>Skin build-up (mm H₂O equiv.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 mm thick in carbon fiber laminate - 32110, 32113, 32140</td>
<td>NA</td>
<td>0.50</td>
<td>0.40</td>
</tr>
<tr>
<td>12 mm thick in high pressure laminate - 35751N, 35754/6N</td>
<td>1.40</td>
<td>4.00</td>
<td>4.00</td>
</tr>
<tr>
<td>30 mm thick in carbon fiber laminate - 32007, 32150 (also the NDKS and PEF versions)</td>
<td>NA</td>
<td>1.60</td>
<td>1.20</td>
</tr>
<tr>
<td>30 mm thick AIO in high pressure laminate - 32104</td>
<td>1.40</td>
<td>4.00</td>
<td>4.00</td>
</tr>
<tr>
<td>12 mm thick in polycarbonate - 32113, 32117, 32097, 32088, 32089</td>
<td>1.20</td>
<td>4.20</td>
<td>3.40</td>
</tr>
</tbody>
</table>

**Head supports**

<table>
<thead>
<tr>
<th>Low density range (in %/cm foam)</th>
<th>Density (g/cm³)</th>
<th>Measured values</th>
<th>Skin build-up (mm H₂O equiv.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.03</td>
<td>0.48</td>
<td>0.25</td>
<td>0.95</td>
</tr>
<tr>
<td>0.22</td>
<td>0.57</td>
<td>0.46</td>
<td>1.38</td>
</tr>
</tbody>
</table>

**Blocks and wedges**

<table>
<thead>
<tr>
<th>Density (g/cm³)</th>
<th>Measured values</th>
<th>Skin build-up (mm H₂O equiv.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.03</td>
<td>0.12</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Vacuum Bags**

<table>
<thead>
<tr>
<th>Density (g/cm³)</th>
<th>Measured values</th>
<th>Skin build-up (mm H₂O equiv.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.20</td>
<td>0.30</td>
<td>0.90</td>
</tr>
<tr>
<td>2.90</td>
<td>2.10</td>
<td>9.00</td>
</tr>
</tbody>
</table>

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