This Radiation Oncology Accessory Catalog offers our customers a selection of key product accessories. Elekta will continue to evolve and expand this Accessory catalog by adding more and more products to support your needs.

Please review the product accessories within the catalog or view the latest product accessories at www.elekta.com/shop. Ordering product accessories is easy once you are registered on our webshop, so please register at your earliest convenience.

We look forward to providing you an easy way to view and order Radiation Oncology Product Accessories for your Treatment System.

All of our products follow an open system architecture and are available for different vendors’ systems to enhance the clinical workflow of our customers.
Motion Management

DynaTRAC
Active Breathing Coordinator
Keep an eye on your patient

Precise patient repositioning and real time position monitoring during every treatment session

Increases accuracy and precision during initial patient setup

Enables increased confidence with real time patient monitoring

Safe and intuitive software-guided patient repositioning (via color coding and arrows)

Ideal for inter- and intra-treatment repositioning

DynaTRAC
Precision patient monitoring

One of the biggest challenges in terms of managing dynamics in radiation therapy treatments such as IMRT, SRS, IGRT and Adaptive RT is the patient:

- The patient has to be repositioned on the treatment table according to the CT setup, often several times
- The patient moves (in-)voluntarily on the treatment table.

DynaTRAC™, an infrared based optical tracking system, enables fast, accurate and safe patient positioning and monitoring. DynaTRAC increases confidence in both inter- and intra-treatment accuracy.

**Patient Positioning**

This module is responsible for the calculation of the patient’s coordinates based on information provided by the three cameras used to identify the positions of the patient’s markers.

Current position and planned position* are compared in real time and are presented in an intuitive and user-friendly display.

The potential deviation can be corrected (color coding and directional arrows make this approach safe and easy).

**Patient Monitoring**

A major challenge in accurate radiation therapy delivery is the potential for patient movement during the treatment fraction – especially if no immobilization or positioning devices are being used.

With DynaTRAC the user is enabled to define a tolerance-level (in mm) for potential movement. During the whole treatment DynaTRAC is monitoring the current patient position compared to the planned position. Should a deviation occur DynaTRAC immediately displays an obvious warning to the user that the patient is out of tolerance, so the user can decide if to interrupt or proceed.

* The planned position can be imported into DynaTRAC software via DICOM RT from the TPS. This optional feature requires ERGO™ Localizer Software.
DynaTRAC Workstation

The DynaTRAC Workstation comes on a trolley, and the required software is pre-installed.

DynaTRAC – basic components

The DynaTRAC System includes all necessary components to enable a precise patient repositioning and real-time monitoring during every treatment (see details setup on next page).

**DynaTRAC System**

- DynaTRAC Workstation with pre-installed software
- DynaTRAC Camera System
- DynaTRAC Mounting Camera Bar
- DynaTRAC Camera Calibration Device
- DynaTRAC Isocenter Calibration Device
- DynaTRAC Patient Repositioning Spheres (10 pcs.)
- DynaTRAC Trolley

**DynaTRAC System for CT / Linac Room**

This system is to equip a CT or a second linac with an additional DynaTRAC System.

- DynaTRAC Workstation with pre-installed software
- DynaTRAC Camera System
- DynaTRAC Mounting Camera Bar
- DynaTRAC Camera Calibration Device
- DynaTRAC Isocenter Calibration Tool
- DynaTRAC Camera Calibration Device
- DynaTRAC Patient Repositioning Spheres (10 pcs.)

**ERGO++ Localizer Software**

The above configurations can optionally be equipped with the ERGO++ Localizer Software to enable DynaTRAC software to import the planned position via DICOM RT from the TPS.

**DynaTRAC Patient Repositioning Spheres (10 pcs.)**

The Patient Repositioning Spheres are for frame-less patient positioning. The spheres are placed on the patient.

**DynaTRAC Camera System**

The DynaTRAC Camera System is composed of three infrared progressive scan cameras designed to detect the spheres on the patient, the frame and the calibration tools.

**DynaTRAC Camera Calibration Device**

The Calibration Device is for calibrating the DynaTRAC Camera System.

**DynaTRAC Isocenter Calibration Tool**

The Isocenter Calibration Tool is for calibrating the isocenter and for the daily QA check.

**DynaTRAC Spheres Rod Set (5 pcs.)**

This is a set of spheres for stereotactic frame-based patient positioning. Set composed of retro-reflective spheres and rods, for stereotactic frames localization.

**DynaTRAC Spheres Set (10 pcs.)**

Set of spare retro-reflective spheres for the DynaTRAC tools and trackers.

**DynaTRAC 4 Spheres Tracker**

The DynaTRAC 4 Spheres Tracker is a special localizer enabling six degrees of freedom positioning and orientation.

**Adjustable Pendant LCD Touch Screen**

The Adjustable Pendant LCD Touch Screen is an option to enable easier use of the DynaTRAC Software.

**DynaTRAC Workstation**

The DynaTRAC Workstation comes on a trolley, and the required software is pre-installed.
The primary aim of radiation therapy treatments is to deliver an optimal dose to the target volume whilst minimizing dose to the surrounding normal structures. Although increasingly complex plans are being employed to achieve this clinical goal, there remain a number of challenges posed by the inaccuracies of treating patients, where tumors and critical structures are constantly moving and adapting with normal physiological functions.

Firstly the respiratory cycle of the patient results in large inaccuracies being introduced into both the planning and delivery of radiation treatment, especially in the abdominal and thoracic regions. Secondly, the anatomical positioning of critical structures relative to the target volume can be such that the prescribed dose cannot be delivered without an unacceptable volume of critical structure being irradiated, such as the heart for left-sided breast treatments.

Various methods have been designed to gain control of respiratory motion. However the best clinical solution will be able to easily cope with a number of unique clinical scenarios, such as applying simple and efficient breath holds at an applicable threshold level.

The Elekta solution for managing the challenges outlined above is Active Breathing Coordinator™.

Active Breathing Coordinator is a purpose designed solution enabling accurate and reproducible breath holds to be repeatedly applied. It allows clinicians to pause a patient’s breathing at a precisely indicated volume and co-ordinate treatment delivery, or imaging with this pause.

Active Breathing Coordinator adds precision and repeatability to the well-conceived concept of deep inspiration breath hold. The system is entirely portable, allowing it to be used in any treatment or imaging room.

Active Breathing Coordinator with simulation and/or CT simulation, provides enhanced data with which to plan more precise treatments.

Safety and reproducibly applies assisted breath-holds, responding to a number of clinical challenges

Provides improved image quality due to immobilization of patients respiratory cycle and anatomy

Can significantly reduce the cardiac volume within a left sided breast tangential field

Portable, ensuring efficient use of resources

Compatible with use in any treatment, simulation or imaging room
The Active Breathing Coordinator provides all features required to implement a breath-holding technique within the clinical environment. This system is stand-alone and can be easily utilized with a range of linear accelerators and CT scanners.

### ABC Full System

<table>
<thead>
<tr>
<th>TRT 0361 consisting of</th>
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</thead>
<tbody>
<tr>
<td>Control Computer with Control Software installed</td>
<td></td>
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<tr>
<td>Flat Panel Patient Monitor</td>
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<tr>
<td>CYBEX Transmitter/Receiver</td>
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<tr>
<td>Transducer (pick-up assembly)</td>
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<tr>
<td>Transducer (turbine)</td>
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<tr>
<td>Balloon Valve</td>
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<tr>
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<tr>
<td>ABC Cart System</td>
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<tr>
<td>CAT 5 LAN Cable (please state required length in your order)</td>
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### ABC Intermediate System

The Intermediate ABC system does not include the Control Laptop and Flat Panel Patient Monitor.

<table>
<thead>
<tr>
<th>TRT 0367 consisting of</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ABC Controller</td>
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<tr>
<td>Software</td>
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</tbody>
</table>

### ABC Minimum System

The Minimum ABC system does not include the Control Laptop, Flat Panel Patient Monitor, CYBEX Transmitter/Receiver, Mouthpiece Kit (Set of 40), ABC Cart System and CAT 5 LAN cable.

<table>
<thead>
<tr>
<th>TRT 0368 consisting of</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>ABC Control Module</td>
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<tr>
<td>Software</td>
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<td>Transducer (pick-up assembly)</td>
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### ABC R2.0 Full Upgrade Kit

This upgrade allows customers installed with Active Breathing Coordinator R1.02 to obtain the features included in R2.0. It consists of the following components and benefits:

**Hardware**
- Modified connection port on the mirror support system supports the Transducer turbine and pickup assembly, and minimizes strain on the transducer cable.
- Color coding kit allows the user to identify the component parts of the respiratory system, to aid easy identification during assembly/disassembly.
- Higher specification laptop with Windows XP, offering a more stable platform and ease of data.

**Software**
- Increased response time of the balloon valve, thereby improving the threshold accuracy capture.
- New user front end to allow for easier navigation and selection of control parameters.
- New record and pause functionality allowing specific selection of data captured in each session.
- New tools to allow retrospective analysis including:
  - View current session traces
  - Import up to 5 previous session traces
  - Align respiratory traces to specific breath-hold’s
  - Manipulation of zoom, pan and reset tools.
  - Volume and time measurement tools
- New format for Session History and Output File viewing.

### ABC R2.0 Basic Upgrade Kit

This upgrade kit does not include the laptop computer. All other components and features are the same as for the ABC R2.0 Full Upgrade Kit.

### ABC Minimum System

The Minimum ABC system does not include the Control Laptop, Flat Panel Patient Monitor, CYBEX Transmitter/Receiver, Mouthpiece Kit (Set of 40), ABC Cart System and CAT 5 LAN cable.

### ABC Intermediate System

The Intermediate ABC system does not include the Control Laptop and Flat Panel Patient Monitor.

### ABC Full System

The Active Breathing Coordinator provides all features required to implement a breath-holding technique within the clinical environment. This system is stand-alone and can be easily utilized with a range of linear accelerators and CT scanners.

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</table>
Robotic Positioning

HexaPOD evo RT System
The HexaPOD™ evo RT system is the next generation robotic patient-positioning platform with six degrees of freedom. Incorporating all the well known features of the precursor HexaPOD RT CouchTop with greatly improved patient access and clearance aperture, HexaPOD evo RT system is a true evolution in vision guided patient positioning. Further, a reduction in height of 13 cm (5,12 inches) ensures convenient loading and unloading of the patient.

The HexaPOD evo RT system guided by an infrared-camera enables sub-millimeter patient positioning accuracy in six degrees of freedom, improving clinical workflow and clinical confidence. The system corrects translational errors (x, y, z), as well as all rotational errors (roll, pitch and yaw).

Accurate and remote geometric corrections of any misalignments detected by state-of-the-art image guidance systems are enabled by the HexaPOD evo RT system, thereby closing the gap in the 6DOF (Degrees Of Freedom) IMRT and IGRT localization and tumor targeting chain. 6DOF facilitates IGRT guided SRT by simplifying corrections for rotational misalignment and changes in anatomy.

HexaPOD evo RT CouchTop offers improved speed of movement and a newly designed handheld controller and iGUIDE® tracking system with simplified control. The tracking system is composed of the iGUIDE software and a new generation infrared camera system. The tracking system aligns the patient to the defined isocenter coordinates or to the latest coordinates entered in the software. This significantly aids patient positioning.

The new HexaPOD evo RT system further simplifies workflow by providing a physical rotation point at the tumor isocenter. The physical rotation point has been shifted longitudinal to the head end of the couchtop. This repositioning of the rotation point also facilitates faster and easier system movements.

The newest generation of homogeneous carbon fiber couchtop, based on the iBEAM® evo Couchtop, has also been integrated into the HexaPOD evo RT system. It is completely constructed from carbon fiber, making it ideal for imaging. All fixation points for the extensions are made out of solid carbon fiber further reducing the risk of image artifacts and guaranteeing brilliant image quality for IMRT, IGRT and VMAT.
HexaPOD evo RT System

HexaPOD evo RT System – basic components

The HexaPOD evo RT CouchTop is only compatible with the iGUIDE System. The robotic couchtop can be easily connected to the Elekta Precise table. The Precise table can be ordered with the necessary integrated cables.  

HexaPOD evo RT System – configuration

<table>
<thead>
<tr>
<th>Component</th>
<th>iGUIDE Terminal</th>
<th>Universal Camera Mounting</th>
<th>iGUIDE Tracking System</th>
</tr>
</thead>
<tbody>
<tr>
<td>iBEAM evo Extension H&amp;N</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>iBEAM evo Extension 650</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iBEAM Indexing Bars</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HexaPOD evo Module with homogeneous carbon fiber couchtop</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>EnableSwitch Board</td>
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</tbody>
</table>

HexaPOD evo RT System specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of linear and angular motion</td>
<td>± 40 mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 mm</td>
</tr>
<tr>
<td>Moving Speed</td>
<td>up to 16 mm/sec</td>
</tr>
<tr>
<td>System accuracy (translation)</td>
<td>± 0.5 mm</td>
</tr>
<tr>
<td>System accuracy (rotation)</td>
<td>± 0.5°</td>
</tr>
</tbody>
</table>

Couchtop specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Attenuation @ 6 MV</th>
<th>Attenuation @ 10 MV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Couchtop</td>
<td>2.4%</td>
<td>1.9%</td>
</tr>
<tr>
<td>Extension 650</td>
<td>2.4%</td>
<td>1.9%</td>
</tr>
<tr>
<td>Extension H&amp;N</td>
<td>1.5%</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

Phantom: PMMA
Field size: 9.6 x 10.4 cm
SSD 95.2 cm; d = 4.8 cm
PTW Multidose

| RMS: <0.1 mm | 95% CI: 0.5 mm | Max error: <1.0 mm |
| RMS: <0.1°  | 95% CI: 0.1°  | Max error: <0.2°  |
**HexaPOD evo RT System – basic components**

**IGUIDE Reference Frame**
The IGUIDE Reference Frame carries infrared markers which are constantly monitored by the IGUIDE Tracking System for validation of the patient position.

**Reference Frame Bottom Plate**
The Reference Frame Bottom Plates enable a safe storing of the IGUIDE Reference frame.

**IGUIDE Tracking System**
The IGUIDE Tracking System detects the position of the infrared markers on the IGUIDE Reference Frame to move the HexaPOD evo CouchTop into the exact position.

**iBEAM evo Extension 415**
The iBEAM evo Extension 415 is designed to support the patients head and neck region and extends off the end of the couchtop by 415 mm.

**iBEAM evo ESARTE Adapter**
Allows mounting of the Elekta Esarte® Frame.

**iBEAM evo Couch Adapter**
Allows mounting of the BrainLAB Couchmount System for Varian Exact. Check compatibility with Elekta Precise PSS with your local Elekta sales representative.

**Polaris Accuracy Assessment Kit**
The Polaris Accuracy Assessment Kit is a service tool for calibration of the IGUIDE infrared tracking system.

**iBEAM evo Removable Rails EP**
The removable accessory rails are positioned along the superior lateral area of the couchtop. They are designed to be simply and easily removed between treatments.

**EnableSwitch Board**
The EnableSwitch Board is located in the control room and enables the movement of the HexaPOD evo CouchTop when pushing the two “Enable” buttons.

**Handheld Controller**
The Handheld Controller enables manual positioning of the HexaPOD evo CouchTop.

**EnableSwitch Board**
The EnableSwitch Board is located in the control room and enables the movement of the HexaPOD evo CouchTop when pushing the two “Enable” buttons.

**iGUIDE Calibration Tool**
The iGUIDE Calibration Tool is only requested for the Set-to-work procedure and is mounted on the carbon fiber couchtop.

**iGUIDE Calibration Tool Position Helper**
The Calibration Tool Position Helper enables easy positioning of the calibration tool.

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The Handheld Controller enables manual positioning of the HexaPOD evo CouchTop.

*** These components can be ordered as spare parts via the service department.**

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**HexaPOD evo RT System clinical workflow**

1. **Select the patient and treatment data on the IGUIDE software.**
2. **Position the patient manually at the room isocenter for initial patient positioning; align the patient according to the skin tatos.**
3. **The IGUIDE software performs the prescribed table offsets.**
4. **Acquire a volume image of the patient and perform the registration against the reference scan.**
5. **The IGUIDE system precisely drives the HexaPOD evo RT CouchTop to the calculated positional error correction.**
6. **The patient receives treatment.**

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*These components can be ordered as spare parts via the service department.*
Couchtops and Overlays
The iBEAM® evo Couchtop is in perfect synergy with modern radiation therapy techniques, such as IMRT, IGRT and a range of imaging modalities. IGRT requires high-quality kV or MV imaging to enable optimized image registration for misalignment detection and subsequent correction.

The iBEAM evo Couchtop is the next generation couchtop for both imaging and treatment, providing outstanding in situ imaging quality and minimizing artifacts.

Conventional couchtops offer dedicated treatment areas with relatively low attenuation. However, these often contain metal and other solid support structures that attenuate the beam creating limitations to image quality and beam angles. The iBEAM evo Couchtop unique homogenous carbon fiber sandwich design contains no metal in the treatment area and offers improved radiotranslucency with a minimized attenuation spread across the range of beam entry angles, providing the perfect solution for IMRT, VMAT and IGRT.

The improved homogenous construction of the iBEAM evo Couchtop provides high rigidity and strength, thus eliminating local patient sagging (as can occur with "tennis racket" inserts) and permitting increased patient load of 200 kg (440 lb.) with less table flex. The integrated indexing system optimizes patient positioning accuracy and reproducibility, reducing patient setup time, minimizing patient setup inaccuracies and maximizing the stability of positioning devices.

The iBEAM evo Couchtop interchangeable extensions are light, easy to attach and enable flexible patient positioning, rapid patient setup and improved clinical workflow. The iBEAM evo Couchtop also addresses the clinical needs of intracranial and extracranial stereotactic treatments, providing a solid foundation for stereotactic hardware (e.g. Medical Intelligence BodyFIX® and HeadFIX® stereotactic frames and Elekta Esarte® frame).

Unique, optimized carbon fiber sandwich construction – low and homogenous beam attenuation
Outstanding image quality – perfect for kV and MV imaging at the time of treatment
No metal in the treatment area
Industry standard integrated indexing system – compatible to a wide range of existing industry standard accessories
Light and easy interchangeable extensions
Fixed rails and easy removable rails are available on the total length of the couchtop

iBEAM evo Couchtop EP can be retrofitted to Elekta Precise PSS table and iBEAM evo Couchtop product line – can also be retrofitted to other vendors’ linear treatment tables.
The iBEAM evo Extension 650 is designed to support the patient’s upper body and extends off the end of the iBEAM evo Couchtop by 650 mm, thus allowing for treatment of the prostate in very tall patients.

The iBEAM evo Extension H&N is designed to support the patient’s head and neck region and extends off the end of the iBEAM evo Couchtop by 400 mm. The small profile (omega shape) optimizes the access to the treatment area, facilitating the use of complex and non coplanar beam angles.

The iBEAM evo Extension 415 is designed to support the patient’s head and neck region and extends off the end of the iBEAM evo Couchtop by 415 mm.

The iBEAM evo Extension 415 is designed to support the patient’s head and neck region and extends off the end of the iBEAM evo Couchtop by 415 mm.

The iBEAM evo Couchtop EP is compatible to the Elekta Precise PSS.

The iBEAM evo Couchtop CA is compatible to Siemens ZXT, Varian ETR and Nucletron Simulix table pedestals with the configuration of the respective iBEAM Couchbase Adapters.

The iBEAM evo Couchtop VE is compatible to the Varian Exact table pedestal.

Optimized for IGRT, IMRT and VMAT

- Low attenuation spread across the range of beam entry angles
- Minimizing imaging artifacts and providing outstanding in situ imaging clarity

Improved patient load

- High rigidity and strength – allows for an increased patient load of 200 kg (440 lb.)

Accurate patient positioning

- Homogeneous construction provides high stability and eliminates local sagging, which can occur with traditional tennis racket inserts or foils.
- Integrated indexing system enables positioning of industry standard accessories and optimizes accuracy of patient setups and reproducibility.

Improved patient throughput and clinical efficiency

- Lightweight and easy to interchange extensions
- Accessory rails enable fixation of industry standard accessories such as knee/arm boards, hand grips and safety belts
- Slim design to maximize patient clearance and facilitate the use of complex and non coplanar treatment angles.

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### iBEAM evo Couchtop – basic components

- **iBEAM evo ESARTE Adapter**: Allows mounting of the Elekta Esarte® Frame.
- **iBEAM evo Couch Adapter**: Allows mounting of the BrainLAB Couchmount System for Varian Exact. Check compatibility with Elekta Precise PSS with your local Elekta sales representative.
- **Couchtop Calibration Bar VE**: The Couchtop Calibration Bar VE can be positioned on the surface of the couch top and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral directions, according to the defined table calibration procedure of the respective couch manufacturer.
- **Indexing Bar MRI (Set of 3)**: The Indexing Bar MRI is designed of non-conductive and non metal materials for use with the Bodyfix 14 Indexing System and allows indexing and positioning of compatible surface mounted accessories.
- **iBEAM evo Couchtop dosimetric properties**

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</tr>
<tr>
<td>iBEAM® evo Extension 415</td>
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<td>1.3%</td>
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<tr>
<td>iBEAM® evo Extension H&amp;N</td>
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<tr>
<td>Phantom, PMMA, Field size: 9.6 x 10.4 cm SSD 95.2 cm, d = 4.8 cm, FTV Multiplan</td>
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</table>

### iBEAM evo Couchtop EP (for Elekta Precise PSS)

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**
- **iBEAM® evo Couchtop VE**
- **iBEAM® evo Couch Adapter**
- **iBEAM® evo Couchtop EP**
- **Couchtop Calibration Bar VE**
- **Indexing Bar MRI**

### iBEAM evo Couchtop – configurations

- **iBEAM evo Couchtop EP (for Elekta Precise PSS)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Art.-Nr.</th>
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<tbody>
<tr>
<td>iBEAM® evo Couchtop EP</td>
<td>P10105-150</td>
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<tr>
<td>iBEAM® evo Couchtop EP</td>
<td>P10105-148</td>
</tr>
<tr>
<td>iBEAM® evo Extension H&amp;N</td>
<td>P10105-413</td>
</tr>
<tr>
<td>iBEAM® evo Extension 650</td>
<td>P10105-148</td>
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<td>iBEAM® evo Extension 415</td>
<td>P10105-413</td>
</tr>
<tr>
<td>iBEAM® evo Removable Rails EP</td>
<td>P10105-716</td>
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</table>

### iBEAM evo Couchtop EP (for Varian ETR couch)

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**
- **iBEAM® evo Couchtop VE**
- **iBEAM® evo Couch Adapter Varian ETR**

### iBEAM evo Couchtop VE (for Varian Exact couch)

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**
- **iBEAM® evo Couchtop VE**
- **iBEAM® evo Couch Adapter SIEMENS ZXT**

### iBEAM evo Couchtop for Elekta Precise

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**

### iBEAM evo Couchtop CA ETR (for Varian ETR couch)

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**

### iBEAM evo Couchtop CA ZXT (for Siemens ZXT couch)

- **iBEAM® evo Extension H&N**
- **iBEAM® evo Extension 650**
- **iBEAM® evo Extension 415**

The iBEAM evo Couchtop is available in several configurations for several popular linacs and simulators. Please contact your account representative for further details.
iBEAM Couchtop
The clear vision upgrade

What you really want to see is the patient – not the couchtop. The iBEAM® Couchtop carries the patient like a petri dish, providing full transparency for in situ imaging. The vision is not obstructed by imaging artifacts – not for the human eye nor for advanced imaging algorithms.

The iBEAM Couchtop has been specifically designed to address the clinical needs of high reproducibility and brilliant image quality.

It has a unique and homogeneous design which minimizes image artifacts. Constructed of carbon fiber, the iBEAM Couchtop provides high stiffness, low and homogeneous beam attenuation and high radiotranslucency.

The integrated indexing system reduces patient setup time and minimizes patient setup inaccuracies and positioning device movements.

The iBEAM Indexing Bars are designed for ease of setup, and enable positioning and indexing of various Medical Intelligence and other industry standard accessories. The adaptable extensions are light, easy to attach and enable flexible patient positioning and various clinical setups. The quick release mechanism is easy to use and minimizes setup time.

The iBEAM Head and Neck Extensions, compatible with the HeadFIX system, are an ideal support for the patient’s head. The head and neck extensions’ small profile (omega shape) optimizes access to the treatment area, facilitating the use of complex and non coplanar beam angles.

The iBEAM Couchtop also addresses the clinical needs for intracranial and extracranial stereotactic treatments by providing direct integration with the range of Medical Intelligence stereotactic frames.

Homogeneous carbon fiber sandwich construction
Perfect for KV and MV imaging modalities
High rigidity and strength
Industry standard indexing system duplicates patient setup from imaging to treatment procedures
Rapidly and easily adaptable extensions
Small profile for MMLC operations
iBEAM Couchtop can be retrofitted to various vendors’ linac treatment tables
iBEAM Couchtop – basic components

The iBEAM Couchtop is a carbon fiber replacement couchtop designed for most original equipment table tops of simulator and treatment machines. With its components, the iBEAM Couchtop offers a complete treatment table solution.

**Art.-Nr.** P10105-111

**iBEAM Couchtop Standard**

The iBEAM Couchtop Standard is designed to support the patient’s head and neck region and extends off the end of the iBEAM Couchtop by 415 mm.

**Art.-Nr.** P10105-110

**iBEAM Couchbase Adapters**

The iBEAM Couchbase Adapter connects the iBEAM Couchtop to the couch pedestal of the respective treatment table pedestal.

**Art.-Nr.** P10105-113

**iBEAM &N Extension STANDARD**

The iBEAM &N Extension Standard is designed to support the patient’s head and neck region and extends off the end of the iBEAM Couchtop by 415 mm.

**Art.-Nr.** P10105-112

**iBEAM Extension LONG**

The iBEAM Extension LONG is designed to support the patient’s head and neck region and extends off the end of the iBEAM Couchtop by 415 mm.

**Art.-Nr.** P10105-114

**iBEAM Couch Extension STANDARD**

The iBEAM Couch Extension Standard is designed to support the patient’s head and neck region and extends off the end of the iBEAM Couchtop by 210 mm.

**Art.-Nr.** P10105-115

**iBEAM Spring Wedges**

The iBEAM Spring Wedges set consists of four wedges (two as spare parts) which are fitted into the locking devices of the iBEAM couchtop. Fitting the wedges into the locking devices will compensate for any possible play occurring with different extensions and adapters when the locking devices are closed.

**Art.-Nr.** P10105-411

The Couchtop Calibration Bar VE can be positioned on the surface of the couch top and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-119

The Couchtop Calibration Bar VE can be positioned on the surface of the couch top and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-120

The iBEAM Indexing Bar MRI is designed of non-conductive and non metal materials for use with the BodyFIX 14 Indexing System and allows indexing and positioning of compatible surface mounted accessories.

**Art.-Nr.** P10105-121

The iBEAM Indexing Bar MRI (Set of 3) consists of four bars allowing indexing and positioning of compatible surface mounted accessories.

**Art.-Nr.** P10105-122

The iBEAM Couchtop ELEKTA Precise E is designed to support the patient’s head and neck region and extends off the end of the iBEAM Couchtop by 415 mm.

**Art.-Nr.** P10105-123

**iBEAM Couchtop Elekta Precise**

The Couchtop indexed with HeadFIX system and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-124

**iBEAM Couchtop VARIAN Exact**

The Couchtop indexed with BodyFIX system and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-125

**iBEAM Couchtop Siemens ZXT**

The Couchtop indexed with HeadFIX system and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-126

**iBEAM Couchtop Siemens ZXT**

The Couchtop indexed with BodyFIX system and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-127

**iBEAM Couchtop Varian ETR**

The Couchtop indexed with BodyFIX system and integrates with the BodyFIX 14 Indexing System. The featured cross hair can be used for the couch alignment to the isocenter in longitudinal and lateral direction according to the defined table calibration procedure of the respective couch manufacturer.

**Art.-Nr.** P10105-128

Please contact your account representative for further details.

iBEAM Couchtop – configuration

The iBEAM Couchtop is available in several configurations for several popular linacs and simulators. Please contact your account representative for further details.

iBEAM Couchtop – basic components

The iBEAM Couchtop is available in several configurations for several popular linacs and simulators. Please contact your account representative for further details.
The iBEAM® evo CT Overlay facilitates new potentials for treatment planning and simulation.

The iBEAM evo CT Overlay is identical in design, geometry and dosimetric properties with the iBEAM evo Couchtop and offers the total departmental solution in combination with an iBEAM evo Couchtop (installed on the linac table).

The iBEAM evo CT Overlay rests above the plane of the original CT cradle. The digital removal of the cradle provides the capability to take into account the beam attenuation and dosimetric aspects of the iBEAM evo Couchtop in your treatment planning data set.

By utilizing the same tabletop configuration for planning and treatment, both patient position and beam modeling can be accurately represented and replicated.

The integrated indexing system optimizes patient positioning accuracy and reproducibility, reducing patient setup time, minimizing patient setup inaccuracies further in the treatment chain and maximizing the stability of positioning devices.

The iBEAM evo interchangeable extensions are light, easy to attach and enable flexible patient positioning, rapid patient setup and improved clinical workflow throughout the oncology center.

The iBEAM evo CT Overlay also addresses the clinical needs of intracranial and extracranial stereotactic treatments, providing a solid foundation for stereotactic hardware (e.g., Medical Intelligence BodyFIX® and HeadFIX® stereotactic frames).

The iBEAM evo CT Overlay is available for various vendors’ CT models.

Future-proof for the latest RT techniques
iBEAM evo CT Overlay – basic components

From Treatment Planning to Treatment

**Designed for Treatment Planning**
- Allows accounting for the geometry and dosimetric properties of the iBEAM evo Couchtop
- Designed to minimize image artifacts

**Accurate patient positioning**
- Integrated indexing system enables positioning of industry standard accessories and optimizes accuracy of patient setups and reproducibility

**Improved patient throughput and clinical efficiency**
- Lightweight and easy interchangeable extensions

CT scan of iBEAM evo CT Overlay

CT cradle can be digitally removed

Patient

iBEAM evo CT Overlay

iBEAM evo CT Overlay is available in several configurations for several commercially available CTs. Please contact your account representative for further details.

**iBEAM evo Extension H&N**
The iBEAM evo Extension H&N is designed to support the patient’s head and neck region and extends off the end of the iBEAM evo Couchtop by 400 mm. The small profile (omega shape) optimizes the access to the treatment area, facilitating the use of complex and non coplanar beam angles.

**Art.-Nr.**
P10105-413

**iBEAM evo Extension 415**
The iBEAM evo Extension 415 is designed to support the patient’s head and neck region and extends off the end of the iBEAM evo Couchtop by 415 mm.

**Art.-Nr.**
P10105-412

**iBEAM Indexing Bar (Set of 3)**
The iBEAM Indexing Bar is designed for the BodyFIX 14 Indexing System and allows indexing and positioning of compatible surface mounted accessories.

**Art.-Nr.**
P10105-110

**Art.-Nr.**
P10105-168

Indexing Bar MRI (Set of 3)
The Indexing Bar MRI is designed of non conductive and non metal materials for use with the BodyFIX 14 Indexing System and allows indexing and positioning of compatible surface mounted accessories.

**Art.-Nr.**
P10105-418

**Art.-Nr.**
P10105-410

iBEAM evo CT Overlay simple steps

iBEAM evo CT Overlay
quick-release mechanism with no metal components

iBEAM evo CT Overlay is available for various CT models
Similar to the iBEAM® evo CT Overlay, the iBEAM CT Overlay is also available for combination with the iBEAM Couchtop.

The iBEAM CT Overlay facilitates new potentials for treatment planning and simulation.

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The clear vision upgrade

See what you treat
Head and Neck
Positioning and Immobilization
Precision treatments require accurate, reproducible patient positioning and reliable immobilization.

HeadFIX® is a unique, vacuum-activated head frame system, specifically designed to overcome the drawbacks of conventional invasive fixation and non-invasive thermoplastic masks.

To achieve high-precision positioning and reproducibility, the HeadFIX system uses a mouthpiece with the patient’s upper palate impression and solid vacuum bonding with the hard palate.

The patient-specific dental mold is quickly and easily formed, using a dental impression material and the HeadFIX Mouthpiece. The vacuum-activated mouthpiece immobilizes the patient.

The nosepiece is an alternative to the mouthpiece for toothless patients and patients with mycoses in the mouth.

HeadFIX is constructed entirely of radiotranslucent carbon fiber compatible with CT scanners, X-ray volume imaging and portal imaging. The construction ensures rigidity and reliability while restricting patient movement during both imaging and treatment.

Non-invasive stereotactic reference frames are available for both intracranial and head-and-neck regions of interest, providing precise target localization and patient setup for imaging and treatment.

The BlueBAG HeadFIX Vacuum Cushion provides additional patient comfort while ensuring cranial and head-and-neck support.
HeadFIX setups and applications

**HeadFIX Cranial**

The HeadFIX® Cranial features enhanced immobilization and repositioning in patient setups. The HeadFIX Cranial is specially made for various cranial treatment applications including paranasal sinus or orbital treatments.

**HeadFIX Head & Neck**

The HeadFIX Head & Neck features enhanced immobilization and repositioning in patient setups. The HeadFIX Head & Neck is specially designed for various head and neck treatment applications including tongue carcinoma, upper esophagus carcinoma or cervical vertebrae carcinoma.

**HeadFIX with Nosepiece**

The nosepiece is an alternative to the mouthpiece for toothless patients and patients with mycoses in the mouth. It offers less (re)positioning accuracy than the HeadFIX Mouthpiece. The HeadFIX Nosepiece is designed for various head and neck treatment applications.

**HeadFIX – basic components**

- **HeadFIX Base Plate P2**
  The Base Plate is a small open carbon fiber frame. Three-point leveling screws, one at midline beyond the top of the patient’s head and one lateral to each side of the patient’s neck, give the ability to precisely level the system on the CT, simulation and treatment couches. The plate is attached to the diagnostic or treatment couch by two pins.

- **HeadFIX Post Set P2**
  HeadFIX Post Set P2 is a set of carbon fiber vertical support posts, available with a length of 231 mm (9.09 Inch) and 271 mm (10.67 Inch) which are attached to the base plate.

- **HeadFIX Vacuum Pump**
  The HeadFIX Vacuum Pump is necessary when repositioning the patient with a vacuum mouthpiece based system.

- **HeadFIX Localizer CRANIAL P2**
  The HeadFIX Localizer Cranial P2 is a non-invasive stereotactic reference frame for cranial target localization. In combination with the vacuum based mouthpiece it references the immobilized patient in a precise manner in stereotactic space.

- **HeadFIX Localizer Head & Neck**
  The HeadFIX Localizer Head & Neck is a non-invasive stereotactic reference frame for Head & Neck target localization. In combination with the vacuum based mouthpiece it references the immobilized patient in a precise manner in stereotactic space.

- **HeadFIX Angulating Fixation Set**
  The HeadFIX Angulating Fixation Set is for the attachment of the mouthpiece module allowing the patient to be securely affixed to the HeadFIX system and to be precisely (re-)positioned.

- **HeadFIX Quick Release**
  For quick release from the relocatable frame.

- **HeadFIX with Nosepiece**
  The nosepiece is an alternative to the mouthpiece for toothless patients and patients with mycoses in the mouth. It offers less (re)positioning accuracy than the HeadFIX Mouthpiece. The HeadFIX Nosepiece is designed for various head and neck treatment applications.
**HeadFIX – basic components**

**HeadFIX Vacuum Pump Set**
The HeadFIX Vacuum Pump Set is a tubing set including all necessary tubes for the vacuum pump.

**HeadFIX Fiducial Set Aluminum**
The HeadFIX Localizers feature three Localizer screens specially designed for stereotactic application. Each of these Localizer screens has three slots with special plastic tubes already inserted. As an alternative to the plastic tubes, these Aluminum contrast rods allow improved visualization in CT.

**HeadFIX simple steps**
Set up the HeadFIX Base Plate on the tabletop.

Position the HeadFIX Vacuum Cushion between the posts and index it to the base plate.

Carefully place the patient’s head on the vacuum cushion, insert the mouthpiece into the patient’s mouth and mold the vacuum cushion around the back of the patient’s head.

Set up the stereotactic frame and lock the quick-release clips.

**HeadFIX – reusable components**

**BlueBAG HeadFIX T-shape with neck roll**
The integrated, yet freely movable neck roll allows the formation of a very stable, optimized mold of the patient’s head and neck contours. The neck roll becomes rigid during evacuation of the cushion and is made of the same filling material as the vacuum cushion. The custom-formed vacuum cushion provides comfortable support for the head and neck as well as for the shoulders.

**HeadFIX Independent Indexing Couchtop Adapter P2**
The HeadFIX Independent Indexing Couchtop Adapter P2 is used to attach the HeadFIX Base Plate to the respective tabletop.

**HeadFIX Torque Wrench**
The HeadFIX Torque Wrench is used to tighten the glassfiber screws of the Angulating Fixation Set.

**HeadFIX Mixer and Dispenser**
The HeadFIX Mixer and Dispenser enables easy filling of the mouthpiece tray with dental impression material. It is also used for dispensing the impression material for nose impressions.

**HeadFIX Marking Set**
The HeadFIX Marking Sets contain marking plates for the HeadFIX Localizers. These plates assist in patient positioning and light field verification.

**HeadFIX Storage Box**
The storage boxes are available for storing of patient-specific components.

**BlueBAG HeadFIX Rectangular**
The integrated, yet freely movable neck roll allows the formation of a very stable, optimized mold of the patient’s head and neck contours. The neck roll becomes rigid during evacuation of the cushion and is made of the same filling material as the vacuum cushion. The custom-formed vacuum cushion provides comfortable support for the head and neck as well as for the shoulders.

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**HeadFIX – disposable components**

**HeadFIX Dental Impression Material**
The HeadFIX Dental Impression Material contains four tubes of dental impression material for generating the mouthpiece and nosepiece impressions.

**HeadFIX Adhesive**
HeadFIX Adhesive is used to coat the inner side of the impression tray lightly for optimal adhesion between the dental impression material and the mouthpiece.

**HeadFIX Saliva Stop**
HeadFIX Saliva Stop is connected between the vacuum pump and the mouthpiece preventing saliva from reaching the vacuum pump.

**HeadFIX Nosepiece**
The HeadFIX Nosepiece set contains five nosepieces for assuring safe immobilization and precise repositioning of the head and by the nose of the patient. The nosepiece is affixed to the HeadFIX Angulating Fixation Set.

**HeadFIX Nosepiece Hygienic Cover**
The HeadFIX Nosepiece Hygienic Cover is a foil which is used when the nasal impression is made on the patient.

**HeadFIX Mouthpiece**
The mouthpiece is affixed to the HeadFIX Angulating Fixation Set assuring safe immobilization and precise (re-)positioning.

**HeadFIX Friction Plates**
Friction plates are used with the HeadFIX Angulating Fixation Set and must be removed after the patient treatment cycle.

**HeadFIX Mouthpiece Kit Mixed Size Regular Tray**
- P10103-311 HeadFIX Mouthpiece Small P2 (10 pcs.)
- P10103-312 HeadFIX Mouthpiece X-large P2 (10 pcs.)
- P10103-601 HeadFIX Mouthpiece Mixed Size P2 (10 pcs.)
- P10103-602 HeadFIX Mouthpiece Mixed Size (10 pcs.)
- P10103-603 HeadFIX Mouthpiece Medium (10 pcs.)
- P10103-604 HeadFIX Mouthpiece Large (10 pcs.)

**HeadFIX Mouthpiece Kit Small Regular Tray with Sidebars**
- P10103-601 HeadFIX Mouthpiece Small P2 (10 pcs.)
- P10103-602 HeadFIX Mouthpiece Small (10 pcs.)
- P10103-603 HeadFIX Mouthpiece Medium (10 pcs.)
- P10103-604 HeadFIX Mouthpiece Large (10 pcs.)

**HeadFIX Base Set P2 115V**
- P10103-308 HeadFIX Quick Release
- P10103-309 HeadFIX Vacuum Pump 115V
- P10103-310 HeadFIX Vacuum Pump Set
- P10103-311 HeadFIX User Manual
- P10103-312 HeadFIX Mixer and Dispenser
- P10103-313 HeadFIX Post set 271 P2
- P10103-314 HeadFIX Base Plate P2

**HeadFIX Base Set P2 230V**
- P10103-308 HeadFIX Quick Release
- P10103-309 HeadFIX Vacuum Pump 230V
- P10103-310 HeadFIX Vacuum Pump Set
- P10103-311 HeadFIX User Manual
- P10103-312 HeadFIX Mixer and Dispenser
- P10103-313 HeadFIX Post set 271 P2
- P10103-314 HeadFIX Base Plate P2

**HeadFIX Dental Impression Material**
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**HeadFIX Mouthpiece**
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**HeadFIX Friction Plates**
Friction plates are used with the HeadFIX Angulating Fixation Set and must be removed after the patient treatment cycle.

**HeadFIX Localizer Set Cranial P2**
- P10103-315 HeadFIX Localizer Set Cranial P2

**HeadFIX Localizer Set Head & Neck**
- P10103-316 HeadFIX Localizer Set Head & Neck

**HeadFIX Positioning accuracy**

<table>
<thead>
<tr>
<th>Category</th>
<th>Adult patients</th>
<th>Pediatric patients</th>
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<tbody>
<tr>
<td>Cranio-caudal mean accuracy</td>
<td>0.73 ± 0.45 mm</td>
<td>0.83 ± 0.45 mm</td>
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<tr>
<td>Antero-posterior mean accuracy</td>
<td>0.62 ± 0.44 mm</td>
<td>0.67 ± 0.44 mm</td>
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<td>Mediolateral mean accuracy</td>
<td>0.47 ± 0.33 mm</td>
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<td>Repositioning accuracy</td>
<td>0.96 ± 0.41 mm</td>
<td>1.02 ± 0.41 mm</td>
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</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Adult patients</th>
<th>Pediatric patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean deviation in any one direction</td>
<td>0.8 ± 0.2 mm</td>
<td>0.9 ± 0.2 mm</td>
</tr>
<tr>
<td>Mean 3D deviation</td>
<td>1.8 ± 0.6 mm</td>
<td>2.0 ± 0.6 mm</td>
</tr>
</tbody>
</table>

**HeadFIX Mouthpiece immobilization**

- Adult patients (Innsbruck University, Sweeney R.A.J.)
- Pediatric patients (Children’s Hospital Los Angeles, Olch A.J., Lavey R.)
Reposition accuracy of bite block based systems was never as excellent as expected. The problem therefore with bite block based systems was mainly the difficulty in establishing an objective, identical and reproducible connection of the impression tray to the upper palate. The key feature of the HeadFIX system is its Mouthpiece with the patient’s upper palate impression. The custom formed Mouthpiece is drawn to the patient’s maxilla using a vacuum process. It is fixed without the active cooperation of the patient, and control of the vacuum pressure ensures adequate immobilization and accurate repositioning.
The HeadSTEP iFRAME based immobilization system provides one of the easiest to use devices available on the market. Its excellent robustness and quality guarantees highly precise and facile repositioning in routine cranial as well as head, neck and shoulder immobilization. The HeadSTEP system is designed to include the iCAST thermoplastic material and the disposable iFRAME. The iFRAME allows easy molding and symmetrical pull-down by one therapist. The joint of the wing-shaped iFRAME is one of the great advantages of the system, combining the total coverage of the anterior, lateral and superior head regions with the iFRAME locked in the shaped channels, minimizing the rotation of the head in all three axes.

The low-temperature iCAST thermoplastic is available in a variety of perforation patterns. It’s rigidity, resistance to shrinkage and easy molding quality is outstanding. The HeadSTEP system uses a 23-step elevation mechanism, which permits immobilization at variable head angles without the use of wedges. It can be used on all commercially available couches and is also indexable for enhanced reproducibility.

The symmetrical pull-down
Single technician molding
Variable head angles without any wedges
iFRAME – wing profile frame with a joint
Minimizes rotation of the head in all three axes
Optimizes repositioning accuracy for fractionated treatments
Saves time and simplifies radiation therapy procedures
Integrated indexing system
The ProneSTEP is designed for head immobilization in prone position as an add-on system for the HeadSTEP.

HeadSTEP Carbon - Height Adjustment
The HeadSTEP system is designed for routine head and neck immobilization. Including height adjustment with 23 angles and integrated indexing system.

HeadSTEP Carbon - Flat
The HeadSTEP flat system is designed for routine head and neck immobilization.

Pillow Wedge
High precision wedge for HeadSTEP pillow, 10° angle.

HS Indexing Adapter
The HS indexing adapter enables the reproducible attachment of the HeadSTEP directly on a indexed CT or linac couch by using industry standard indexing bars.

HS Independent Indexing Clamp
The HS independent indexing clamp enables the reproducible attachment of the HeadSTEP directly on a non-indexed CT or linac couch.

HeadSTEP simple steps
Set the HeadSTEP System on the tabletop.
Choose the suitable position of the head out of 24 different possibilities.
Position the patient’s head in the head support.
Center frame with mask material over patient’s face.
Tilting slightly downward at the chin, gently and steadily press the thermoplastic dome, over the patient’s face, until the outer frame touches the baseplate.
Snap the frame ends in the baseplate and lock it in the back.
Mold mask material around the patient’s contours. The molding of the nose bridge is of crucial importance, as this is the reference point during the application of the mask.
Mold closely around the chin and over the eyes, advising patient to keep the eyes closed.

Set the HeadSTEP System on the tabletop.
Choose the suitable position of the head out of 24 different possibilities.
Position the patient’s head in the head support.
Center frame with mask material over patient’s face.
Tilting slightly downward at the chin, gently and steadily press the thermoplastic dome, over the patient’s face, until the outer frame touches the baseplate.
Snap the frame ends in the baseplate and lock it in the back.
Mold mask material around the patient’s contours. The molding of the nose bridge is of crucial importance, as this is the reference point during the application of the mask.
Mold closely around the chin and over the eyes, advising patient to keep the eyes closed.
### HeadSTEP iFRAME advantages

The iFRAME allows easy molding and symmetrical pull-down by one therapist. The joint of the wing shaped iFRAME is one of the great advantages of the system, combining the total coverage of the anterior, lateral and superior head regions with the iFRAME locked in the shaped channels, minimizing the rotation of the head in all three axes.

### iCAST Precut Head
- Mask material for head immobilization including disposable iFRAME.

### iCAST Precut Head and Neck
- Mask material for head and neck immobilization including disposable iFRAME.

### iCAST Precut Head and Shoulder
- Mask material for head and shoulder immobilization including disposable iFRAME.

### Art.-Nr. P10107-300
- iCAST Precut Head Maxi Perforation
- iCAST Precut Head Micro Perforation

### Art.-Nr. P10107-301
- iCAST Precut Head and Neck Maxi Perforation
- iCAST Precut Head and Neck Micro Perforation

### Art.-Nr. P10107-302
- iCAST Precut Head and Shoulder Maxi Perforation
- iCAST Precut Head and Shoulder Micro Perforation

### Art.-Nr. P10107-303
- iCAST Precut Head and Neck Maxi Perforation
- iCAST Precut Head and Neck Micro Perforation

### Art.-Nr. P10107-304
- iCAST Precut Head and Shoulder Maxi Perforation
- iCAST Precut Head and Shoulder Micro Perforation

### Art.-Nr. P10107-305
- iCAST Precut Head Maxi Perforation
- iCAST Precut Head Micro Perforation

### System HeadSTEP Carbon
- P10107-100 HeadSTEP Carbon - Height Adjustment
- P10107-200 Pillow Standard black
- P10107-201 Pillow High black
- P10107-202 Pillow Wedge
- P10107-203 Pillow Prone large
- P10107-204 Pillow Prone small
- P10107-205 Distance Plate
- P10107-206 Pillow Tilt blue

### System HeadSTEP Carbon - Flat
- P10107-300 HeadSTEP Carbon - Flat
- P10107-301 Pillow Standard black
- P10107-302 Pillow High black
- P10107-303 Pillow Wedge
- P10107-304 Pillow Prone large
- P10107-305 Pillow Prone small
- P10107-306 Pillow Tilt blue

### System HeadSTEP iBEAM Extension
- P10107-400 HeadSTEP iBEAM Extension
- P10107-401 Pillow Standard black
- P10107-402 Pillow High black
- P10107-403 Pillow Wedge
- P10107-404 Pillow Prone large
- P10107-405 Pillow Prone small
- P10107-406 Pillow Tilt blue

### System HeadSTEP iBEAM Extension
- P10107-500 HeadSTEP iBEAM Extension
- P10107-501 Pillow Standard black
- P10107-502 Pillow High black
- P10107-503 Pillow Wedge
- P10107-504 Pillow Prone large
- P10107-505 Pillow Prone small
- P10107-506 Pillow Tilt blue

### System HeadSTEP MR glasfiber
- P10107-600 HeadSTEP MR glasfiber - Height Adjustment
- P10107-601 Pillow Standard black
- P10107-602 Pillow High black
- P10107-603 Pillow Wedge
- P10107-604 Pillow Prone large
- P10107-605 Pillow Prone small
- P10107-606 Pillow Tilt blue
Breast and Thorax
Positioning and Immobilization
Motion is a major cause of artifacts in modern imaging and errors in high-precision therapy. BodyFIX® enables accurate, precise patient positioning and immobilization, providing the foundation for successful imaging and treatment in radiation therapy.

The patented BodyFIX dual vacuum technology maximises repositioning accuracy and intra-treatment patient stability by reducing both involuntary and voluntary patient movement. Manufactured entirely from radiotranslucent materials, BodyFIX provides artifact-free image clarity with minimal beam attenuation.

The unique cover sheet nestles around the patient and produces a uniform pressure, securely immobilizing the patient’s body parts. The immobilization system requires only one radiation therapist for first and daily patient set-up. The BlueBAG BodyFIX Vacuum Cushions enable comfortable and reproducible patient positioning from imaging through the entire treatment process. The BlueBAG BodyFIX Vacuum Cushions create a comfortable, stable and precise mold of the patient’s position for up to six weeks. They can be used for different clinical set-ups and indications such as thorax, hip or total body.

Whenever precise localisation and targeting are required, non-invasive stereotactic reference frames are available for extracranial stereotaxy.
BodyFIX Tube D27mm (length 5 m)
The BodyFIX Tube is connected between the Vacuum Pump on the one side and the Vacuum Manifold on the other side.

Art.-Nr. P10102-107

BodyFIX 14 Base Plate Stereotactic
This base plate is specially designed for using BodyFIX stereotactic on non-indexed couch tops.

Art.-Nr. P10102-112
P10102-113

BodyFIX 14 Localizer STANDARD
The BodyFIX 14 Localizer STANDARD enables precise localization of the tumor isocenter. The x-, y-, z-isocenter coordinates can easily be determined with the rods of the localizer.

Art.-Nr. P10102-114

BodyFIX Diaphragm Control
Respiration-induced motion of tumors (such as liver and lung tumors) is still a clinical challenge in modern radiotherapy. Larger margins are required to account for respiratory motion and consequently a larger volume of healthy tissue is irradiated. To increase the accuracy and efficiency for these kinds of treatments, BodyFIX Diaphragm Control has been developed to specifically minimize diaphragm movements.

Art.-Nr. P10102-119

BodyFIX Vacuum Pump P2
The BodyFIX Vacuum Pump P2 consists of two separate, high performance pumps. One membrane pump is used for the evacuation of air from the BlueBAG vacuum cushions and a lateral channel sealer is used to immobilize the patient with the BodyFIX system.

Art.-Nr. P10102-110
P10102-111

BodyFIX 14 Target Positioner STANDARD
The BodyFIX 14 Target Positioner STANDARD enables the exact targeting of the tumor isocenter on the linac identified with the localizer on the CT.

Art.-Nr. P10102-115

BodyFIX 14 Base Plate Stereotactic Standard
BodyFIX 14 Base Plate Stereotactic MRI

BodyFIX 14 Target Positioner STANDARD
The BodyFIX 14 Target Positioner STANDARD enables the exact targeting of the tumor isocenter on the linac identified with the localizer on the CT.

Art.-Nr. P10102-116

BodyFIX – basic components

BodyFIX Stereotactic System with Localizer
The stereotactic localizer is used as a coordinate system for frame-based localization during imaging.

BodyFIX Stereotactic System with Target Positioner
The target positioner is used for orientation and target setup for frame-based stereotactic treatments.

BodyFIX BlueBAG for breast and thorax setup
The BodyFIX BlueBAG Thorax is specially designed for various treatment applications including breast, lung and abdominal tumors.

BodyFIX BlueBAG Hip setup
The BodyFIX BlueBAG Hip is available for abdominal and pelvis treatment applications including prostate and cervical tumors.

BodyFIX BlueBAG Total Body setup
BodyFIX BlueBAG Total Body cushion offers comfortable and reproducible patient positioning for total body positioning.

BodyFIX Thorax setup

Position the BlueBAG BodyFIX vacuum cushion on the imaging or treatment table using the indexing bars.

Guide the patient’s head through the hole of the thorax cover sheet.

Position the patient on top of the BlueBAG BodyFIX and place the arms on top. Ensure that the cover sheet is accurately attached to the adhesive tape.

Position the manifold tube over the patient’s upper body to provide optimal distribution of airflow. Then place the manifold cushion over the patient’s hip.

To ensure that the non-evacuated BlueBAG BodyFIX molds to the patient’s body, firmly pull the cover sheet towards the patient.

Produce an exact mold by pressing the BlueBAG BodyFIX towards the patient and pulling the cover sheet all around the patient.
**BodyFIX – basic components**

**BodyFIX Manifold Tube**
Together with the Manifold Cushion the BodyFIX Manifold Tube establishes a permanent and equal vacuum over the patient.

**Art.-Nr.** P10102-218
BodyFIX Manifold Tube 1000mm

**Art.-Nr.** P10102-219
BodyFIX Manifold Tube 1500mm

**Art.-Nr.** P10102-220
BodyFIX Manifold Tube 2000mm

**BodyFIX Stabilizing Cushion**
The BodyFIX stabilizing cushion provides improved stabilization of the patient when setting up the vacuum.

**Art.-Nr.** P10102-216
BodyFIX Stabilizing Cushion 800x1000mm

**Art.-Nr.** P10102-217
BodyFIX Stabilizing Cushion 900x1000mm

**BodyFIX Independent Indexing LINAC Couch Adapter (Set of 2)**
The BodyFIX Independent Indexing LINAC Couch Adapter enables the attachment of the BodyFIX Base Plate directly to a non-indexed Linac couch to enable the use of the BodyFIX system.

**Art.-Nr.** P10102-408
BodyFIX Independent Indexing LINAC Couch Adapter (Set of 2)

**BodyFIX Indexing Adapter**
The BodyFIX Indexing Adapter enables the attachment of the BodyFIX Base Plate directly to an indexed tabletop to enable the use of the stereotactic BodyFIX system. (The indexing system must be featured over a length of 210cm.)

**Art.-Nr.** P10102-412
BodyFIX Indexing Adapter

**BodyFIX Comfort Module**
The BodyFIX Comfort Module is a cushion to place the head and upper body comfortably on the couchstop where no BlueBAG is beyond the patient’s body.

**Art.-Nr.** P10102-201
BodyFIX Comfort Module 600x800mm

**Art.-Nr.** P10102-202
BodyFIX Comfort Module 700x900mm

**BodyFIX Stabilizing Cushion**
The BodyFIX stabilizing cushion prevents the Cover Sheet from collapsing directly against the vacuum tube by distributing the airflow around the patient.

**Art.-Nr.** P10102-205
BodyFIX Stabilizing Cushion Width: 400mm

**Art.-Nr.** P10102-206
BodyFIX Stabilizing Cushion Width: 500mm

**BodyFIX Manifold Connector STANDARD**
The BodyFIX Manifold Connector is used to attach the manifold cushion to the manifold tube.

**Art.-Nr.** P10102-214
BodyFIX Manifold Connector STANDARD

**BodyFIX Cover Sheet HIP**
The BodyFIX Cover Sheet HIP with sleeve includes five cover sheets. The cover sheets are placed over the patient to generate the vacuum. This set is used for the BodyFIX 14 BlueBAG HIP and Total Body.

**Art.-Nr.** P10102-501
BodyFIX Cover Sheet HIP 700x1300mm

**Art.-Nr.** P10102-502
BodyFIX Cover Sheet HIP 800x1400mm

**Art.-Nr.** P10102-503
BodyFIX Cover Sheet HIP 900x1500mm

**BodyFIX Cover Sheet THORAX**
The BodyFIX Cover Sheet THORAX with sleeve includes five cover sheets. The cover sheets are placed over the patient to generate the vacuum. This set is used for the BodyFIX 14 BlueBAG THORAX.

**Art.-Nr.** P10102-505
BodyFIX Cover Sheet THORAX 1800x1600mm

**Art.-Nr.** P10102-506
BodyFIX Cover Sheet THORAX 2100x1800mm

**BodyFIX Cover Sheet HIP PLUS**
The BodyFIX Cover Sheet HIP PLUS with sleeve includes five cover sheets. This set is used for the BodyFIX 14 BlueBAG HIP and Total Body.

**Art.-Nr.** P10102-508
BodyFIX Cover Sheet HIP PLUS 700x1300mm

**Art.-Nr.** P10102-509
BodyFIX Cover Sheet HIP PLUS 800x1400mm

**BodyFIX Cover Sheet HIP TOTAL BODY**
The BodyFIX Cover Sheet HIP TOTAL BODY includes five cover sheets. This set is used for the BodyFIX 14 BlueBAG HIP and Total Body.

**Art.-Nr.** P10102-510
BodyFIX Cover Sheet TOTAL BODY 2700x1400mm

**BodyFIX Cover Sheet THORAX LONG**
The BodyFIX Cover Sheet THORAX LONG has an adhesive border to enable the use of the BodyFIX system on a non-indexed CT couch.

**Art.-Nr.** P10102-497
BodyFIX Cover Sheet THORAX LONG 2700x1600mm

**BodyFIX Cover Sheet HIP THORAX**
The BodyFIX Cover Sheet HIP THORAX includes five cover sheets. This set is used for the BodyFIX 14 BlueBAG HIP and Total Body.

**Art.-Nr.** P10102-491
BodyFIX Cover Sheet HIP THORAX 1800x1600mm

**BodyFIX Cover Sheet HIP THORAX LONG**
The BodyFIX Cover Sheet HIP THORAX LONG includes five cover sheets. This set is used for the BodyFIX 14 BlueBAG HIP and Total Body.

**Art.-Nr.** P10102-492
BodyFIX Cover Sheet HIP THORAX LONG 2100x1800mm

**BodyFIX Stabilizing Cushion**
The BodyFIX stabilizing cushion provides improved stabilization of the patient when setting up the vacuum.

**Art.-Nr.** P10102-201
BodyFIX Comfort Module 500x400mm

**BodyFIX Manifold Tube**
The BodyFIX Manifold Tube establishes a permanent and equal vacuum over the patient.

**Art.-Nr.** P10102-202
BodyFIX Manifold Cushion 800mm

**Art.-Nr.** P10102-201
BodyFIX Manifold Cushion 700mm

**BodyFIX Manifold Connector STANDARD**
The BodyFIX Manifold Connector is used to attach the manifold cushion to the manifold tube.

**Art.-Nr.** P10102-214
BodyFIX Manifold Connector STANDARD

**BodyFIX repositioning accuracy**

**Innsbruck University, Nevinny-Stickel M., Sweeney RA., Bale R., Pouch A., Auburger T., Lukas P.**

Mean 3D repositioning error:
- X: ± 2.5 mm
- Y: ± 1.3 mm

**Dept. of Radiation Oncology, University of Texas Health Science Center at San Antonio**

Mean computed absolute target translation:
- X: ± 2.9, ± 3, ± 2.5
- Y: ± 3.2 ± 2.7 mm

**Meg Schneider, John Way, Robert Snee, Janet Williams, Prince of Wales Hospital, Department of Radiation Oncology, Sydney, Australia**

Maximum deviation of setup accuracy: ≤ 2 mm
BlueBAG BodyFIX rectangular shape

BlueBAG BodyFIX T-shape

BlueBAG BodyFIX pentagon shape

BlueBAG BodyFIX with knee roll

The integrated, yet freely movable knee roll allows formation of a very stable, comfortable and optimized mold of the patient’s contours. The knee roll becomes rigid during evacuation of the cushion and is made of the same filling material as the vacuum cushion.

BlueBAG BodyFIX with knee roll

BlueBAG BodyFIX – kits

BlueBAG BodyFIX – reusable components

BlueBAG BodyFIX rectangular shape

BlueBAG BodyFIX T-shape

BlueBAG BodyFIX pentagon shape

BlueBAG BodyFIX with knee roll

The integrated, yet freely movable knee roll allows formation of a very stable, comfortable and optimized mold of the patient’s contours. The knee roll becomes rigid during evacuation of the cushion and is made of the same filling material as the vacuum cushion.

BlueBAG BodyFIX with knee roll

BlueBAG BodyFIX – kits

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BlueBAG BodyFIX rectangular shape

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The integrated, yet freely movable knee roll allows formation of a very stable, comfortable and optimized mold of the patient’s contours. The knee roll becomes rigid during evacuation of the cushion and is made of the same filling material as the vacuum cushion.

BlueBAG BodyFIX with knee roll

BlueBAG BodyFIX – kits

BlueBAG BodyFIX – reusable components

BlueBAG BodyFIX rectangular shape

BlueBAG BodyFIX T-shape

BlueBAG BodyFIX pentagon shape

BlueBAG BodyFIX with knee roll
### BodyFIX/BodyFIX – kits

**BodyFIX 14 THORAX T-Shape Fixation Set STANDARD**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P10102-201</td>
<td>BodyFIX Harsh Cushion Endplate</td>
</tr>
<tr>
<td>P10102-202</td>
<td>BodyFIX Harsh Cushion Endplate</td>
</tr>
<tr>
<td>P10102-219</td>
<td>BodyFIX Harsh Tube 1800mm</td>
</tr>
<tr>
<td>P10102-300</td>
<td>BodyFIX Harsh Cushion Connector STANDARD</td>
</tr>
</tbody>
</table>

This set includes all necessary components to enable patient positioning especially for treatment of the thorax.

**BodyFIX 14 TOTAL BODY Fixation Set STANDARD**

<table>
<thead>
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<tbody>
<tr>
<td>P10102-200</td>
<td>BodyFIX Harsh Cushion Endplate</td>
</tr>
<tr>
<td>P10102-202</td>
<td>BodyFIX Harsh Cushion Endplate</td>
</tr>
<tr>
<td>P10102-211</td>
<td>BodyFIX Harsh Tube 2800mm</td>
</tr>
<tr>
<td>P10102-300</td>
<td>BodyFIX Harsh Cushion Connector STANDARD</td>
</tr>
</tbody>
</table>

This set includes all necessary components to enable patient positioning especially for total body treatment.

**BodyFIX 14 TOTAL BODY Fixation Set WIDE**

<table>
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<td>BodyFIX Harsh Tube 2800mm</td>
</tr>
<tr>
<td>P10102-300</td>
<td>BodyFIX Harsh Cushion Connector STANDARD</td>
</tr>
</tbody>
</table>

This set includes all necessary components to enable patient positioning especially for total body treatment.

### BodyFIX – configurations

**BodyFIX 14 System STEREOTACTIC 120V**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P10102-502</td>
<td>iBEAM Indexing Bar</td>
</tr>
<tr>
<td>P10102-504</td>
<td>BodyFIX Fuses P2 120V 12.5A</td>
</tr>
<tr>
<td>P10102-505</td>
<td>BodyFIX Fuses P2 230V 6.3A</td>
</tr>
</tbody>
</table>

This is a system for immobilization and accurate repositioning of the patient from planning to treatment delivery. It is ideal for use with IGRT for doses escalated hypofractionated treatment delivery.

**BodyFIX 14 System STEREOTACTIC 230V**

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This is a system for immobilization and accurate repositioning of the patient from planning to treatment delivery. It is ideal for use with IGRT for doses escalated hypofractionated treatment delivery.

**BodyFIX 14 System NON-STEREOTACTIC 120V**

<table>
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<tbody>
<tr>
<td>P10102-307</td>
<td>BodyFIX Cover Sheet Stereotactic</td>
</tr>
<tr>
<td>P10102-308</td>
<td>BodyFIX Cover Sheet Stereotactic</td>
</tr>
<tr>
<td>P10102-309</td>
<td>BodyFIX Cover Sheet Stereotactic</td>
</tr>
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This is a system for immobilization and accurate repositioning of the patient from planning to treatment delivery. It is ideal for use with IGRT for dose escalated hypofractionated treatment delivery.

**BodyFIX 14 System NON-STEREOTACTIC 230V**

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</table>

This is a system for immobilization and accurate repositioning of the patient from planning to treatment delivery. It is ideal for use with IGRT for dose escalated hypofractionated treatment delivery.

### BodyFIX Diaphragm Control workflow

1. **Position the BodyFIX BlueBag vacuum cushion on the imaging or treatment table using the indexing bars** (prepregnate is the BodyFIX 14 indexing system).
2. **Position the patient on the BodyFIX BlueBag vacuum cushion.**
3. **Position the manifold tube between the patient's legs to provide optimal distribution of the air flow. Then place the manifold cushions over the patient.**
4. **Cover the patient with the cover sheet, making sure it is accurately attached with the adhesive tape and switch on the BodyFIX Vacuum Pump connected to the manifold tube.**
5. **Position the air of the diaphragm control and the appropriate plate over the diaphragm (above the cover sheet), below the ribs.**
6. **Switch on the vacuum pump connected to the BodyFIX BlueBag vacuum cushion to generate a vacuum and mold the diaphragm around the patient's contours.**
The WingSTEP™ enables facile positioning, precise repositioning and high patient comfort during breast and thorax treatment. With its excellent robustness and quality, this patient friendly and non-invasive positioning system is a novel device designed to improve the accuracy of radiation therapy for the breast, thorax and upper abdomen areas.

The WingSTEP comfortably positions and supports the arms above the head in supine position. The new system allows natural movement of the upper and lower arm, at the same time guaranteeing very precise, comfortable and easily reproducible positioning. The head cushion is indexed, assuring a reproducible patient position throughout the total course of treatment.

The WingSTEP, especially adapted to fit through all common CT gantries to achieve precise planning, simplifies and expedites the radiation therapy procedure to increase time efficiency. In addition, even MRI or PET planning is possible since WingSTEP consists of high quality metal-free materials.

The WingSTEP can be used on all brands of couches available on the market for diagnostic and radiotherapy environment use, and is also indexable for enhanced reproducibility.

WingSTEP
Patient positioning = treatment accuracy

Facile positioning and precise repositioning
Reproducible, flexible arm and wrist support
Minimizes patient movements of arms and wrists
High comfort in breast and thorax positioning
Suitable for CT, MRI and PET planning
High quality metal-free materials
Easy fit through CT aperture
Easy handling and high quality
Maximum stability and durability
Integrated indexing system
The WingSTEP system is designed for routine breast and thorax positioning with big CT apertures (bore Ø > 70cm). It allows facile positioning and precise repositioning combined with outstanding comfort. The system includes the WingSTEP baseplate, a set of two wrist and two arm supports and the standard blue pillow. It can be reproducible attached to tabletops with the integrated Indexing Systems by using industry standard indexing bars.

Art.-Nr. P10107-741

The WingSTEP system is designed for routine breast and thorax positioning with small CT apertures. It allows facile positioning and precise repositioning combined with outstanding comfort. The system includes the WingSTEP baseplate, a set of two wrist and two arm supports and the standard blue pillow. It can be reproducible attached to tabletops with the integrated Indexing Systems by using industry standard indexing bars.

Art.-Nr. P10107-740

Select the appropriate pillow for the patient and place it on the WingSTEP.

Before the first use: Click in the upper and lower arm support on the ball joint.

Set the WingSTEP system on the treatment table.

Position the patient’s head on the head support. Place the patient’s arms above the head into the upper and lower arm supports.
BreastSTEP

Patient positioning = treatment accuracy

BreastSTEP™ guarantees high comfort and facile positioning, assuring a reproducible patient position throughout the total course of treatment.

The BreastSTEP is designed to improve the accuracy of radiation therapy for the breast, thorax and upper abdomen areas in a patient-friendly and non-invasive manner.

The BreastSTEP consists of a base plate and an upper plate made of a low-density foam core covered with thin layers of carbon fiber. It allows the beam to pass through the BreastSTEP from any angle with minimal attenuation.

Further features of the BreastSTEP are the indexed aperture for placing head supports the bottom stop and the adjustable height arm and wrist support, which allows a very facile customized patient positioning.

The BreastSTEP can be positioned at four different upper heights, 18 upper arm and eight lower arm options which comfortably positions and supports the arms above the head in supine position.

This progressive patient positioning system allows for comfortable positioning whenever accurate and reproducible patient positioning is an essential prerequisite for optimized therapy schedules.

The BreastSTEP can be used on all brands of couches available on the market for diagnostic and radiotherapy settings.

Facile positioning and precise repositioning
Minimizes patient movements of arms and wrists
High comfort in breast and thorax positioning
Reproducible arm and wrist support
4 different plate heights, in 5° steps
Arm support - height adjustment with 3 numbered positions
Arm support - rotatable in 6 numbered positions (15° steps)
Wrist support - height adjustment with 2 different positions
Wrist support - 4 numbered positions in 30° steps
Easy handling and high quality
Integrated indexing system

Keeping still is a tough job - better take assistance
The BreastSTEP system is designed for routine breast and thorax positioning. It allows four different upper heights, 18 arm and eight wrist support options. The BreastSTEP Conventional is for use on tabletops without indexing.

Art.-Nr. P10107-721

![BreastSTEP Conventional](image)

The BreastSTEP system is designed for routine breast and thorax positioning. It allows four different upper heights, 18 arm and eight wrist support options. The BreastSTEP Conventional is for use on tabletops without indexing.

Art.-Nr. P10107-721

**System BreastSTEP Conventional**

The BreastSTEP system is designed for routine breast and thorax positioning. It allows four different upper heights, 18 arm and eight wrist support options. The BreastSTEP Conventional is for use on tabletops without indexing.

Art.-Nr. P10107-721

**System BreastSTEP Indexed**

The BreastSTEP system is designed for routine breast and thorax positioning. It allows four different upper heights, 18 arm and eight wrist support options. It can be reproducible attached to tabletops with integrated indexing systems by using industry standard indexing bars.

Art.-Nr. P10107-720

**Set the BreastSTEP on the tabletop.**

**Select the appropriate position of the upper body from four different possibilities using the height adjustment system.**

**Select and adjust the appropriate position of the hips.**

**Select the appropriate position of the upper arms with different heights and angles of the arm support system.**

**Adjust the wrist support systems to the appropriate position.**

**Position the patient’s head on the head support and place the patient’s arms above the head into the arm and wrist support.**

**Slide Stop**

Slide stop prevents patients from sliding down the board.

Art.-Nr. P10107-428

**Pillow Standard blue**

Head support cushion for BreastSTEP, standard blue.

Art.-Nr. P10107-241

**Pillow High blue**

Head support cushion for BreastSTEP, high blue.

Art.-Nr. P10107-221

**PU Cover**

Art.-Nr. P10107-220 PU Cover for Arm Support (2 pcs.)

Art.-Nr. P10107-221 PU Cover for Wrist Support (2 pcs.)

Art.-Nr. P10107-420

**BreastSTEP simple steps**

Set the BreastSTEP on the tabletop.

Select the appropriate position of the upper body from four different possibilities using the height adjustment system.

Select and adjust the appropriate position of the hips.

Select the appropriate position of the upper arms with different heights and angles of the arm support system.

Adjust the wrist support systems to the appropriate position.

Position the patient’s head on the head support and place the patient’s arms above the head into the arm and wrist support.
Hip and Pelvic Positioning and Immobilization
Keeping still is a tough job - better take assistance

BodyFIX
Patient positioning = treatment accuracy

BodyFIX BlueBAG hip setup
The BodyFIX BlueBAG Hip is available for abdominal and pelvis treatment applications including prostate and cervical tumors.

BodyFIX BlueBAG total body setup
BodyFIX BlueBAG Total Body cushion offers comfortable and reproducible patient positioning for total body positioning.

For further detailed information please refer to pages 58-67
The new BellySTEP™ foam based positioning system provides one of the most comfortable devices available on the market. The three different size belly inserts guarantee customized bowel displacement. This allows high precision repositioning in routine pelvic and belly positioning.

The BellySTEP is designed to reduce the irritated small bowel volume of patients to facilitate a proper and comfortable prone position during pelvic area treatment.

The BellySTEP consists of a foam based baseplate covered with artificial leather, interchangeable belly inserts and the BellySTEP prone pillow. All BellySTEP parts are made of polyethylene foam which offers patients high comfort without compromising stability.

The BellySTEP allows for patient friendly, non-invasive positioning whenever accurate and reproducible patient positioning is an essential prerequisite for optimized therapy schedules.

It simplifies and expedites the radiation therapy procedure to increase time efficiency.

In addition, even MRI or PET planning is possible since the BellySTEP consists of high quality metal-free and non conductive materials.

BellySTEP
Patient positioning = treatment accuracy

Facile positioning and precise repositioning
Minimizes patient movements
High comfort in belly and pelvic positioning
Three different inserts
Prone position pillow
Foam based bellyboard
Consistent patient comfort
Suitable for CT, MRI and PET planning
System BellySTEP
The BellySTEP system is designed for the positioning of the belly and pelvis area. It includes the BellySTEP baseplate, three different interchangeable inserts and the prone position pillow.

BellySTEP Base Plate
Made of polyethylene foam and covered with artificial leather for easy disinfection.

Art.-Nr. P10107-760

BellySTEP Insert A - Medium
Insert A is a polyethylene cushion that fits into the BellySTEP baseplate. Made for patients with a normal belly. Double skinfoam coated.

Art.-Nr. P10107-161

BellySTEP Prone Position Pillow
The prone position pillow brings the patient’s head into the same comfortable position.

Art.-Nr. P10107-164

BellySTEP Insert B - Large
Insert B is a polyethylene cushion that fits into the BellySTEP baseplate. Made for patients with a big belly. Double skinfoam coated.

Art.-Nr. P10107-162

BellySTEP Insert C - Small
Insert C is a polyethylene cushion that fits into the BellySTEP baseplate. Made for patients with a small belly. Double skinfoam coated.

Art.-Nr. P10107-163

Position the patient onto the BellySTEP, starting cranially and sliding into the caudal direction. The pubic bone must be positioned in the caudal aperture for an optimal reduction of the small bowel volume.

Position the patient head on the prone position head support. Place the crossed arms of the patient over the BellySTEP prone position pillow.

Set the BellySTEP baseplate on the table top. Select the appropriate belly insert and snap it into the baseplate.

BellySTEP simple steps

BellySTEP – basic components

BellySTEP – configuration
The ProSTEP™ is designed to improve the accuracy of the positioning and repositioning of the lower abdomen and extremities.

This system combines the advantages and the functionality of the FeetSTEP and the KneeSTEP, which are available in both ABS and carbon fiber quality.

By using both cushions together with the ProSTEP base plate, performance is enhanced, especially when treating in the pelvic area.

On the lower end of the base plate, the KneeSTEP can be adjusted and eventually combined with KneeSTEP elevation blocks to acquire the optimal height and comfort.

The mounted sliding bed for the FeetSTEP allows 17 different longitudinal (1.5 cm steps) and 10 different indexed angular adjustment positions (5° steps).

Because of the indexed positioning of the lower extremities, the ProSTEP guarantees high precision repositioning in the pelvic area, thus simplifying and expediting radiation therapy. The ProSTEP base plate is compatible with two pin indexing bars and can be used on all brands of couches available on the market for diagnostic and radiotherapy settings.

Facile positioning and precise repositioning
KneeSTEP in combination with elevation blocks
Mounted sliding bed adjusted with FeetSTEP
17 different indexed longitudinal adjustment positions (1.5 cm steps)
10 different indexed angular adjustment positions (5° steps)
High comfort in pelvic position
Carbon or hard plastic cushions
Comfortable patient positioning
Easy handling and high quality
Integrated indexing system
ProSTEP Carbon
The ProSTEP Carbon system is designed for the positioning of the lower abdomen and the extremities. Offering 17 longitudinal and 10 angular positions with integrated indexing system.

ProSTEP ABS
The ProSTEP ABS system is designed for the positioning of the lower abdomen and the extremities. Offering 17 longitudinal and 10 angular positions with integrated indexing system.

ProSTEP simple steps
Set the ProSTEP system on the table top.
Select the appropriate position of the feet with the sliding bed system of the FeetSTEP.
Choose the appropriate position of the legs with the sliding bed system of the FeetSTEP.
Select the appropriate position of the KneeSTEP if necessary, use the elevation blocks for height adjustment.
Position the patient onto the ProSTEP.

FeetSTEP
Feet support cushion, fast, easy and accurate feet positioning, flexible handles on both sides, with two integrated indexing positions. Available in carbon fiber or hard plastic.

ART.-NR.
P10107-182
FeetSTEP ABS

P10107-183
FeetSTEP Carbon

KneeSTEP
Knee support cushion, fast, easy and accurate knee positioning, flexible handles on both sides, with three integrated indexing positions. Available in carbon fiber or hard plastic.

ART.-NR.
P10107-180
KneeSTEP ABS

P10107-181
KneeSTEP Carbon

KneeSTEP Elevation Block ABS
Distance cushion for the elevation of the KneeSTEP in hard plastic, with integrated indexing system.

ART.-NR.
P10107-184
KneeSTEP Elevation Block ABS

ProSTEP – configurations
ProSTEP – basic components
Miscellaneous Positioning Products
BlueBAG™ Vacuum Cushions offer one of the most advanced vacuum cushion technology available today.

BlueBAG Vacuum Cushions create a comfortable, stable and precise mold of the patient’s position. The method is very simple: when a negative pressure of about 650 mbar is initially generated in the cushion, the BlueBAG retains its shape and ensures integrity of the patient mold for up to six weeks.

BlueBAG Vacuum Cushions facilitate reproducible positioning of the patient, from imaging to treatment and subsequent treatment fractions, while preserving patient comfort and improving the clinical workflow.

Manufactured entirely from radiotranslucent materials, BlueBAG Vacuum Cushions provide consistent artifact-free image clarity with minimal beam attenuation.

The combination of high quality coating materials with a special filling of polystyrene spheres ensures a highly conformal, patient-specific mold.

Specially coated nylon material enables smooth mold definition, comfortable patient positioning and ease of cleaning. All materials are engineered to resist radiation degradation in the clinical environment, providing long life expectancy.

BlueBAG Vacuum Cushions are available for a range of clinical setups and indications such as head and neck, thorax, hip and total body.

Accurate, non-invasive patient positioning
Patient mold integrity for up to six weeks
Precise, passive patient positioning
Flexible and reliable
Easy to clean, reusable and environmentally friendly
Easy to set up and handle
Adaptable to various clinical surroundings
BlueBAG – basic components

BlueBAG Vacuum Pump
This high quality vacuum pump is a mandatory component of the BlueBAG system, which provides over 650-mbar vacuum, thus ensuring long lasting integrity of the patient's mold.

BlueBAG Cleaning Fluid
The BlueBAG Cleaning Fluid is a disinfectant available for use on BlueBag.

BlueBAG Vacuum Cushion for Breast and Thorax
For breast treatment, one or both arms are usually placed sideways with the hands located under the head. The BlueBAG Thorax is specially made for various treatment applications including breast, lung or abdominal tumors.

BlueBAG Vacuum Cushion for Hip
The BlueBAG Hip molds the patient's body from above the hip down to the feet. Different sizes are available for smaller or larger patients. The BlueBAG Hip is specially made for various treatment applications including prostate or ovarian tumors.

BlueBAG Vacuum Cushion for Total Body
The BlueBAG Total Body molds the patient from the head down to the feet. The BlueBAG Total Body is specially made for various abdominal and pelvis treatment applications including prostate or ovarian tumors.

BlueBAG – reusable components

BlueBAG rectangular shape

BlueBAG special shapes

BlueBAG for Elekta Stereotactic Bodyframe
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