



# Radiation Oncology 2010 Sourcebook

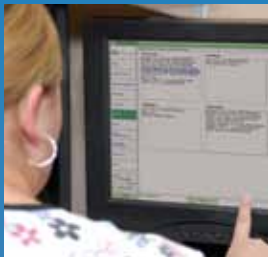
*SBRT | Positioning & Immobilization | IGRT  
Robotics | Physics/QA | Custom Blocking*



# New Products



Look for the “new” symbol throughout this catalog to find new innovations from CIVCO including:



**RFSuite™**  
Pages 4-5



**Respisens Motion Tracking**  
Page 8



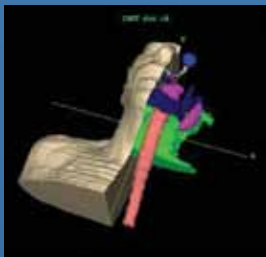
**Protura™ 6DOF Robotic System**  
Page 9



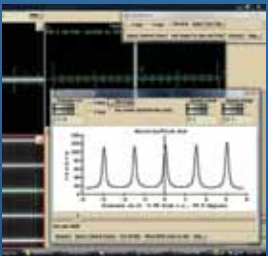
**Universal Couchtop™**  
Pages 12-13



**Proton Devices**  
Page 73



**Dosimetry Check IGQA™**  
Page 80



**LeafLine QA**  
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**ISIS QA Phantom**  
Page 81

Dear Customer,

In 2009 we saw the world economy in turmoil. Many hospitals and free standing facilities severely limited their capital equipment budgets while waiting for signs of recovery.

Despite real improvements in the markets in Q3, potentially devastating reductions in CMS reimbursement were proposed for 2010 for the United States. The worst may not come to pass, but the proposal still succeeded in sustaining the anxious mood in many medical specialties.

In this tumultuous time, the question we considered carefully was how CIVCO should best approach innovation and product development.

We filtered our new product ideas through many familiar concepts: efficiency, accuracy, outcomes based, cost effective, innovative, and enabling. I invite you to review these exciting new products and consider how they will impact your practice and your patients:

- **Protura 6DOF Robotic System** – page 9 – Protura is a comparatively low cost solution to enable robotic corrections for IMRT and hypofractionation (SBRT and SRS). Available for modern linac pedestals, Protura is a great way to start robotic delivery quickly and effectively.
- **Universal Couchtop** – pages 12-13 – We are proud to release our new Universal Couchtop, our first couchtop in a few years, which features SBRT support, 7cm indexing, low attenuation, CT overlays with DoseMatch™ Technology and low deflection values.
- **RFSuite** – pages 4-5 – RFSuite provides in-room QC to assure that the right patient and devices are on the table. This product can also track patients throughout the department so that your staff knows where they are or where they were seen last.
- **Dosimetry Check** – page 80 – IGRT demands image based QA. Dosimetry Check IGQA uses your existing portal imager to calculate dose and overlay the results on the treatment plan. Dosimetry Check IGQA is a great solution for IMRT (RapidArc and VMAT).
- **Leafline MLC QA** – page 81 – Leafline allows you to use your already existing IGRT equipment to run industry standard QA tests. Using the portal imager for MLC QA is quicker, easier and less expensive.
- **Respisens Motion Tracking** – page 8 – The simple, low cost and highly effective Respisens module is comprised of two simple probes, looking much like diodes. Placed on the couch and the patient’s skin, Respisens monitors patient motion during the treatment.

I urge you to examine these new products as well as others featured in our Sourcebook. See the list at the left for a more comprehensive list of our new releases.

As we look forward to 2010, we will continue our efforts to bring you new tools to support your needs in Radiation Oncology while remaining sensitive to the world around us.

Best Regards,

Marc Mlyn, CMD MBA  
Vice President of Marketing, Radiation Oncology

# Product Directory



## RFSuite™ Tracking & Verification..... 4-5

Comprehensive RFID tracking and verification system



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CIVCO's SBRT Body Pro-Lok™ System and RespiSense Motion Tracking



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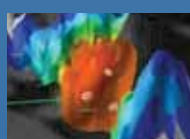
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## RFSuite™ Tracking & Verification System

CIVCO's RFSuite system provides a comprehensive tracking system for improving clinical workflow. RFSuite utilizes RF technology to track patients, personnel, charts, film jackets and patient positioning/treatment devices. RFSuite provides automatic verification and documentation of the patient's daily setup as well as verifying that the correct patient is being treated, reducing the risk of setup errors.

### RFSuite Components

- **RFTrak™** - Tracking software
- **RFSeries™** - CIVCO RFID enabled positioning/treatment devices

### Tracking

RFSuite provides a snapshot of the facility viewing all RFID badges and tags and their location. The ability to locate patients and treatment devices from any RFSuite workstation improves workflow and can reduce wait time for both the patient and staff.

#### Benefits of Patient & Personnel Tracking:

- Improved staff communication by using RFSuite as opposed to walking the department
- Potential to decrease patient wait time while improving staff productivity
- Improved clinical workflow

### Asset Management

CIVCO's RFSeries provides a broad array of products which are RF enabled including:

- Positioning devices such as Thermoplastic Masks, Headrests, Breastboards, Bellyboards and Vac-Lok™ Cushions
- Custom Block and Compensator Trays
- Patient Charts
- Film Jackets
- Non-clinical devices

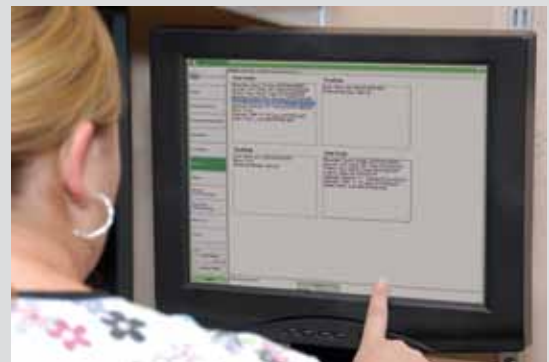
Asset tracking allows treatments to run smoothly by decreasing the time staff spends looking for devices within the facility.

#### Benefits of Asset Management:

- Ability to keep track of RF enabled devices helping to ensure they are kept in the proper locations
- Ability to customize the location screen on RFTrak to match the users preference
- Enable staff to locate charts, film jackets, personnel and positioning/treatment devices with ease from a workstation rather than manually checking the facility



At check-in patients receive a customized RF tag



RFTrak allows you to quickly locate patients and personnel throughout your facility



RFSeries provides a broad array of products with RF tags

## Patient Positioning & Treatment Device Verification

For the first time, accessory verification and documentation of the patient's daily setup is automated; RFSuite provides a level of "above the couchtop" verification never before achieved with conventional R&V systems.

Before treatment, the therapist uses RTrak to call up the patient's treatment setup sheet and a listing of all RFSeries enabled positioning devices associated with the daily treatment setup appear on the monitor. Patient setup information is viewable by monitors located within the treatment vault and at the treatment console.

RTrak software assists in ensuring that the correct patient and the prescribed RF enabled patient positioning/treatment devices are present on the treatment couchtop otherwise a warning message prompts the therapist to correct the setup or override the software.

The system stores a daily record of all patient setups along with every RF enabled device used. The software provides a means to generate either an electronic PDF file or a hard copy printout. All information is stored on the RFSuite central server and can be accessed at any time.

### Benefits of Treatment Accessory Verification:

- Enables the clinician by confirming patient and setup are correct, decreasing patient setup errors
- Documents and stores all daily patient setup records verifying the clinical setup devices used
- Electronic and hardcopy record output along with historical data storage



**Available soon!**

**Contact your account representative for a complete RFSuite demonstration and consultation!**

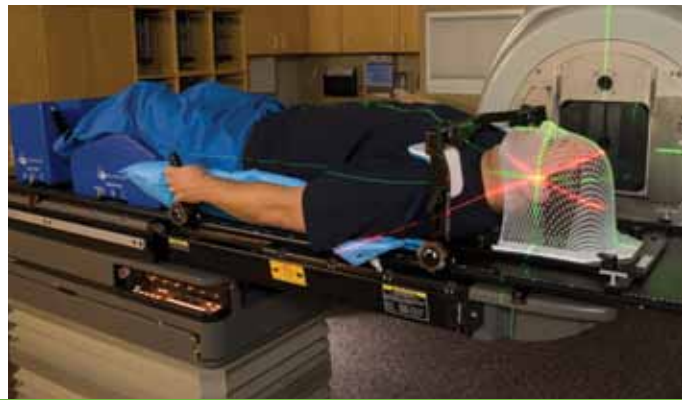
# SBRT Body Pro-Lok™

The modular Body Pro-Lok system aids in providing comfortable patient positioning and immobilization for numerous technologies including SBRT, Rapid Arc™, Tomotherapy, VMAT, IMRT, and Protons. Body Pro-Lok's bridge system provides numerous immobilization options for complex setups. The platform allows you to use most two-pin indexable positioning and immobilization devices including Vac-Lok™ cushions, head & neck fixation devices and arm supports. The patient transfer device provides an efficient way to transfer immobilized patients between imaging suites and treatment rooms.



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Body Pro-Lok System (includes 1-Pro-Lok Platform, 2-Patient Handles, 2-Type 1 Bridges, 2-Type 2 Bridges, 1-Type 3 Bridge, 4-T-Pin Lok-Bars, 1-Shoulder Restraint, 1- Transfer System (2-bases, 3-skis), 1-Forehead Restraint, 1-8" Clam-Lok Cushion, 1 Velcro Strap) MTSBRT001



***"Higher doses, less damage, fewer treatments put SBRT at the forefront of RT's future."***  
 - Amy Lillard. "SBRT - The New Treatment of Choice." Imaging Technology News. 48:7 (2008): 28-31.

## Storage Options

Two storage options, a cart and a wall mounted unit, are available. The Storage Cart is custom-designed to store and transport the Body Pro-Lok system. The shelves provide space to store accessories. The cart provides easy transportation from room to room and excellent storage space. For centers where a storage cart is not feasible, the Wall Storage Unit is an innovative solution. With specific locations for each bridge type and a shelf for the remaining accessories, this storage solution neatly organizes all components of Body Pro-Lok.



Storage Cart MTSBRT203

**NEW**



Wall Storage Unit MTSBRT224

Coming Soon!

## SBRT Body Pro-Lok™ Accessories



Pro-Lok Platform | MTSBRT002



Transfer System | MTSBRT011  
Velcro Strap | 20CFHN017



T-Pin Lok-Bar | MTSBRT009



Type 1 Bridge | MTSBRT006  
Type 2 Bridge | MTSBRT007  
Type 3 Bridge | MTSBRT031



Forehead Restraint | MTSBRT018



Shoulder Restraint | MTSBRT010



Patient Handle | MTSBRT005  
Patient Handle (mirror) | MTSBRT0051



Clam-Lok Cushion | MTSBRT202



Respiratory Plate (optional) | MTSBRT003



Respiratory Belt (optional) | MTSBRT004

*CIVCO's SBRT Body Pro-Lok bridges can attach directly to the Universal Couchtop with the use of a small clamp converter. See pages 12-13 for more information on the Universal Couchtop.*

***"Body Pro-Lok offers a reproducible setup that is attainable during each treatment successfully with minimal movement or change to the patient's setup."***

- Patty Strain, RTT - Methodist Healthcare - Memphis, Tennessee

Patents Pending

# Respisens Motion Tracking NEW

## Motion tracking has never been this easy...

In Radiation Therapy, targeting a tumor with precision while it is constantly moving due to respiration or patient motion is not an easy task. Today's delivery technology and modalities (such as SBRT) demand a high level of accuracy and precision. Using IGRT to find a tumor and identify critical structures is not enough – your patients need to be immobilized and monitored for intrafraction motion.

Respisens is an innovative device for patient motion tracking during Radiation Therapy treatments. The system consists of a miniature transmitter/receiver that measures the distance between two probes. If placed on the thorax or abdomen, Respisens tracks patient breathing and thus helps monitoring breath holds or out of threshold motion. If placed on a motionless part of the patient, it helps to verify his/her immobility. Watching patients on a monitor from several yards away is not an effective or efficient method for monitoring patient motion.



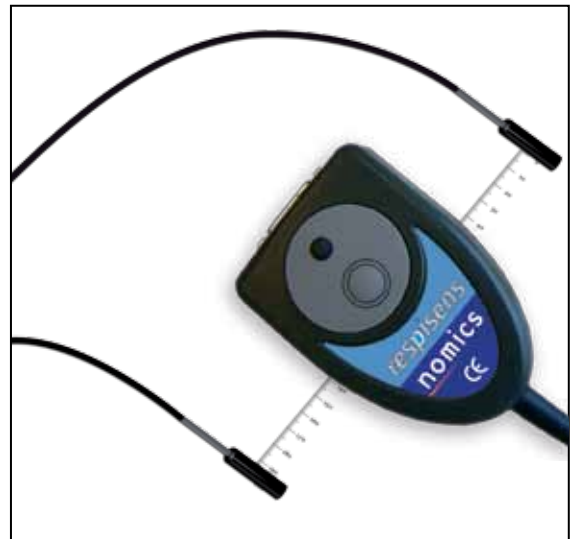
Respisens Probe Placement

### Features:

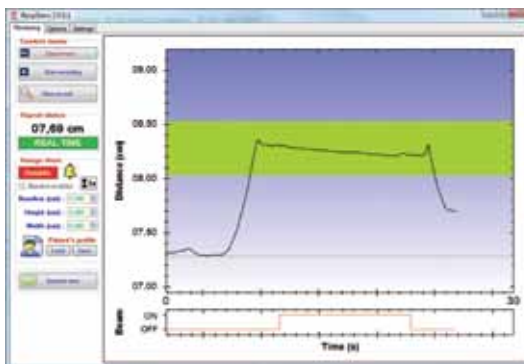
- Non-invasive and re-usable on patients
- Easy to use and quick to install
- Accuracy and dependability have been proven in Europe
- Affordable compared to other motion detection solutions
- Compatible with all existing linear accelerators

### Technical Specifications:

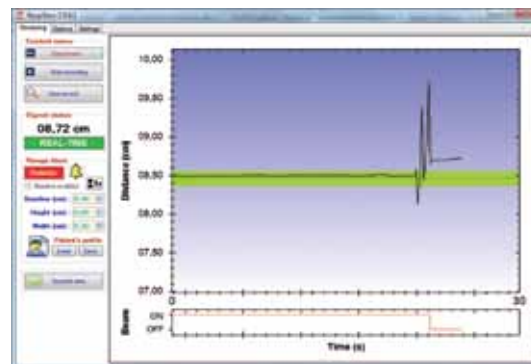
- Highly sensitive magnetic distance sensor – measures small movements down to 0.1mm
- Real-time interface box with serial connection to PC
- Extension cord to Respisens module (Customizable length, Standard is 15 meters (590.55"))
- Audible alarm
- Medical grade isolation
- User friendly software



Respisens Probes and Receiver



Monitoring Inspiration Breath Hold



Detecting Patient Motion with a Sensitivity of 0.1mm

Consider adding this product to our SBRT Body Pro-Lok™ for a cost effective hypo-fractionation solution you can trust.

CE Marked. 510k Pending. Not available in all markets, check with your account representative for availability.

# Protura™ 6DOF Robotic System NEW

Sleek and elegant, Protura features unmatched flexibility and will work with most linear accelerators. When combined with CIVCO's Universal Couchtop™ and SBRT Body Pro-Lok™, Protura becomes an all-in-one motion management solution.



Protura features a virtual pivot point always at the isocenter which allows for accurate adjustment, in-room touch screen controls and a control panel with indicator lights located on the couch. Additionally, the new robotic couch supports patients up to 200kg and facilitates easy patient loading with a 15cm height during loading. The next generation treatment top has low attenuation and excellent image quality. Protura is compatible with all IGRT coordinate systems and supports CIVCO's SBRT Body Pro-Lok attachments.

## Technical Specifications

- +/- 5cm travel in X & Y directions
- +/- 2.5cm travel in Z direction
- +/- 3° rotation in pitch, roll and yaw
- Adjustable speed from 4-16mm/second



## Benefits of an Indexed Carbon Fiber Couchtop

As technology advances it becomes increasingly important to have radiation-friendly treatment devices. Indexable carbon fiber couchtops and overlays provide you with a radiation-friendly base creating fewer image artifacts and more treatment plan options.



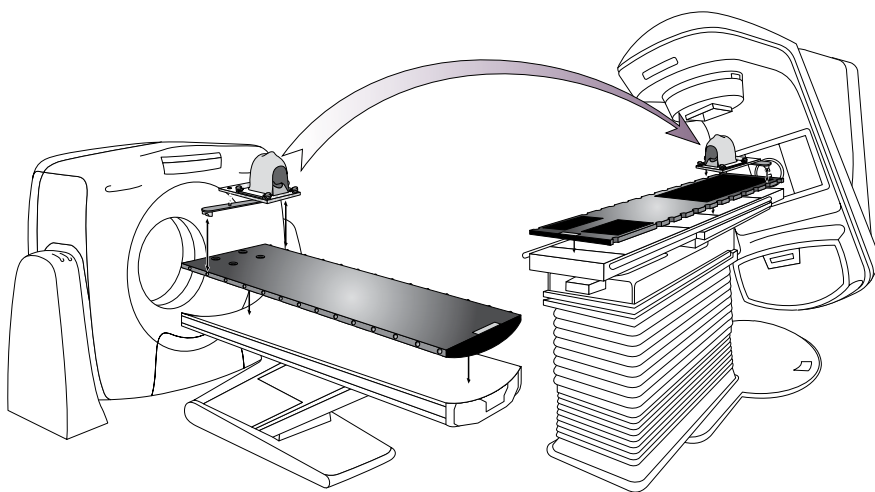
Carbon Fiber Couchtop

### *Difference Between a Couchtop and Overlay*

An overlay lays on top of the cradle, existing support frame and/or spine of a CT, simulator or LINAC. For LINACS, an overlay will still result in the need to rotate the table in order to avoid the beam passing through the underlying steel support. A couchtop replaces the steel support system of the LINAC with a carbon fiber support system, eliminating the need for table rotation. An indexed overlay is necessary for a CT to ensure that your positioning devices are in the correct location from room to room. These overlays are lightweight and can easily be removed between uses on a non-dedicated CT.



Carbon Fiber Overlay

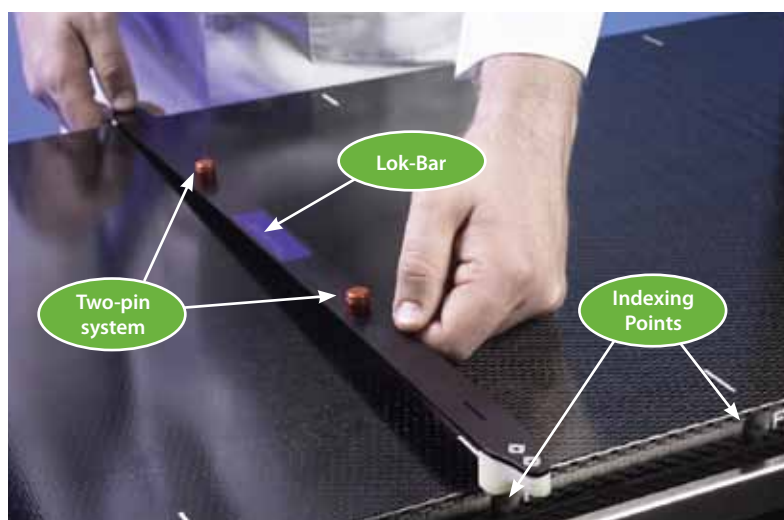
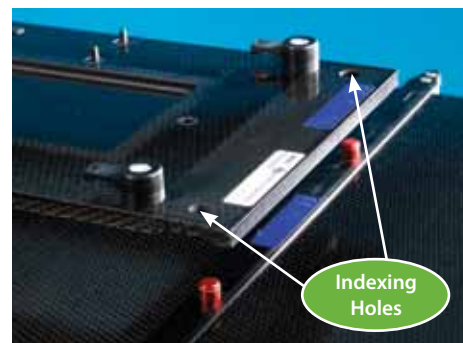


### *Benefits of Indexing*

CIVCO's carbon fiber couchtops and overlays also provide an indexing system for CIVCO's wide variety of patient positioning and fixation accessories. This innovative system allows a patient positioning device to transfer accurately between couchtops and overlays and quickly lock into the same location daily on the treatment table.

## How Indexing Works

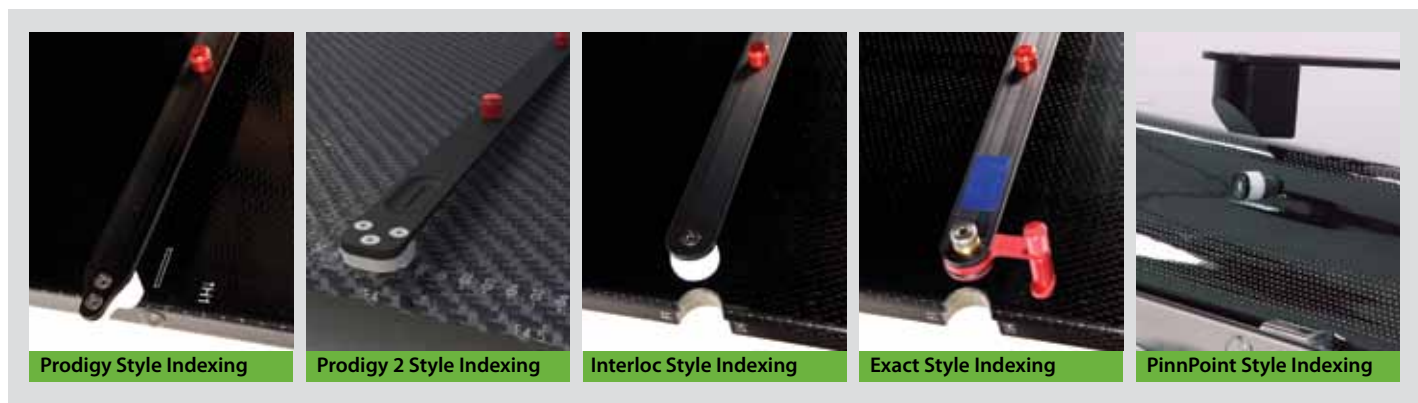
Every Indexed Patient Positioning System™ begins with an indexed couchtop or overlay. These tops are constructed of rigid carbon fiber and feature an array of indexing points running down the side of the couchtop, each spaced an identical 14cm apart or 7cm apart on the Universal Couchtop. A Lok-Bar™ is also provided with every couchtop or overlay. Every Lok-Bar features two pins that interface with the two holes on CIVCO's line of patient positioning and fixation devices. Lok-Bars remain with the couchtop.



To index a product, attach the Lok-Bar to any of the multiple indexing points running longitudinally along the edges of the couchtop or overlay. Then set the patient positioning device on the two-pins on the Lok-Bar. Indexing patient positioning and fixation devices to the same indexing notches for every treatment ensures that your device is in the same location and is "square" with the couchtop for every treatment. This definitive repositioning of the device relative to the treatment table allows clinicians to confidently tighten the tolerance window in the record-and-verify system – an important enhancement. **The result: increased target accuracy with increased patient throughput.**

### Types of Indexing

Four different types of indexing are available. The **Prodigy™** indexing system features protruding hemisphere style indexing notches and is the most versatile system for your treatment plans. The **Prodigy 2** indexing system features a smaller version of Prodigy indexing and is available only on the Universal Couchtop. The **Interloc®** indexing system features notched style indexing points. The **Exact®** indexing system is designed for the Varian Exact notched style indexing couchtops. **PinnPoint™ Indexing** has small indexing cylinders that protrude from the couchtop. This indexing system can be used with Aluminum Rails and PinnPoint Lok-Bars (see page 18).





# Universal Couchtop™



**SBRT Enabling | DoseMatch™ Technology**

The new Universal Couchtop is a strong, lightweight couchtop with low attenuation, ideal for IGRT tracking. The Universal Couchtop is also available in a dosimetrically matching CT overlay to assist in dose accuracy between planning and treatment. Contact your account representative to confirm DoseMatch technology is available for your CT Simulator.

The Universal Couchtop features a metal free extension seam with four extension choices: rectangular extension, Type-S™ extension, Posifix® extension (available soon) and Varian end plate. The unique profile allows CIVCO's SBRT Body Pro-Lok™ bridges to attach directly to the Universal Couchtop. The Universal Couchtop is capable of being installed on linac models from Elekta, Siemens and Varian. The CT overlay is compatible with seven different models from GE, Philips, Siemens and Toshiba.

**Features:**

- Wing profile that allows for attachment of Body Pro-Lok bridges for anterior immobilization and breath restriction options
- Extension seam that self locks and contains no metal
- Matching CT overlay for dosimetric consistency between simulation, treatment planning and treatment
- Low attenuation
- Utilizes Prodigy™ 2 indexing at every 7cm
- Gray inferior surface for better visualization of SSD and field light
- Optional accessory rail & patient handles



Universal Couchtop with Body Pro-Lok Bridge



Universal Couchtop carbon fiber extension seam

Description	Part Number
Couchtop for Siemens TxT or Protura, with end cap and Lok-Bar	MTIL6000
Couchtop for Siemens ZXT, with end cap and Lok-Bar	MTIL6001
Couchtop for Varian Exact, with end cap and Lok-Bar	MTIL6100
Couchtop for Elekta, with end cap and Lok-Bar	MTIL6200

## Package Options

The wing profile of the Universal Couchtop allows for easy attachment of Body Pro-Lok bridges, via a small adapter, providing anterior immobilization and breath restriction options. Body Pro-Lok bridges provide numerous immobilization options for complex setups. CIVCO currently offers two kit options for your convenience.

### Comprehensive SBRT (MTSBRT310)

Item	Part Number	Qty.
Type 1 Bridge	MTSBRT006	2
Type 2 Bridge	MTSBRT007	2
Type 3 Bridge	MTSBRT031	1
Prodigy 2 Lok-Bar	MTIL6050	3
Respiratory Plate	MTSBRT003	1
Respiratory Belt	MTSBRT004	1
Bridge Adapter Pair	MTIL6615	5
Belt Adapter Pair	MTIL6620	1
Forehead Restraint	MTSBRT018	1
Shoulder Restraint	MTSBRT010	1
Universal Couchtop Patient Handle - Right	MTIL662501	1
Universal Couchtop Patient Handle - Left	MTIL662502	1
8" Clam-Lok Cushion	MTSBRT202	2

### Respiratory Restriction (MTSBRT300)

Item	Part Number	Qty.
Type 1 Bridge	MTSBRT006	1
Type 2 Bridge	MTSBRT007	1
Respiratory Plate	MTSBRT003	1
Respiratory Belt	MTSBRT004	1
Bridge Adapter Pair	MTIL6615	2
Belt Adapter Pair	MTIL6620	1

See pages 6-7 for more information on CIVCO's Body Pro-Lok System.

## Available Accessories



Type-S™ Extension | MTIL6605



Rectangular Extension | MTIL6600



Posifix® Extension | MTIL6606

Available Soon!



Varian End Plate | MTIL6610



Prodigy™ 2 Lok-Bar | MTIL6050



Patient Handle, Right | MTIL662501

Patient Handle, Left | MTIL662502



Bridge Adapter, Qty. 2 | MTIL6615

Respiratory Belt Adapter, Qty. 2 | MTIL6620



Accessory Rail | MTIL6630

# Mastercouch®

For particular treatment areas, the Mastercouch provides more radiation-friendly treatment options. Standard couchtops often contain metal or less efficient carbon fiber parts which attenuate the beam and cause scatter in the region of interest. The Mastercouch provides a system to move these parts out of the treatment region.

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The modular Mastercouch system consists of a base to replace the existing treatment couch and is extended with a treatment module. This module extends the treatment field to provide a treatment field that is free from metal components. In addition, positioning accessories can be attached to the indexed positioning pivots mounted along both sides of the couch.

Module options include: a standard module, head & neck modules for either the Type-S™ or Posifix® systems and stereotactic treatment module.



The Mastercouch's rigid, precise snap-on system is located out of the treatment field and provides efficient exchange of treatment modules.

### Dosimetric Properties

Transmission: 6 MV SSD = 95cm d = 5cm  
 0.6cc ionization chamber 10 x 10cm

Open Field .....	100.0%
Mylar + Tennis Racket.....	99.7% (SE = 6 x 10 <sup>-2</sup> %)
Treatment Module.....	98.0% (SE = 2 x 10 <sup>-2</sup> %)
Treatment Module Through Support Bar.....	95.0% (SE = 2 x 10 <sup>-2</sup> %)

SE: standard error over three readings.

**The Mastercouch is available in several configurations for all popular LINACS and Simulators. Please contact your account representative for further details.**

## Treatment Modules



Standard Treatment Module



Type-S Head & Neck Treatment Module



Posifix Head & Neck Treatment Module



Stereotactic Treatment Module

## Module Storage

Compatible with the Standard, Head and Neck, Stereotactic Treatment and Type-S Modules.

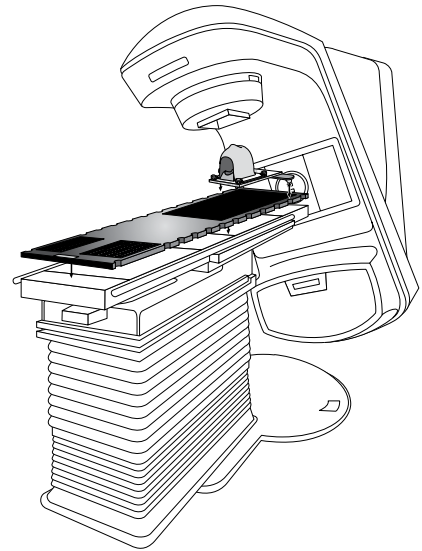


Mastercouch Module Storage | MTSIN013104

## Standard LINAC & Sim Couchtops & Overlays

Carbon fiber couchtops and overlays for linear accelerators and simulators provide both a radiation-friendly treatment surface and indexing capabilities. These couchtops and overlays have exchangeable panels, allowing the user to choose between a solid (foam core with a carbon fiber layer), tangential or a grid surface for your treatment.

Some couchtops and overlays come with additional treatment panels and accessories such as the Type-S™ head extension and Posifix® Extensions. Contact your account representative for complete information.



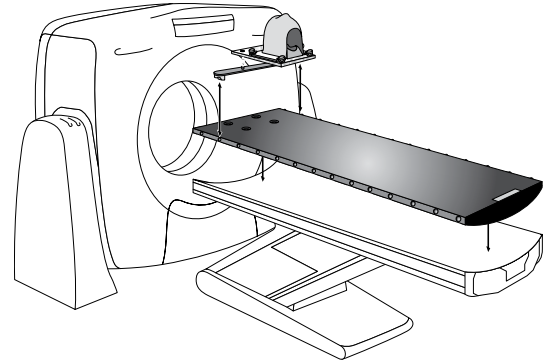
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*The following LINAC and simulator options are available:*

Description	Dimensions	Part Number
Siemens ZXT - Overlay	200 x 49.5 x 2.9cm	MTIL3000
Siemens ZXT - Couchtop with grid panel	200 x 53 x 2.2cm	MTIL3010
Siemens ZXT - Couchtop with solid panel	200 x 53 x 2.2cm	MTIL301004
Siemens TxT - Couchtop with grid panel	193 x 53 x 5.4cm	MTIL3015
Varian ETR - Overlay with grid panel	215 x 53 x 2.2cm	MTIL3100
Elekta Precise - Overlay with grid panel	230 x 50 x 2.2cm	MTIL3800
Elekta Precise - Overlay with solid panel	230 x 50 x 2.2cm	MTIL380001
Elekta Precise & Synergy - Couchtop with grid panel	191 x 53 x 7cm	MTIL380201
Varian Ximatron® ETR - Overlay with grid panel	225 x 48 x 2.2cm	MTIL3101
Nucletron Simulix MC Couchtop	252.6 x 53 x 7cm	MTIL3200
Nucletron Simulix HP Couch Insert	90 x 53 x 2.1cm	MTIL3202
Nucletron Simulix HP Couchtop	180 x 53 x 7cm	MTIL3206
Nucletron Simulix HQ Couchtop	251 x 53 x 7cm	MTIL3207
Kermath	<b>This product has not been CE marked.</b>	211 x 53 x 2.2cm
		MTIL4000

## Standard Imaging Overlays

Carbon fiber overlays securely lock onto a cradle, providing a surface consistent with treatment couchtops. They are lightweight and durable, allowing them to be easily removed or reinserted for use on non-dedicated imaging machines. The attachment mechanics ensure that once the top is reinserted on the cradle, it will be level and stable throughout the imaging process.



CT overlays are made of carbon fiber with a foam core. They have indexing options and come with a two-pin Lok-Bar™ providing a system for indexing positioning devices to the couchtop. MRI overlays are made of fiber glass with a foam core and have indexing options and come with a three-pin Lok-Bar providing a system for indexing MR compatible positioning devices.

*The following overlay options are available:*

CT Overlay for:	Dimensions	Part Number
Siemens SOMATOM Sensation (prior to August 2004)	245 x 53 x 3.2cm	MTIL3001
Siemens SOMATOM Emotion & Spirit	217 x 53 x 4.1cm	MTIL3008
Siemens SOMATOM Sensation (after August 2004)	245 x 53 x 3.2cm	MTIL3013
Siemens SOMATOM Sensation (after August 2004) - Interloc	245 x 53 x 3.2cm	MTIL3018
Siemens SOMATOM Definition	220 x 53 x 3.8cm	MTIL3019
GE Highspeed Advantage, Highspeed CT/I & Lightspeed QX/i	229 x 53 x 5.1cm	MTIL3300
GE Highspeed LX/i, Highspeed FX/i & Highspeed DX/i	229 x 53 x 5.1cm	MTIL3301
GE 9800, Highspeed Advantage (metal)	229 x 53 x 5.1cm	MTIL3302
GE Discovery LS	266 x 48 x 4.8cm	MTIL3306
GE Prospeed	228 x 50 x 3.4cm	MTIL3309
GE Discovery ST (H-power base)	266 x 53 x 4.8cm	MTIL3310
GE Lightspeed VCT & Discovery ST (Global base)	217 x 53 x 5.1cm	MTIL3311
Picker "Q" / Ultra Z	244 x 53 x 2.7cm	MTIL3500
Philips / Marconi MX8000	245 x 53 x 3.2cm	MTIL3502
Toshiba Asteion	213 x 53 x 4.2cm	MTIL3700
Toshiba Aquilion (Short)	201 x 53 x 4.2cm	MTIL3704
Toshiba Aquilion (Long)	231 x 53 x 4.2cm	MTIL3705
Siemens Biograph	239 x 53 x 2.7cm	MTIL4101



MRI Overlay for:	Dimensions	Part Number
Philips Panorama, 50cm wide	214 x 50 x 2.2cm	MTM3400
Philips Panorama, 40cm wide	214 x 40 x 2.2cm	MTM3401
GE Signa	208 x 50 x 4.8cm	MTM3300
Siemens Magnetom Avanto, Magnetom Espree, Magnetom Symphony A Tim System, Magnetom Trio A Tim System (Available Soon)	187 x 50 x 2.2cm	MTM3000
Siemens Magnetom Verio (Available Soon)	187 x 50 x 2.2cm	MTM3001

# Panels & Storage

## Treatment Panels

A solid treatment panel is available for the Varian Exact® couchtop, featuring Interloc™ indexing.

Various treatment panels are available for Siemens couchtops.



Varian Exact Solid Panel	MTIL3103
Siemens ZXT Solid Panel	MTZXTZ44069CS
Siemens ZXT Grid Panel	MTZXTZ44069CF
Siemens Posterior Grid Panel	MTIL301001
Siemens Tangential Panel	MTIL301002
Siemens Solid Panel	MTIL301003

## Foot Extension

A simple foot extension is available to maximize range for feet-first scans. The extension allows the patient's feet to extend up to 36cm off the end of the table. The Foot extension is designed exclusively for feet-first CT applications and is not suitable for use as a head extension.



Foot Extension, Interloc (shown)	MTIL3006001
Foot Extension, Prodigy	MTIL3006002
Foot Extension, Exact	MTIL3006003

## Overlay Stand

The Overlay Stand is ideal for shared CT rooms, where space is limited. The overlay stand creates a fast and effective way to store and protect your CT overlay between uses. The base and strap plate easily mount to the wall, allowing for quick access and out of the way storage. Upper straps secure the overlay between uses.



Overlay Stand | MTIL1104

## Overlay Storage

Compatible with most Overlays, Multifix, Posifix IMRT Baseplate (MTSIN108040), Kneefix Elevation Block and Carbon Fiber Couch Inserts.



Couchtop Storage | MTSIN013125

# Lok-Bars™

## Prodigy™ Lok-Bars

Prodigy Lok-Bars are for use with Prodigy style indexed couchtops. Lok-Bars are available in a variety of lengths and thicknesses, contact your account representative to find the correct Lok-Bar for your couchtop. The Slim Prodigy Lok-Bar has smaller side profiles. The Prodigy 2 Lok-Bar is for use with the Universal Couchtop.

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Prodigy Lok-Bar for 53cm wide couchtop	MTIL3650
Prodigy Lok-Bar for 50cm wide couchtop	MTIL3651
Slim Prodigy Lok-Bar for 53cm wide couchtop	MTIL3653
Prodigy 2 Lok-Bar for Universal Couchtop	MTIL6050

## Aluminum Rails

Aluminum Rails can be attached to all Posifix® and Posirest™ Baseplates and give the device the ability to be indexed to couchtops. A laterally adjustable aluminum rail allows the baseplate to slide laterally while holding the same longitudinal position. Some baseplates require the use of an additional intermediary piece.



Laterally Adjustable Rail (shown)	MTSIN651010
Standard Rail	MTSIN652010

## Medical Intelligence Lok-Bar

Provides a two-pin indexing system for Medical Intelligence couchtops enabling the use of CIVCO patient positioning and fixation devices.

## Interloc® Lok-Bars

Interloc Lok-Bars are for use with Interloc style indexed couchtops. Lok-Bars are available in a variety of lengths and thicknesses, contact your account representative to find the correct Lok-Bar for your couchtop.



Interloc Lok-Bar for 49.5cm wide couchtops	MTIL3051
Interloc Lok-Bar for 53cm wide couchtops	MTIL3151
Interloc Lok-Bar for 48cm wide couchtops	MTIL3350

## PinnPoint™ Indexing Two-Pin Lok-Bar

A PinnPoint Lok-Bar is now available for the PinnPoint Indexing System. This allows two-pin indexable products to be used with the PinnPoint Indexing system. Two different widths are available.



Two-Pin Lok-Bar (for 50-52cm wide couchtops)	MTIL5050
Two-Pin Lok-Bar (for 45.5-47.5cm wide couchtops)	MTIL5051



Medical Intelligence Transverse Lok-Bar	MTIL3950
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### Transverse Lok-Bar

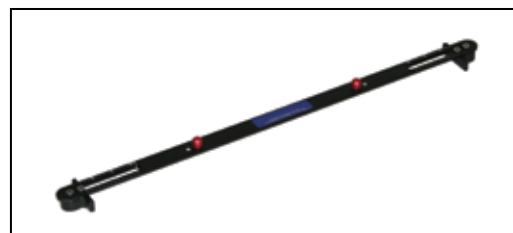


The Transverse Lok-Bar gives you the ability to move the two-pin system laterally across the couchtop giving you more options for positioning devices on your couchtop. The Transverse Lok-Bar is available in Prodigy™, Interloc®, PinnPoint and Exact® indexing styles.

Interloc - 53cm	MTIL3152
Exact - 53cm	MTVAR46
Prodigy - 53cm	MTIL3652
PinnPoint - 50-52cm	MTIL5052
PinnPoint -45.5-47.5cm	MTIL5053
Medical Intelligence	MTIL3950

### Slide Guide Lok-Bar

The Slide Guide Lok-Bar does not lock down to the indexing points along the couchtop but slides longitudinally along the couchtop. It is especially useful for longer devices such as bellyboards and breastboards and devices like Vac-Lok™ cushions which contract during forming.



Slide Guide Lok-Bar	MTVL00853
Transverse Slide Guide Lok-Bar	MTIL1006

### Accessory Rail Locking Block & Lok-Bar™

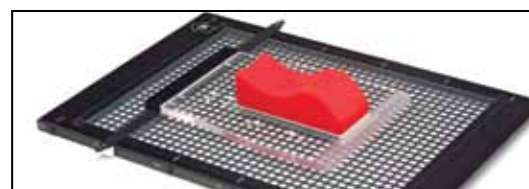
The Accessory Rail Locking Block locks various positioning aids to the rails along the side of the couchtop. A Lok-Bar can attach to the accessory Locking Block (shown below) to provide a two-pin system for couchtops without indexing.



Accessory Rail Locking Block, Right	MTARB001
Accessory Rail Locking Block, Left	MTARB002
Accessory Rail Lok-Bar	MTIL1000

### Two-Pin Adapter

This adapter piece can be screwed onto most Posifix® and Posirest™ baseplates that are not two-pin ready. This will make these products compatible with CIVCO's two-pin indexing system. Not compatible with the Posifix-4.



Two-Pin Adapter	MTSIN600251
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See page 72 for information on MRI three-pin Lok-Bars.

# Type-S™ Patient Positioning System

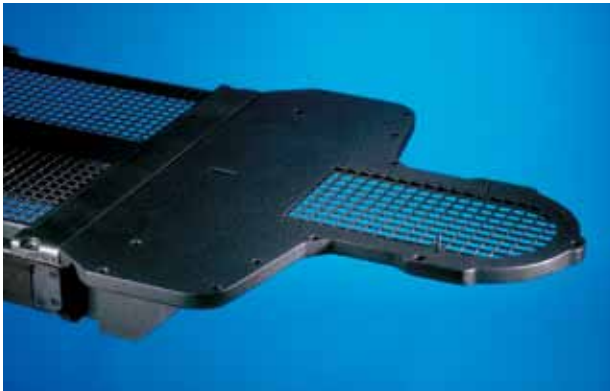
The Type-S System was developed to offer a high degree of stability for the head, neck and shoulders. The system is ideal for IMRT and conformal treatments in a 360° arc. The Type-S system features:

- Minimal attenuation
- CT-compatibility
- Accepts head-only or head, neck and shoulder thermoplastics
- Indexable

## Head Extension

The Type-S Head Extension hooks easily on the superior end of select LINAC couchtops. It comes with a reloadable head, neck & shoulder frame for Type-S thermoplastics.

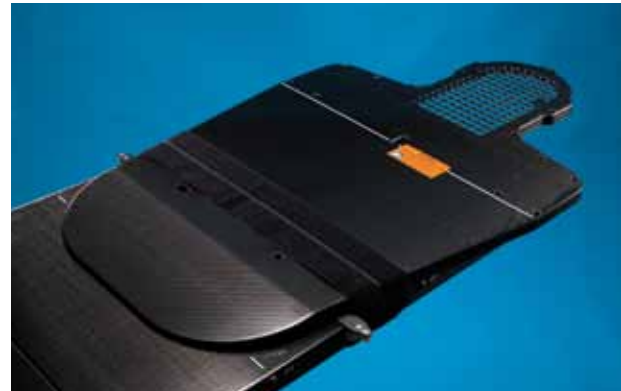
20



Extension w/ Carbon Fiber Frame	MTCFHNCV
Extension w/ ABS Frame	MTCFHNPV

## Overlay Board

The overlay board extends off the end of the treatment couch. It comes with a reloadable head, neck and shoulders frame for Type-S Thermoplastics.



Overlay w/ Carbon Fiber Frame	MTCFHNC
Overlay w/ ABS Frame	MTCFHNP

## Mastercouch® Module

Extends off the end of the Mastercouch to provide compatibility between the Mastercouch and the Type-S system.

See page 14 for more information on the Mastercouch.



Mastercouch Module w/ grid (shown)	MTSIN114221
Mastercouch Module w/out grid	MTSIN114222

## iBEAM® Overlay Adapter

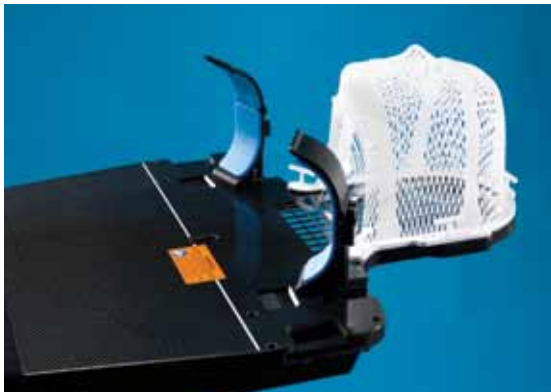
Created for the Medical Intelligence iBEAM and iBEAM EVO couchtops. The overlay is cantilevered, providing minimal attenuation in the area of treatment.



iBEAM Overlay Adapter	MTSIN108071
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### Fixator™ Shoulder Suppression System

The Fixator Shoulder Suppression System is designed to enhance the benefits of the Type-S™ system. The Fixator extends off the couchtop and includes adjustable padded positioners to gently cup the patients shoulders, capturing and positioning them out of the treatment field. Indexed nomenclature allows for easily-recorded shoulder repositioning. Type-S head-only IMRT Reinforced Thermoplastic™ masks are recommended for use with this system.



Fixator Shoulder Suppression System | MTCFHN006

### Type-S SRS Board

The Type-S SRS Board provides an inclined position for Stereotactic radiosurgery. It comes with a 1" thick pad for added comfort.



Type-S SRS Board w/ pad | MTCFHNSRS

This product has not been CE Marked.

### Variable Axis Baseplate

The Variable Axis Baseplate integrates with any Type-S Baseplate to provide a tilting movement with patient fixation in the prone and supine positions. The unique variable axis design allows for natural head and neck movement during patient set-up. The carbon fiber baseplate accommodates Type-S head-only thermoplastics. The Variable Axis Baseplate can accommodate the Prone Headrest (see page 36) with the use of the SIN301016 adapter plate (see page 37).



Variable Axis Baseplate with adapter plate and Prone Headrest.



Variable Axis Baseplate w/ Prone Cushion | MTCFHNVAB01

Prone Face Cushion | MTPFC01

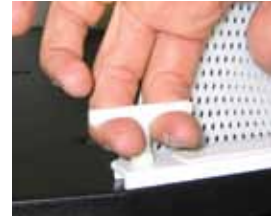


See pages 35-39 for compatible headrests.

# Type-S™ Thermoplastics

Type-S head-only or head, neck and shoulder thermoplastics provide clinicians with a wide variety of choices to meet the exacting needs of today's advanced treatments. Type-S thermoplastics provide a variety of options giving clinicians the ability to choose the right mask for each patient's specific treatment needs.

Type-S Thermoplastics feature the Safe-T Pin docking system which provides an efficient method for docking and undocking the mask to the Type-S System. The Safe-T Pins are easy to grasp and snap in and out.



**IMRT Reinforced Thermoplastics™** feature a combination of perforated and solid thermoplastics to provide rigidity. **Neck Relief Thermoplastic** masks combine the features of IMRT Thermoplastics with a larger hole pattern around the neck area to provide “windowing” and reduce potential bolus effects without compromising the integrity of the cast.

*All Type-S thermoplastics are sold in packages of 5.*



IMRT Reinforced Style 18 thermoplastic mask on the Fixator



IMRT Reinforced Style 27 Type-S thermoplastic mask



Disposable Type-S Head-only Thermoplastic (top), Reloadable Head-only Type-S Thermoplastic (right)



ABS Head-Only Frame MTCFHN001



Disposable Type-S Head, Neck & Shoulders Thermoplastic (top), Reloadable Head, Neck & Shoulders Type-S Thermoplastic (right)



ABS Head, Neck & Shoulders Frame	20CFHNSUB1P
Carbon Fiber Head, Neck & Shoulders Frame	20CFHNSUB1C

# Type-S™ Head-Only Thermoplastics

## Perforation Styles



Perforation Type	Frame Type	Length	Thickness	Part Number
Standard Perforated	Disposable	10"	2.4mm	MTAPUD2.4
Standard Perforated	Disposable	10"	3.2mm	MTAPUD
Standard Perforated	Reloadable	10"	1.6mm	MTAPUR1.6
Standard Perforated	Reloadable	10"	2.4mm	MTAPUR2.4
Standard Perforated	Reloadable	10"	3.2mm	MTAPUR
Standard Perforated	Disposable	12"	2.4mm	MTAPUD1224
Standard Perforated	Disposable	12"	3.2mm	MTAPUD1232
Standard Perforated	Reloadable	12"	1.6mm	MTAPUR121.6
Standard Perforated	Reloadable	12"	2.4mm	MTAPUR122.4
Standard Perforated	Reloadable	12"	3.2mm	MTAPUR12
Standard Perforated	Disposable	14"	2.4mm	MTAPUD1424
Standard Perforated	Disposable	14"	3.2mm	MTAPUD1432
Standard Perforated	Reloadable	14"	2.4mm	MTAPUR142.4
Standard Perforated	Reloadable	14"	3.2mm	MTAPUR14
IMRT Reinforced Style 18	Disposable	10"	2.4mm	MTAPUID1824
IMRT Reinforced Style 18	Disposable	10"	3.2mm	MTAPUID1832
IMRT Reinforced Style 18	Disposable	12"	3.2mm	MTAPUID181232
IMRT Reinforced Style 18	Disposable	14"	3.2mm	MTAPUID181432
IMRT Reinforced Style 18	Reloadable	10"	2.4mm	MTAPUIR1824
IMRT Reinforced Style 18	Reloadable	10"	3.2mm	MTAPUIR1832
IMRT Reinforced Style 20	Disposable	10"	2.4mm	MTAPUID2024
IMRT Reinforced Style 20	Disposable	10"	3.2mm	MTAPUID2032
IMRT Reinforced Style 20	Reloadable	10"	2.4mm	MTAPUIR2024
IMRT Reinforced Style 20	Reloadable	10"	3.2mm	MTAPUIR2032
IMRT Reinforced Style 22	Disposable	10"	3.2mm	MTAPUID2232
IMRT Reinforced Style 22	Reloadable	10"	3.2mm	MTAPUIR2232

*All Type-S thermoplastics are sold in packages of 5.  
See next page for head, neck and shoulder thermoplastic options.*

# Type-S™ Head, Neck & Shoulders Thermoplastics

## Perforation Styles



Perforation Type	Frame Type	Thickness	Part Number
Standard Perforated	Disposable	2.4mm	MTAPSD2.4
Standard Perforated	Disposable	3.2mm	MTAPSD3.2
Standard Perforated	Reloadable	2.4mm	MTAPS2.4
Standard Perforated	Reloadable	3.2mm	MTAPS3.2
IMRT Reinforced Style 27	Disposable	2.4mm	MTAPSID2724
IMRT Reinforced Style 27	Disposable	3.2mm	MTAPSID2732
IMRT Reinforced Style 27	Reloadable	2.4mm	MTAPSI2724
IMRT Reinforced Style 27	Reloadable	3.2mm	MTAPSI2732
IMRT Reinforced Style 29	Disposable	2.4mm	MTAPSID2924
IMRT Reinforced Style 29	Disposable	3.2mm	MTAPSID2932
IMRT Reinforced Style 29	Reloadable	2.4mm	MTAPSI2924
IMRT Reinforced Style 29	Reloadable	3.2mm	MTAPSI2932
IMRT Reinforced Style 27, Neck Relief	Disposable	2.4mm	MTAPSID27NR24
IMRT Reinforced Style 27, Neck Relief	Disposable	3.2mm	MTAPSID27NR32
IMRT Reinforced Style 27, Neck Relief	Reloadable	2.4mm	MTAPSI27NR24
IMRT Reinforced Style 27, Neck Relief	Reloadable	3.2mm	MTAPSI27NR32
IMRT Reinforced Style 29, Neck Relief	Disposable	2.4mm	MTAPSID29NR24
IMRT Reinforced Style 29, Neck Relief	Disposable	3.2mm	MTAPSID29NR32
IMRT Reinforced Style 29, Neck Relief	Reloadable	2.4mm	MTAPSI29NR24
IMRT Reinforced Style 29, Neck Relief	Reloadable	3.2mm	MTAPSI29NR32

All Type-S thermoplastics are sold in packages of 5.

## ZENTEC™ Soft-Drape Thermoplastics

The revolutionary ZENTEC material combines rigidity with a smooth, easy-forming process. The soft-drape effect results in a high-contouring mask. These masks also require less heating and setup time, providing increased efficiency.

ZENTEC is available for the Type-S™ system and features a continuous frame design for stability and immobilization.

ZENTEC masks are available in IMRT Reinforced styles for secure patient fixation.

ZENTEC masks come with a disposable frame and have a thickness of 2.4mm.

*All ZENTEC thermoplastics are sold in packages of 5.*



Type-S Head-Only | MTAPUID1824VT



Type-S Head, neck & shoulders | MTAPSID2724VT

## Posifix® Baseplates

Posifix head and neck baseplates are designed for use with the Posicast thermoplastic masking system. Posifix baseplates are available in two sizes, head-only baseplates and larger T-shaped head, neck and shoulders baseplates. Both shapes are available in a carbon fiber version and an acrylic version for all cases where the low attenuating properties of carbon fiber are not required. The head-only baseplates are compatible with head-only Posicast® Thermoplastics and the head, neck and shoulders baseplates are compatible with head-only and head, neck and shoulders Posicast Thermoplastics (*see pages 28-29 for more information on Posicast thermoplastics*). Baseplates are compatible with the two-pin indexing system and can also be fixed to aluminum rails.

### Posifix-4

Carbon fiber baseplate for head fixation.



Posifix-4 Baseplate - Carbon Fiber

MTSIN104021

### Posifix-5

Acrylic baseplate for head fixation.



Posifix-5 Baseplate

MTSIN105021

### Posifix-2

Carbon fiber baseplate for head and shoulder fixation.



Posifix-2 Baseplate - Carbon Fiber

MTSIN102021

### Posifix-1

Acrylic baseplate for head and shoulder fixation.

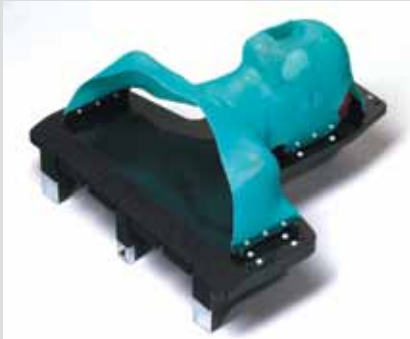


Posifix-1 Baseplate - Carbon Fiber

MTSIN101019

# Posifix® Specialty Baseplates

## IMRT Baseplates for Head, Neck and Shoulder Fixation



IMRT Baseplate  
Compatible w/Varian  
Exact  
MTSIN108010



Mastercouch Module  
MTSIN114220

IMRT Baseplates are made of a low density foam core, covered with ultra-thin layers of carbon fiber and are easily hooked onto the cranial end of the treatment couch to allow 360° treatment without compensation.

IMRT Baseplates are available for several treatment couches. Contact your account representative or local distributor to verify compatibility.

## iBEAM® Overlay Adapter

Created for the Medical Intelligence iBEAM and iBEAM EVO couchtops. The overlay is cantilevered, providing minimal attenuation in the area of treatment.



iBEAM Overlay Adapter, Posifix  
MTSIN108070

## Positilt™

The Positilt is a tilting baseplate made of low density foam covered with ultra-thin layers of carbon fiber. The Positilt enables the head to be positioned at six angles towards the couchtop plane. The Positilt can be easily attached to all Posifix baseplates including the IMRT Baseplates and the Posifix Mastercouch Module.



Positilt  
MTSIN107020



See pages 35-39 for compatible headrests.

# Posicast® Thermoplastics



Posicast thermoplastic material has been specifically developed for radiotherapy applications and provides excellent positioning and reproducibility during treatment. It does not stick to the skin or hair. If needed, Posicast adheres to itself by applying local pressure. The patented composition of this unique product results in minimal shrinkage after cooling.

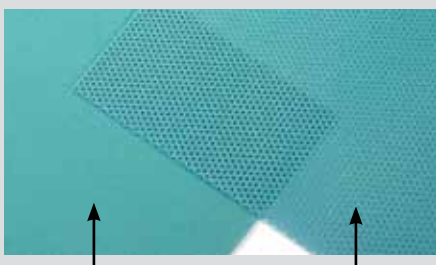
Posicast thermoplastic materials are available in Multiperfo and Microperfo versions depending on the selected material. Microperfo masks are preferred when small sized treatment fields are to be marked onto the mask.

## Posicast

Posicast has a soft polyurethane coating on both sides guaranteeing ultimate comfort in handling. It is available in Multiperfo and Microperfo.

## Posicast-Plus

Posicast-Plus has two different coatings: a soft polyurethane coating on the side which is in direct contact with the patient's skin and a smooth spray-coating on the outside where treatment fields are to be marked directly onto the mask. Posicast-Plus material is comfortable to the skin and offers the possibility of precise field marking. Minimal shrinkage of the material ensures rigid and reproducible fixation. Posicast-Plus is only available in Microperfo.



Microperfo

Multiperfo

## Posicast-Lite

With a smooth spray coating on both sides, Posicast-Lite feels like a traditional thermoplastic. However, its polycaprolactone core ensures a rigid and reliable fixation. Posicast-Lite is only available in Microperfo.



## Precuts

CIVCO offers a wide variety of thermoplastic precuts. Rectangular plates are available allowing technologists to cut the material in any desired shape. **All types are sold in sets of 10 pieces.** The materials have a thickness of 2.3mm. Precuts are available with reloadable or disposable L-profile mask attachment handles.

## L-profiles for Mask Attachment

By using radiotranslucent L-profiles fitted with durable quick fasteners, a rigid mask can be molded around the contours of the patient. With this method air gaps between the inside of the mask and the head of the patient are prevented, resulting in a very reliable, stable mask.

Reusable Carbon Fiber L-profiles are attached to the desired precut before making a mask and remain on for the duration of treatment. Disposable L-profiles come attached to a mask and are a quick, cost effective alternative to reusable carbon fiber L-profiles.



L-profiles set of 10



MTSIN622510

# Posicast® Precuts



Precut PR33



Precut PR3



Precut PR44



Precut PR5



Precut PR55



43 x 60cm Plate PL4360



43 x 92cm Plate PL4392

*Precuts shown with disposable L-profiles are also available alone for use with reusable L-profiles. Not all precuts are available with disposable L-Profiles.*

## Part Numbers for Posicast® Precuts without L-profiles

Precut Type	Posicast Multiperfo	Posicast Microperfo	Posicast-Plus Microperfo	Posicast-Lite Microperfo
PR33	MTSIN900033	MTSIN910033	MTSIN920033	MTSIN770033
PR3	MTSIN900030	MTSIN910030	MTSIN920030	MTSIN770030
PR44	MTSIN900044	MTSIN910044	MTSIN920044	MTSIN770044
PR5	MTSIN900145	MTSIN910145	MTSIN920145	MTSIN770145
PR55	MTSIN900055	MTSIN910055	MTSIN920055	MTSIN770055
PL4360	MTSIN904360	MTSIN914360	MTSIN924360	MTSIN774360
PL4392	MTSIN904392	MTSIN914392	MTSIN924392	MTSIN774392

Posicast-Plus Microperfo thermoplastics are available globally. Check with your account representative for availability of other Posicast thermoplastics.

## Part Numbers for Posicast Precuts with Disposable L-profiles

Precut Type	Posicast Multiperfo	Posicast Microperfo	Posicast-Plus Microperfo	Posicast-Lite Microperfo
PR33	MTSIN940033	MTSIN950033	MTSIN930033	MTSIN772033
PR3	MTSIN940030	MTSIN950030	MTSIN930030	MTSIN772030
PR44	MTSIN940044	MTSIN950044	MTSIN930044	MTSIN772044
PR5	MTSIN940145	MTSIN950145	MTSIN930145	MTSIN772145
PR55	MTSIN940055	MTSIN950055	MTSIN930055	MTSIN772055

Posicast-Plus Microperfo thermoplastics are available globally. Check with your account representative for availability of other Posicast thermoplastics.

*All Posicast Thermoplastics are sold in packages of 10.*

## Posifix® Baseplate Storage

### Two-Pin Baseplate Storage

Compatible with all two-pin Posifix® and Posirest™ baseplates and most other two-pin ready baseplates, please verify with your account representative.



Two-Pin Baseplate Storage

MTSIN013159

### Posifix® & Posirest Baseplate Storage

Compatible with Posifix Baseplates with attached aluminum rails.

*See page 26 for more information on Posifix Baseplates.*



Posifix Baseplate Storage

MTSIN013101

### Posifix IMRT Baseplate Storage

Compatible with MTSIN108010 and MTSIN108210 Posifix IMRT Baseplates.

*See page 27 for more information on Posifix IMRT Baseplates.*



Posifix IMRT Baseplate Storage

MTSIN013106

### Mastercouch® Module Storage

Compatible with the Standard, Head and Neck, Stereotactic Treatment and Type-S Mastercouch Modules.

*See page 14 for more information on Mastercouch Modules.*



Mastercouch Module Storage

MTSIN013104

# Uni-frame® Baseplates

The Uni-frame head and neck fixation system provides rigid immobilization for enhanced image quality, as well as consistent patient posture through imaging, simulation and treatment procedures. Every Uni-frame baseplate is indexable.

Available in carbon fiber or acrylic, the baseplates feature a cutout area under the headrest for visualization and treatment. They utilize easy-to-use swivel clamps for locking down a variety of thermoplastic mask options.

## Tilting Baseplates

Tilting baseplates adjust for angles from 0° to 45° and are ideal for pituitary treatments. The product line includes a carbon fiber baseplate with a square base cutout for posterior treatment fields and three acrylic baseplates: one with an “I” shaped base for posterior oblique treatment angles and two with a cutout base.



See pages 35-39 for compatible headrests.

# Uni-frame® Thermoplastics

Uni-frame thermoplastics are one of the industry's most popular choices. They provide the rigid fixation necessary for today's radiotherapy treatment techniques. They are available with a disposable or reloadable frame and in a variety of perforation styles and thicknesses. A standard Uni-frame mask measures 9 x 10"; extended lengths are available for additional neck fixation. **Wide Uni-frame Masks** feature a thinner frame providing an expanded area of thermoplastic material to use.

**IMRT Reinforced Thermoplastics™** feature a combination of perforated and solid thermoplastic designed to provide rigidity. **ComfortPerf® thermoplastics** feature a special perforation pattern around the eyes and mouth, adding to patient comfort.

*All Uni-frame thermoplastics are sold in packages of 5.*

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Patient in a standard perforated reloadable Uni-frame mask.



Disposable Thermoplastic (Left) vs. Reloadable Thermoplastic (Right)

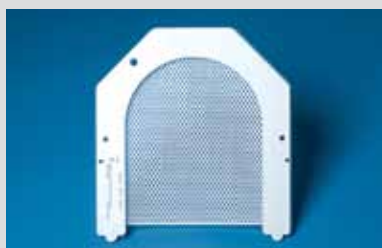
Reloadable ABS Frame

MTAPUR1



Reloadable frame with thermoplastic snapped out

## Uni-frame Mask Styles



Standard Perforated Uni-frame Mask



Wide Uni-frame Mask



ComfortPerf Uni-frame Mask



IMRT Reinforced Thermoplastic, Style 18, Uni-frame Mask



IMRT Reinforced Thermoplastic, Style 20, Uni-frame Mask



IMRT Reinforced Thermoplastic, Style 22, Uni-frame Mask

*Uni-frame® Thermoplastics*

Perforation Type	Frame Type	Length	Thickness	Part Number
Standard Perforated	Disposable	10"	1.6mm	MTAPU1.6
Standard Perforated	Disposable	10"	2.4mm	MTAPU2.4
Standard Perforated	Disposable	10"	3.2mm	MTAPU
Standard Perforated	Reloadable	10"	1.6mm	MTAPUR1.6
Standard Perforated	Reloadable	10"	2.4mm	MTAPUR2.4
Standard Perforated	Reloadable	10"	3.2mm	MTAPUR
Standard Perforated	Disposable	12"	1.6mm	MTAPU121.6
Standard Perforated	Disposable	12"	2.4mm	MTAPU122.4
Standard Perforated	Disposable	12"	3.2mm	MTAPU12
Standard Perforated	Reloadable	12"	1.6mm	MTAPUR121.6
Standard Perforated	Reloadable	12"	2.4mm	MTAPUR122.4
Standard Perforated	Reloadable	12"	3.2mm	MTAPUR12
Standard Perforated	Disposable	14"	1.6mm	MTAPU141.6
Standard Perforated	Disposable	14"	2.4mm	MTAPU142.4
Standard Perforated	Disposable	14"	3.2mm	MTAPU14
Standard Perforated	Reloadable	14"	2.4mm	MTAPUR142.4
Standard Perforated	Reloadable	14"	3.2mm	MTAPUR14
Standard Perforated	Disposable - Wide	10"	2.4mm	MTAPUW2.4
Standard Perforated	Disposable - Wide	10"	3.2mm	MTAPUW
Standard Perforated	Disposable - Wide	12"	2.4mm	MTAPUW122.4
Standard Perforated	Disposable - Wide	12"	3.2mm	MTAPUW12
ComfortPerf®	Disposable	10"	2.4mm	MTAPUCP201
ComfortPerf	Disposable	10"	3.2mm	MTAPUCP301
ComfortPerf	Reloadable	10"	3.2mm	MTAPURCP301
IMRT Reinforced Style 18	Disposable	10"	2.4mm	MTAPUI1824
IMRT Reinforced Style 18	Disposable	10"	3.2mm	MTAPUI1832
IMRT Reinforced Style 18	Reloadable	10"	2.4mm	MTAPUIR1824
IMRT Reinforced Style 18	Reloadable	10"	3.2mm	MTAPUIR1832
IMRT Reinforced Style 20	Disposable	10"	2.4mm	MTAPUI2024
IMRT Reinforced Style 20	Disposable	10"	3.2mm	MTAPUI2032
IMRT Reinforced Style 20	Reloadable	10"	2.4mm	MTAPUIR2024
IMRT Reinforced Style 20	Reloadable	10"	3.2mm	MTAPUIR2032
IMRT Reinforced Style 22	Disposable	10"	3.2mm	MTAPUI2232
IMRT Reinforced Style 22	Reloadable	10"	3.2mm	MTAPUIR2232

*All Uni-frame thermoplastics are sold in packages of 5.*

## Prone Head Holder

The Prone Head Holder features gel chin and forehead pads. This accessory unit integrates to the acrylic standard supine baseplate (MT20100 - see page 31) or to the carbon fiber standard supine baseplate (MT20100CF - see page 31) for patient fixation with a Uni-frame® thermoplastic mask. A Vac-Lok™ Cushion is also available for added comfort.

34



Prone Head Holder | MT202



Prone Head Holder with Vac-Lok Cushion | MT202VL

Prone Vac-Lok Cushion with 0.355 Liter fill | MTLV27A

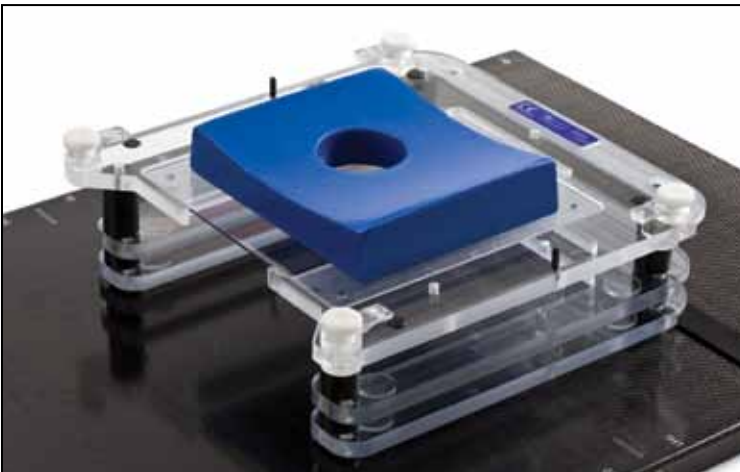
Prone Vac-Lok Cushion with 0.5 Liter fill | MTLV27B



Prone Head Holder on the Carbon Fiber Supine Baseplate

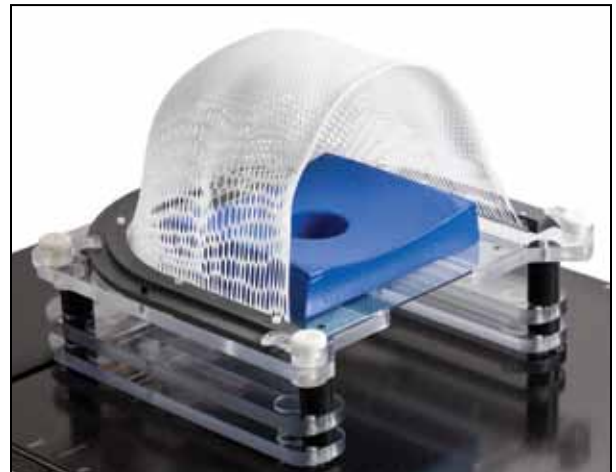
## Lateral Baseplate

The Lateral Baseplate is specially padded for comfortable, reproducible lateral head & neck positioning. It accepts a special-width reloadable frame and thermoplastics. **Thermoplastics are sold in packages of 5.**



Lateral Baseplate (with head cushion & reloadable frame) | MTLTBP

Lateral Head Cushion | MTLTBIAT



Reloadable Lateral Frame | MTLTBP2

Perforated 3.2mm Thermoplastic - Qty. 5 | MTAPUL

Perforated 2.4mm Thermoplastic - Qty. 5 | MTAPUL.4

## Headrests

### Timo Headrests

Timo headrests are constructed of durable polyurethane foam with a washable coating. Six various heights and contours offer a comprehensive range of neck angulations. They are available plain or with Lexan plates for use with Uni-frame® baseplates.

**Compatible with Uni-frame Baseplates, Variable Axis Baseplate, and all Wing Boards™. Also compatible with MT-350 and MT-250 breastboards with special adapter plate.**

**Contact your account representative for more Timo options.**

### Silverman Headrests

With a Silverman, no transmission correction is necessary for most high-energy beams. Silverman headrests can be purchased individually or in sets of six with six various sizes.

**Silverman headrest shape may vary. Compare with any existing Silverman headrest to ensure that the proper fit is reproduced for treatment cycle.**

**Compatible with Uni-frame Baseplates, Type-S™ Baseplates and all Wing Boards™.**

**Contact your account representative for more Silverman options.**

### Posifix® Supine Headrests

Special 3-D formed Posifix headrests are made of low density polyethylene foam, in five colors. The **red cushion** positions the head with the neck straight to prevent anterior curving of the spinal cord in the treatment field. The **black cushion** is used for neck tumors and has the same curvature but is extended in the caudal direction. The **yellow and white cushions** enable the chin to be more or less extended to move the oral cavity and mandible out of the radiation field, or to obtain a cranial field border which avoids the orbit (ear and parotid treatment). The **blue cushion** allows the chin to be fixed towards the breast.

**Compatible with all Posifix and Posirest™ Baseplates and the C-Qual™ Breastboard. Compatible with Uni-frame Baseplates and the Variable Axis Baseplate via the Adapter Cushion (see page 37). Compatible with Type-S, baseplates and Wing Boards via the Posi-S Adapter (see page 37).**



Timo - Set of 6	MTTIMO
Timo w/Lexan Plates - Set of 6	MTTIMOL
Timo Size A (red)	MTTIMOA
Timo Size B (green)	MTTIMOB
Timo Size C (blue)	MTTIMOC
Timo Size D (brown)	MTTIMOD
Timo Size E (yellow)	MTTIMOE
Timo Size F (grey)	MTTIMOF



Silverman - Set of 6	MTSILVER
Silverman Headrest A	MTSILVERA
Silverman Headrest B	MTSILVERB
Silverman Headrest C	MTSILVERC
Silverman Headrest D	MTSILVERD
Silverman Headrest E	MTSILVERE
Silverman Headrest F	MTSILVERF



Posifix Headrest - Set of 5	MTSIN305000
Posifix Headrest - Black	MTSIN301001
Posifix Headrest - Red	MTSIN301002
Posifix Headrest - Yellow	MTSIN301003
Posifix Headrest - White	MTSIN301004
Posifix Headrest - Blue	MTSIN301005

# Headrests

## Posifix® Contoured Headrests

As an alternative to standard supine headrests, we offer three contoured headrests in the same curvature as the standard red, yellow and white headrests. The contoured headrests are wider and higher and completely surround the back of the head, reducing lateral, longitudinal and rotational movement during setup and treatment.

**Compatible with all Posifix and Posirest™ Baseplates and the C-Qual™ Breastboard. Compatible with Uni-frame Baseplates and the Variable Axis Baseplate via the Adapter Cushion (see page 37). Compatible with Type-S, baseplates and Wing Boards via the Posi-S Adapter (see page 37).**



Contoured Headrests - set of 3	MTSIN301234
Contoured Headrests - orange	MTSIN301022
Contoured Headrests - yellow	MTSIN301023
Contoured Headrests - white	MTSIN301024

## Posifix Prone Headrest

The Prone Headrest is specially designed for treatments of cranial lymphatic nodes or brain tumors with the patient in the prone position. The 3-D shaped contour supports chin and forehead and therefore assists in creating a reproducible and comfortable position.

**Compatible with all Posifix Baseplates as well as Uni-frame baseplates and the Variable Axis Baseplate using an adapter cushion MTSIN-301016 or Posi-S™ Adapter (see page 37). Compatible with Type-S baseplates via the Posi-S Adapter (see page 37).**



Prone Headrest	MTSIN301025
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## Posifix Pediatric Headrests

Pediatric headrests are designed for use with pediatric patients. A prone headrest and a supine headrest are each available in bright and glossy colors.

**Supine Headrest - Compatible with all Posifix and Posirest™ Baseplates and the C-Qual™ Breastboard. Compatible with Uni-frame Baseplates and the Variable Axis Baseplate via the Adapter Cushion (see page 37). Compatible with Type-S, baseplates and Wing Boards via the Posi-S Adapter (see page 37).**

**Prone Headrest - Compatible with all Posifix Baseplates as well as Uni-frame baseplates and the Variable Axis Baseplate using an adapter cushion MTSIN-301016 or Posi-S™ Adapter (see page 37). Compatible with Type-S baseplates via the Posi-S Adapter (see page 37).**



Pediatric Supine Headrest	MTSIN301026
Pediatric Prone Headrest	MTSIN301027

# Headrest Accessories

## Posifix® Carbon Fiber Blocks and Wedges

Carbon fiber elevation blocks and wedges provide versatility with Posifix baseplates. The blocks are used to lift the head in the cushion area and are excellent for patients with kyphosis whose extreme spinal curvature does not allow them to lay flat. The wedge has a 7° angle and can be used for hyperextension of the neck. Wedges of 5, 10 and 15° are also available.

*Compatible with all Posifix and Posirest™ Baseplates.*



15mm Elevation Block	MTSIN107315
30mm Elevation Block	MTSIN107330
7° Wedge	MTSIN107107

## Cushion Adapters

The use of the Posifix Supine, Contoured, Carbon Fiber, Prone and Pediatric Headrests is not limited to use with the Posifix positioning system. Adapter cushions are available enabling these headrests to fit other baseplates. The MTSIN301016 Cushion Adapter is compatible with all Uni-frame® Baseplates and the Variable Axis Baseplate.

*Contact your account representative to verify compatibility.*



Adapter shown at left	MTSIN301015
Adapter shown at right	MTSIN301016

## Posi-S™ Adapter

The Posi-S Adapter provides a solution for utilizing any Posifix headrest on the Type-S™ system. The adapter is constructed of carbon fiber providing durability and low attenuation.



Posi-S Adapter	MTSIN301028
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## Headrest Storage

Compatible with Timo, Silverman, Supine Headrests, Contoured Headrests, Carbon Fiber Headrests, Prone Headrest and Carbon Fiber Blocks and Wedges.



Headrest Storage	MTSIN013107
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## Accessories

### Shoulder Support Cushion

This wedge shaped cushion supports the shoulders and upper body of the patient. When placed over the Posifix®-1 or -2 baseplate, the contours of the baseplate hold the cushion firmly in place assisting in ensuring a reproducible setup of the patient throughout the total course of treatment. Used in combination with a 7° wedge, it will provide a hyperextension position of the patient. It can also be used with the Prone Head Support to straighten the spinal axis. A black version is available to fit on the Posifix Head & Neck Mastercouch Module.



Shoulder Support Cushion

MTSIN301040



Shoulder Support Cushion for Mastercouch Module

MTSIN301041

**Compatible with Posifix-1 or -2 Baseplates, black version compatible with the Posifix Mastercouch Module.**



### Couchtop Cover

The Couchtop Cover is a comfortable elevation mat that fits directly to the slope of the Posifix or Posirest™ Baseplate. It has the same thickness as the Posifix and Posirest baseplates and the cranial side has a negative slope that adapts to the baseplate and avoids a gap between the baseplate and the couchtop cover. Covers are available in 120 and 46cm lengths.



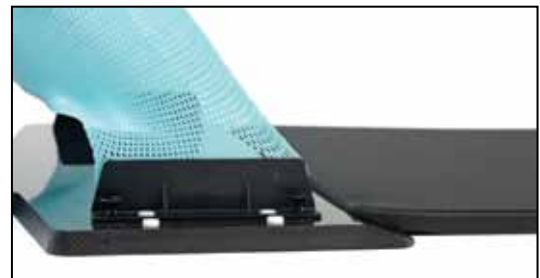
120 x 46cm Cover

MTSIN301090

46 x 46cm Cover

MTSIN301091

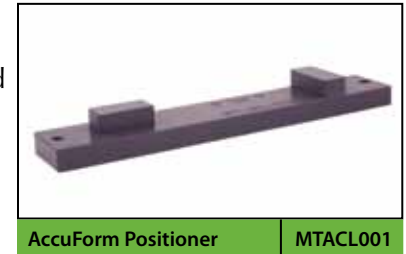
**Compatible with all Posifix and Posirest Baseplates.**



# Custom Headrests

## AccuForm™ Cushions

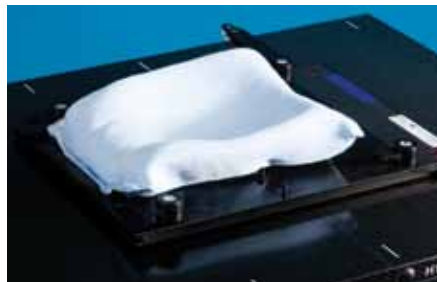
AccuForm Cushions are ideal for high-precision head and neck treatments when enhanced comfort, stability and repositioning accuracy are key. This soft, cloth-covered pillow is filled with tiny beads coated in water-curable resin. When sprayed with water, the cushion becomes pliable, allowing it to be formed to the patient's specific anatomical contours, including custom pitch and rise. After a few minutes the cushion forms a rigid, yet comfortable custom mold. The 15 x 20cm cushion is ideal for filling in gaps under a patient's head and neck on a standard headrest such as a Silverman while the 20 x 25cm can be used as a stand alone cushion. Single patient use product.



An AccuForm Positioner is also available for indexing an AccuForm cushion to Uni-frame® and Type-S™ baseplates.



Type-S AccuForm MTACLTYPE51



20 x 25cm AccuForm	MTACL14242
20 x 45cm AccuForm	MTACL2045
40 x 60cm AccuForm	MTACL4060
60 x 60cm AccuForm	MTACL6060



15 x 20cm AccuForm MTACL1520

## Head & Neck Vac-Lok™ Cushions

Vac-Lok custom-formed vacuum cushions provide comfortable support of the head and neck as well as the upper shoulders. Filled with tiny polystyrene beads, the cushion forms a rigid mold when a vacuum is pulled. The versatile system can be used to create a patient specific cradle, and is reusable after the patient treatment cycle is complete. Vac-Lok cushions are available in a variety of shapes and sizes in both polyurethane or nylon finishes. The nylon Type-S cushion is indexable.



50 x 70cm "T" Vac-Lok Cushion MTVL37



Type-S Vac-Lok Cushion MTVLTY501CX

See pages 62-65 for more information on Vac-Lok cushions.

# Individual Head Support

CIVCO's Individual Head Support provides customized head and neck positioning during radiation therapy treatment and diagnostic procedures. Using specially shaped impression foam combined with fabric-coated thermoplastic, the Individual Head Support gives clinicians the power to customize position and support to each patient.

The Individual Head Support is used to reposition and support the head and neck during therapy treatment and diagnostic procedures.

- Assists in maximizing fixation, stability and comfort while minimizing longitudinal, lateral and rotational movement of the patient
- Stable and compact due to thermoplastic top sheet and solid foundation in holder and ground plate
- Available for use with Type-S™ or Posifix® baseplates
- Available in both normal or hyper shapes

The Individual Head Support has been used with traditional thermoplastic masks, as well as with more rigid head frames, to deliver stereotactic radiation therapy as well as stereotactic radiosurgery.



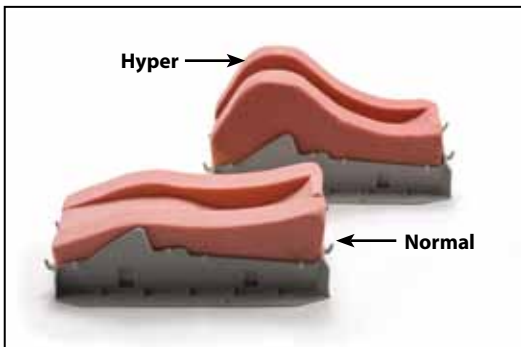
Impression Foam



Thermoplastic



Formed Individual Head Support



Foam shape comparison



Individual Head Support, Type-S Normal	MTIHS03
Individual Head Support, Type-S, Hyper	MTIHS04



Individual Head Support, Posifix Normal	MTIHS01
Individual Head Support, Posifix, Hyper	MTIHS02

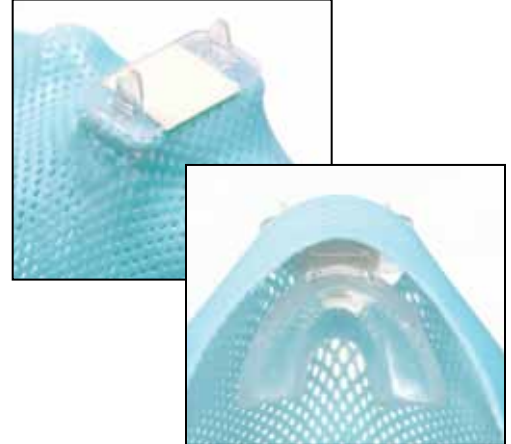
# Specialty Systems

## Precise Bite™ Patient Re-Positioner

The Precise Bite attaches easily to a thermoplastic cast and conforms to the teeth and/or maxilla, decreasing head and neck rotation, flexion and extension. The Precise Bite with tongue depressor assists in tongue displacement and provides an airway opening for easy breathing. **Precise Bites are sold in packages of 5.**

The positioner softens in warm water, then comfortably conforms to the patient's dental contours. After the dental positioner is set, a thermoplastic cast is pulled over the patient, and the Precise Bite docking plate simply snaps on top to secure the Precise Bite to the mask. The Precise Bite is compatible with Uni-frame®, Type-S™ and Posicast® thermoplastics.

The Precise Bite warmer allows you to soften a Precise Bite without a microwave or a large waterbath.



Precise Bite Standard, Qty. 5	MTCBPBITE
Precise Bite Small, Qty. 5	MTCBPBITES
Precise Bite with Tongue Depressor, Qty. 5	MTCBPBITETD
<b>NEW</b> Precise Bite Small with Tongue Depressor, Qty.5	MTCBPBITETDS



Warmer, 110 volt	MTCBPBITEWRM
This product has not been CE marked. Available in 110 volt only.	

## Shoulder Retractor

The Shoulder Retractor is often used in conjunction with thermoplastic-based fixation systems. Retraction is especially beneficial for shoulder clearance when opposing lateral fields are used to treat the neck. The Shoulder Retractor is constructed of PVC plastic with a large footboard and nylon tension ropes with a ball-in-socket locking feature that allows for reproducible tension in 1/2" increments.



Retractor with Handle Grip	MTSR01
Retractor with Sherpa Wrist Loops	MTSR02

## C-Qual™ Breastboard

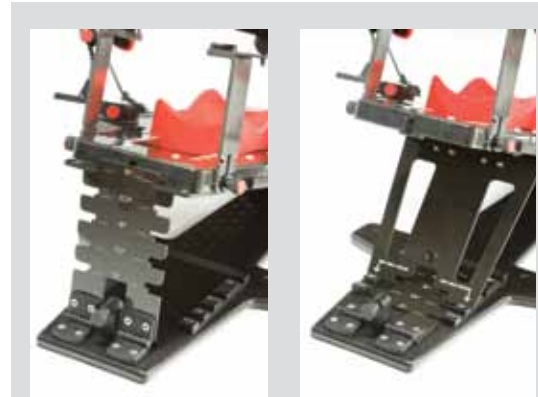
The C-Qual is a revolutionary breastboard, combining the latest in IGRT-enabling design with an enhanced emphasis on patient comfort. Designed with both the clinician and patient in mind, the C-Qual's advanced features bring new efficiencies to breast setup and treatment. The Sure-Set angulation support provides quick, secure elevation, while the C-Qual's ergonomic design delivers a new level of patient comfort. The low-attenuating properties of the C-Qual provide a homogeneous treatment zone - ideal for the imaging demands of IGRT. The C-Qual is light, making it the clinician's choice for efficient setup and easy handling in today's busy departments.



C-Qual Breastboard	MT400
C-Qual Breastboard (European Customers Only)	MTSIN109500

### Features of C-Qual Breastboard:

- "Sure-Set" elevation supports angles from 5 to 25° in nine steps
- Low-attenuating IGRT treatment zone
- Advanced arm supports, with no interference in the superclavicular region
- Docking for head & neck Posicast® thermoplastics (for COPD patients)
- Indexable for efficient, accurate setup
- Comes with a special wide headrest (*see page 46*)
- Compatible with breast support thermoplastic



Sure-Set elevation supports angles from 5 to 25° in nine steps.



C-Qual Storage

MTSIN013156

*See page 48 for more information on compatible breast thermoplastics.*

*The C-Qual is compatible with PR33, PR3, PR4 and PR44 head & neck Posicast thermoplastics, see pages 28-29 for more information.*

*See pages 35-36 for information on compatible headrests.*

## MT-350 and MT-250 Breastboards

The MT-350 carbon fiber breastboard features carbon fiber grid treatment panels for rigid support for the bi-lateral treatment windows. The breastboard's carbon fiber construction not only makes it lightweight but also "treatment field friendly" with low attenuation coefficients. The breastboard features a positive locking angulation system offering angles in 2.5° increments from 0 to 20° and an angle of 25°. The hip stop is indexable to ten locations and prevents patients from sliding down the board. The MT-350 Breastboard is CT compatible and accepts a wide variety of arm supports and headrests providing you versatile setup options.



MT-350 Carbon Fiber Breastboard (includes round head cup and hip stop, gel head cup and arm supports sold separately)

MT350N



MT-350 Wall Storage Device

MT350WSD



MT-250 Composite Breastboard 16" wide (includes round head cup, arm supports sold separately)

MT250WN

MT-250 Composite Breastboard 18" wide (includes round head cup, arm supports sold separately)

MT250WC

The **MT-250 Composite Breastboard** has maintained popularity due to its ease of use, setup flexibility and patient comfort. The breastboard features "radiation friendly," rigid, carbon fiber grid treatment panels for a full range of treatment angles with minimum attenuation. The vinyl-covered hip pad offers comfort and prevents patients from slipping down the angled board. Various arm support and headrest options are available.

The wedge elevation system comes with three wedges offering elevation angles at 5, 10, 15 and 20°. It comes standard with a round head cup.

*See page 48 for more information on compatible breast support thermoplastics.*

## Headrests (MT-350 & -250)

### Round Head Cup

The vinyl covered foam round head cup comes standard on the **MT-350 and MT-250 series breastboards**. It indexes to any of the numbered positions on the top of the breastboards.

**Compatible with the MT-350 and MT-250 breastboards.**



Round Head Cup

MT250SUB4



### Gel Head Cup

The doughnut-shaped gel head cup provides enhanced patient comfort. It features a baseplate that indexes to any of the numbered positions on the top of the MT-350 and MT-250 breastboards.

**Compatible with the MT-350 and MT-250 breastboards .**



Gel Head Cup

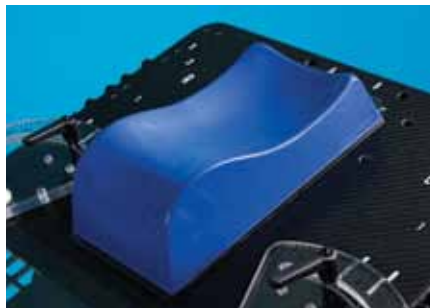
MT250SUB5



### Timo Headrests

Timo headrests are constructed of durable polyurethane foam with a washable coating. Five various heights and contours offer a comprehensive range of neck angulations. They are available with a special adapter for use with the MT-350 and MT-250 breastboards.

**Compatible with the MT-350 and MT-250 breastboards.**



Timos w/breastboard adapter plate - set of five

MTTIMOBB

Adapter Plate only

MT350400

## Arm Supports (MT-350 & -250)

### *Bi-Axial Arm Support System™*

The Bi-Axial Arm Support System includes both an arm and wrist support for comfortable and reproducible positioning for the upper and lower arm. The padded supports index to a variety of reproducible positions on the breastboard. One set can be used on either side of the breastboard.

*Compatible with the MT-350 and MT-250 breastboards.*



Right Arm Support	MTTASR
Left Arm Support	MTTASL
Wrist Support	MTTWSS

### *Delrin Hand Grips*

Delrin Hand Grips provide an affordable option for quick patient setups for overhead arm positioning.

*Compatible with the MT-350 and MT-250 breastboards.*



Delrin Hand Grips | MT2504

### *Wing Boards™*

The Extended, Standard and Tapered Wing Boards can be mounted to the MT-350 and MT-250 Breastboards for additional arm support.

*See page 50 for more information on Wing Boards.*



## Posiboard™-2 Breastboard

The Posiboard-2 Breastboard is a complete solution for the positioning of breast patients. Made of a low density foam core covered in an ultra-thin layer of carbon fiber, it allows the beam to pass through the Posiboard-2 from any angle with minimal attenuation. The Posiboard-2 can be positioned at eight angles, and accommodates several comfortable and adjustable arm support options. For additional support a breast cast can be mounted using a quick release system. When the Posiboard-2 is not in use it can hang on the wall with the supplied wall-mount plate.



46



Posiboard-2 Breastboard (includes a wide headrest, cranial arm support, 2 - rigid adjustable arm supports (MTSIN106015) and couchtop fixation)

MTSIN109030



Posiboard-2 Breastboard (includes a wide headrest, cranial arm support, 2 - large rigid adjustable arm supports (MTSIN106047) and couchtop fixation)

MTSIN109040

*Breast Support Thermoplastic is available for the Posiboard-2, see page 48 for more information.*

### Wide Headrest

Both the C-Qual™ and Posiboard-2 come with a special, wide headrest.



Wide Headrest

MTSIN301008

### Hand Grip

A Hand Grip provides added flexibility in arm positioning, this easy-to-use, stable hand grip can be used at several positions along the superior end of the breastboard. It is locked into place with two quick fasteners and can be used whenever the regular arm supports are not adequate.

*Compatible with the Posiboard-2 and the Posirest-2.*



Hand Grip (2)

MTSIN106028

## Arm Supports (Posiboard™-2 & Posirest™-2)

### Rigid Adjustable Arm Support

The Rigid Adjustable Arm Support has a fixed height that is perfect for use with the cranial arm support. Because it is made of carbon fiber and has no hinges, it is extremely rigid and supports the arms of heavy patients. The comfortable padded arm cup is rotatable, it supports the upper arm regardless of which of the five different angle settings is used.

For larger patients, this arm support is available with a large arm cup.

*Compatible with the Posiboard-2 and the Posirest-2.*



### Height Adjustable Arm Support

The Height Adjustable Arm Support features a rotatable arm cup and three indexable height options for added patient comfort.

*Compatible with the Posiboard-2 and the Posirest-2.*



### Cranial Arm Support

A comfortable position of the forearms is achieved with a cranial arm support. It can be combined with the Rigid Adjustable Arm Support to provide a complete arm support system.

*Compatible with the Posiboard-2 and the Posirest-2.*



### 90° Arm Support

With this arm support, the patient's arm is positioned at a 90° angle. The support is adjustable and available for the left and right side of the Posiboard-2



## Breast Support Thermoplastic



Thermoplastic breast positioning is primarily intended to hold the breast up and away from the chest wall, reducing both skin folds and unwanted radiation dose into the patient's lung and heart. Breast Support Thermoplastic assists in repositioning the breast for treatment.

These thermoplastics for breast positioning require two reusable handles that mount to the **MT-350, MT-250 and C-Qual Breastboards**. They are available in Standard Perforated and IMRT Reinforced perforation styles.

Perforation Type	Thickness	Part Number
Standard Perforated	2.4mm	MTRFX9182.4
Standard Perforated	3.2mm	MTRFX918
IMRT Reinforced, Pink	3.2mm	MTRFI918HP
IMRT Reinforced	2.4mm	MTRFI9182.4
IMRT Reinforced	3.2mm	MTRFI918
Reusable Handles (2)		MTRFH2



### Posicast® Thermoplastic Precut without L-profiles

Posicast Type	Perforation Type	Part Number
Standard	Multiperfo	MTSIN900111
Standard	Microperfo	MTSIN910111
Plus	Microperfo	MTSIN920111
Lite	Microperfo	MTSIN770111
Breast L-profiles (2)		MTSIN106019

Posicast-Plus Microperfo thermoplastics are available globally. Check with your account representative for availability of other Posicast thermoplastics.



See page 28 for more information on Posicast thermoplastics.

These thermoplastics require special L-profiles and breast fixation grids. Contact your account representative for more information.

Compatible with the Posiboard-2 Breastboard. Sold in packages of 10.

# Horizon™ Prone Breastboard

The Horizon Prone Breastboard is designed to assist in treating breast patients in the prone position. The Horizon is lightweight and its ergonomic design allows for optimal patient access.

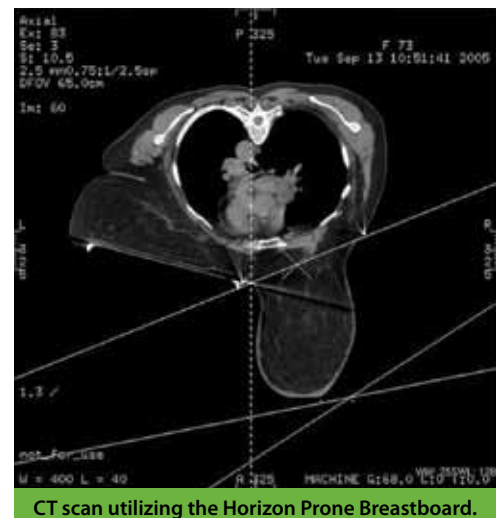
Three sizes of wedges are included with the Horizon, varying in size from 15 to 25cm, to allow for a more customized fit for your patient. These wedges are positioned under the contralateral breast and allow it to rotate up and out of the beam's path. The slight incline of the wedges allows the ipsilateral breast to fall fully into the treatment field. A Vac-Lok™ cushion (see page 53 part # MTVLWGB03C) can be utilized to help support the arms. A lateral head cushion can also be utilized with the Horizon Prone Breastboard (see page 34).



Horizon Prone Breastboard

MTAPBB01

- Lightweight - weighs under 20lbs (9kg)
- Enhanced Comfort- weight-dispersing foam alleviates pressure points
- CT Compatible - The Horizon is designed for CT clearance



CT scan utilizing the Horizon Prone Breastboard.

## Wing Boards™

### Standard Wing Board

The Standard Wing Board is constructed of durable, lightweight ABS and features Delrin post hand grips. It is CT compatible and indexable for enhanced reproducibility from imaging through treatment. It easily attaches to the **MT-350 and MT-250 breastboards**.



Standard Wing Board - 22.5" Wide

MTWB09

### Extended Wing Board

The Extended Wing Board is constructed of durable, lightweight ABS and can be used with a T- or U-Grip handle. Its extended length allows for additional arm positioning flexibility. It is CT compatible and indexable for enhanced reproducibility from imaging through treatment. It easily attaches to the **MT-350 and MT-250 breastboards**.



Extended Wing Board w/T-Grip - 22.5" Wide

MTWB08T

Extended Wing Board w/U-Grip - 22.5" Wide

MTWB08U

### Tapered Wing Board

The Tapered Wing Board has angled wings providing patient comfort and support. Its narrow profile is ideal for CT and PET bores. It easily attaches to the **MT-350 and MT-250 breastboards**. It is available with a T- or U-Grip Handle.



Tapered Wing Board w/T-Grip - 22" Wide

MTWB10T

Tapered Wing Board w/U-Grip - 22" Wide

MTWB10U

### Curved Wing Board

The Curved Wing Board is designed for radiology departments. It features a rounded bottom to fit into the cradle of a CT Machine.



Curved Wing Board

MTCWB01

This product has not been CE marked.

All Wing Boards are compatible with Timo, Silverman and AccuForm™ headrests, see pages 35-39.

A special Wing Board Vac-Lok™ cushion is also available, see page 53.

## Posirest™-2

The Posirest-2 Arm Support is designed to create proper and comfortable upper extremity positioning. The Posirest-2 consists of a carbon fiber baseplate with a comfortable headrest. The arms may be positioned above the head with a high arm holder – or cranially with the cranial arm holder combined with two upper arm supports. All arm holders can be adjusted in several positions and are fitted with comfortable padding.

*See page 47 for more arm support information.*

*See page 30 for storage options.*



Posirest-2 (includes: Posirest Carbon Fiber Baseplate, Wide Headrest, High Arm Support, Cranial Arm Support and 2 Rigid Adjustable Arm Supports)	MTSIN106521
Includes the same items as MTSIN106521 but comes with 2 Large Rigid Adjustable Arm Supports	MTSIN106522

## PET Arm Support

The PET Arm Support comfortably positions the arms up and out of the region of interest. The unique positioner provides a quick setup option for busy radiotherapy departments and is optimized for use in small PET/CT bores.

The PET Arm Support was co-developed with the Department of Radiotherapy of the University Medical Center in Utrecht, The Netherlands.



PET Arm Support | MTSIN102204

## Thorawedge™

The Thorawedge is a unique positioning device allowing the patient to incline at multiple fixed angles. The system consists of two wedges (5 and 10°) and a comfortable arm holder. The wedges can be used separately or combined to reach a 15° angle. Additional 5° wedges can be added to form 20 and 25° angles. When combined, parts are integrated with positioning notches. The arms are positioned above the head for an easy fit through the CT aperture. The comfortable headrest and lumbar support can be indexed, assuring a reproducible patient position throughout the course of treatment. Large side cut-outs allow for a full range of treatment angles. The Thorawedge also creates a comfortable position during diagnostic procedures.

The Thorawedge was co-developed with the Department of Radiotherapy of the University Medical Center in Utrecht, The Netherlands.



Thorawedge	MTSIN301080
Additional 5° Wedge	MTSIN301081
Additional 10° Wedge	MTSIN301082

## Treatment Brassiere

The Treatment Brassiere positions the ipsilateral breast into a reproducible shape while moving the contralateral breast away from the beam. A complete library of 40 brassiere cups is available, with or without a portable storage caddy. Also available individually or in sets of five.

### Sizing Guidelines

Clothing Cup Size	Observed Volume (mL)
A	94-225 mL
B	146-458 mL
C	267-835 mL
D	499-1120 mL
DD	988-1427+ mL
DDD	2756-3176 mL



40-cup Brassiere Library	MTBR100
40-cup Brassiere Library with Caddy	MTBR100TBC

This product has not been CE marked.

Treatment Brassieres are available for both the left and right breast in the following sizes, 200, 250, 300, 400, 500, 600, 750, 1000, 1250, 1500, 2000, 2500 and 3000 mL. Intermediate volumes can be accommodated because the anterior portions of cups are cut off and tissues near the apex protrude. Left and right cups are not interchangeable.

## Breast Caliper

This compact, lightweight caliper is easy to handle. The digital readout with "hold" feature faces the therapist, making it simple to read the measurements. Narrow jaws make it easy to place the caliper at medial and lateral skin markings when measuring for breast setups.



Breast Caliper	MTBCD
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This product has not been CE marked.

# Breast & Thorax Vac-Lok™ Cushions

Vac-Lok cushions form a custom mold of a patient’s anatomical contours and can easily be reinflated and remolded. Cushions are available in two durable finishes: clear urethane and blue nylon. Blue nylon cushions are reinforced and can be ordered with indexing bars attached.

*See pages 62-65 for more information on Vac-Lok cushions.*



Arms up, 75cm long - Urethane	MTVLARM01
Arms up, 75cm long - Nylon	MTVLARM01C
Arms up, 75cm long - Nylon w/indexing	MTVLARM01FC



Arms up, 105cm long - Urethane	MTVLARM02
Arms up, 105cm long - Nylon	MTVLARM02C
Arms up, 105cm long - Nylon w/indexing	MTVLARM02FC



Breastboard Cushion - Nylon	MTVLBRB01C
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One Arm Up - Urethane	MTVL04
One Arm Up - Nylon	MTVL04C



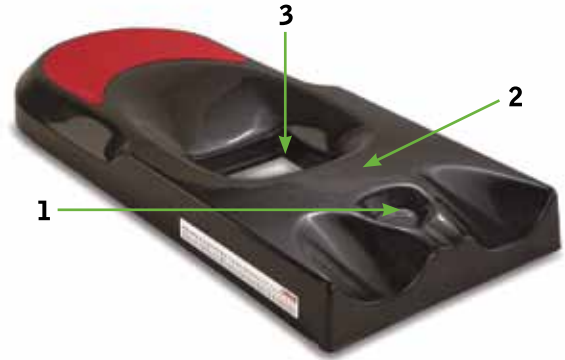
Wing Board Cushion - Urethane	MTVLWGB03
Wing Board Cushion - Nylon	MTVLWGB03C

# Carbon Fiber Bellyboard

The Carbon Fiber Bellyboard has been developed in order to reduce the irradiated small bowel volume of patients undergoing treatment in the pelvic region. For treatment fields including the pubic bone towards the third lumbar vertebra, reduction of the irradiated small bowel volume up to 64% (four field box technique) can be obtained. The Bellyboard is radiotranslucent, lightweight, rigid and indexable.

For patient comfort the lower part of the Bellyboard has been adapted to support the upper legs. A soft polyethylene padding on the cranial side ensures a comfortable position for the head. The Bellyboard has two apertures:

- The caudal aperture (1) is for the positioning of the pubic bone
- The central part (2) of the device is for the compression of the small bowel in order to push the small bowel cranially towards the major aperture (3).



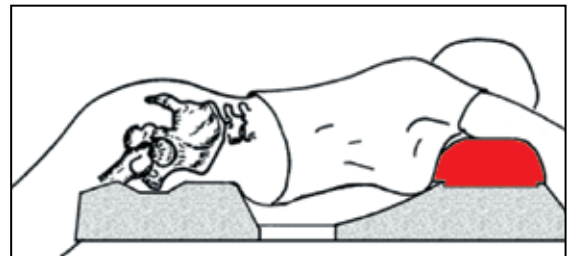
**Positioning guidelines for patient set-up on the Bellyboard:**

As a patient positions themselves on the Bellyboard they should start cranially and slide in the caudal direction. The pubic bone must be positioned in the caudal aperture for an optimal reduction of the small bowel volume. **Fiducial markers are integrated in the bottom part of the device for patient setup verification.** Clear scales on both sides of the Bellyboard allow easy verification of the longitudinal position of the patient.

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## Prone Thorax Support

The Prone Thorax Support is designed to relieve chest compression during treatments in the prone position. It can be used as a stand alone patient support or as an option on the Bellyboard to allow large patients to be treated in the prone position in order to decrease the volume of irradiated small bowel.



Carbon Fiber Bellyboard Storage (not compatible with the Contoura Bellyboard) MTSIN013140

Carbon Fiber Bellyboard	MTSIN125012
Prone Thorax Support	MTSIN301075

# Contoura™ Bellyboard

The Contoura Bellyboard is made entirely of carbon fiber to provide maximum treatment versatility. Customized bowel displacement can be achieved with the use of three interchangeable padded inserts. This bellyboard is shorter than other models to allow for additional setup flexibility for various patient lengths with the Prone-Lok™ *indexable* cushion or the Prone Pillo™.

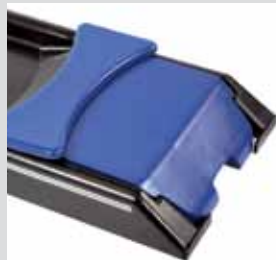


Prone-Lok Cushion is not included with the Contoura Bellyboard



Contoura Bellyboard

MTBBCF



No Portal



Small Portal



Large Portal

# Positioning Cushions

## Prone-Lok Positioning Cushion

The Prone-Lok Positioning Cushion enhances patient comfort through its specially designed foam construction. Its contoured corners eliminate shoulder impingement. The center portal opens the patient's field of view improving patient comfort. The Prone-Lok cushion is **indexable** and can be used with the Contoura Bellyboard. Can be easily cleaned and reused.

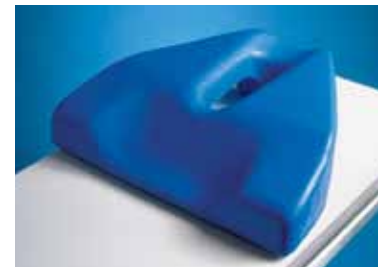


Prone-Lok Positioning Cushion

MTPLC01

## Pron-Pillo™ Positioning Cushion

The Pron-Pillo provides comfort and stability for patients in the prone position. It can be easily cleaned and reused.



Pron-Pillo

MTCB36

## Dual Leg Positioner

The Dual Leg Positioner provides a quick capture of the lower legs for supine hip and pelvic treatments. The system offers comfortable support and an increased level of positioning, reducing rotation of the pelvis. An optional Velcro® strap secures the calves and ankles. It is **indexable** for enhanced reproducibility. Can be easily cleaned and reused.



Dual Leg Positioner

MTDLI

Dual Leg Positioner, Low

MTDLIZ

# Kneefix™ 2 & Feetfix™ 2



## Kneefix 2

The Kneefix 2 cushion contributes to better stability and reproducibility in the supine position, regardless of the target area. It promotes patient comfort and is therefore ideal for use during lengthy procedures on rigid surfaces. The Kneefix 2 is 16cm tall and is made of lightweight, closed cell foam that is easy to clean and is both two- and three-pin indexable.



Kneefix 2	MTSIN301047
Available Soon!	



## Low Kneefix 2 and Kneefix Elevation Blocks

For added flexibility the Low Kneefix 2 and Kneefix 2 Elevation Blocks are available. The Low Kneefix 2 is 4cm lower than the standard Kneefix. The Low Kneefix 2 is both two and three-pin indexable. The Kneefix 2 Elevation Blocks can elevate either the Kneefix 2 or Low Kneefix 2 by 5cm. The Kneefix fits in the topside of the elevation block and will not slide off. Elevation Blocks may be stacked to raise the legs even higher. The Kneefix 2 Elevation Blocks are both two- and three-pin indexable.



Low Kneefix 2	MTSIN301048
Available Soon!	



Elevation Block	MTSIN301051
Elevation Block - Set of 3	MTSIN301054
Available Soon!	

## Feetfix 2

The Feetfix 2 is a universal patient support cushion for radiotherapy and diagnostic procedures and has been designed to provide comfortable positioning with enhanced immobilization. The Feetfix 2 is 18cm tall and is made of lightweight, closed cell foam that is easy to clean. It is both two- and three-pin indexable.



Feetfix 2	MTSIN301066
Available Soon!	

# Combifix™

## Combifix

The Combifix is a baseplate that indexes to the couchtop and combines the Feetfix and Kneefix. It is recommended that both cushions are used in combination, as each cushion enhances the performance of the other, especially when treating the pelvic region.



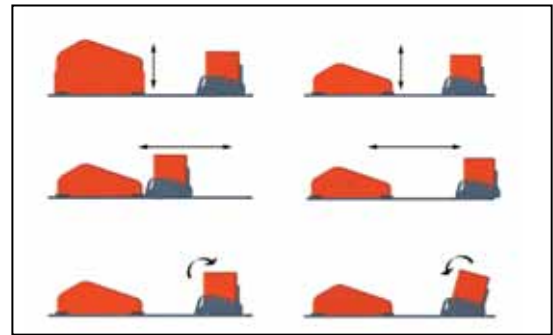
Combifix Storage

MTSIN013115



Combifix (Includes 1 Combifix Baseplate, 1 Kneefix, 2 Kneefix Elevation blocks, 1 Feetfix & 1 Feetfix Couch Support)

MTSIN151002



## Feetfix™ Couch Support

The Feetfix Couch Support positions the Feetfix at indexed positions and allows the Feetfix to be tilted at four different angles. The Feetfix Couch Support can be purchased separately from the Combifix.



Feetfix Couch Support Storage

MTSIN013103



Feetfix Couch Support

MTSIN302067

## Shoulder Retractors

This shoulder retractor system consists of straps in two different lengths with hand grips that can be attached in five positions on the Feetfix Couch Support. This allows the shoulder retractor to be adjusted at ten positions. With the shoulder retractor the shoulders can be pulled down during radiotherapy simulation and treatment sessions where opposed lateral fields are used in the neck area. The shoulder retractor can be used with the Feetfix Couch Support or the whole Combifix system.



Shoulder Retractors

MTSIN302070

# HipFix®

The HipFix hip and pelvis immobilization system utilizes a single sheet of thermoplastic over the entire abdomen and pelvis region. The versatile system accommodates both prone and supine patient setups. The HipFix system provides immobilization to enhance fixed fiducial targeting.

The HipFix baseplate features a cutout treatment window. The baseplate can be indexed to the couchtop. A Vac-Lok or RediFoam cushion can be integrated to the HipFix for added comfort, support and repositioning accuracy.

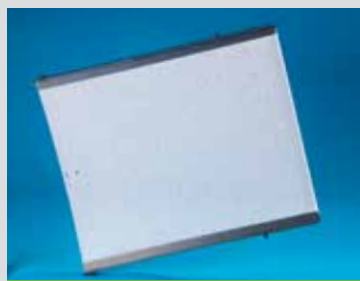
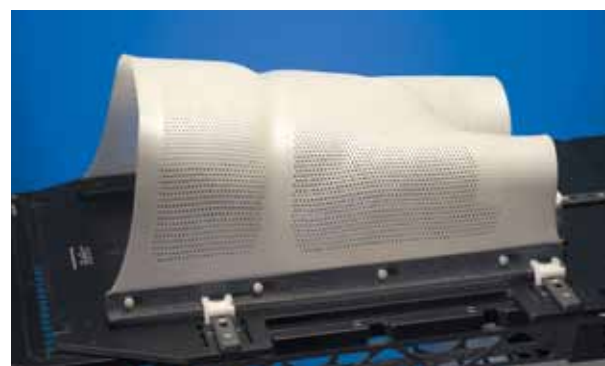


HipFix Baseplate | MTPLVC04

## HipFix Thermoplastics

HipFix Thermoplastics are available with reloadable or disposable handles with either standard perforated or IMRT Reinforced™ perforation styles. The handles and groin piece secure to the HipFix board providing an indexable setup.

Reloadable Handles & Groin Piece	MTPLHA01
Groin Piece	MTPLVCSUB8



Standard Perforated Thermoplastic



IMRT Reinforced Thermoplastic

Perforation	Handle Type	Dimensions	Thickness	Part Number
Solid	Reloadable	18 x 24"	3.2mm	MTHFX1824S
Solid	Reloadable	18 x 24"	2.4mm	MTHFX18242.4S
Solid	Reloadable	18 x 22"	3.2mm	MTHFX1822S
Solid	Reloadable	18 x 22"	2.4mm	MTHFX18222.4S
Solid	Disposable (groin piece sold separately)	18 x 22"	3.2mm	MTPLHA0201
Perforated	Reloadable	18 x 22"	3.2mm	MTHFX1822
Perforated	Reloadable	18 x 22"	2.4mm	MTHFX18222.4
Perforated	Disposable (no groin piece)	18 x 22"	3.2mm	MTPLHA0202
IMRT Reinforced	Reloadable	18 x 22"	3.2mm	MTHFI1822
IMRT Reinforced	Reloadable	18 x 22"	2.4mm	MTHFI18222.4
IMRT Reinforced	Disposable (no groin piece)	18 x 22"	3.2mm	MTPLHAI0203

# Hip & Pelvic Vac-Lok™ Cushions

Vac-Lok cushions form a custom mold of a patient’s anatomical contours and can easily be reinflated and remolded. Vac-Lok cushions are a popular choice for hip and pelvis positioning due to patient comfort and setup reproducibility. Cushions are available in two durable finishes: clear urethane and blue nylon. Blue nylon cushions are reinforced and can be ordered with indexing bars attached.

See pages 62-65 for more information on Vac-Lok cushions.



75 x 100cm - Urethane	MTVLPLV01
75 x 100cm - Nylon	MTVLPLV01C
75 x 100cm - Nylon w/indexing	MTVLPLV01FC



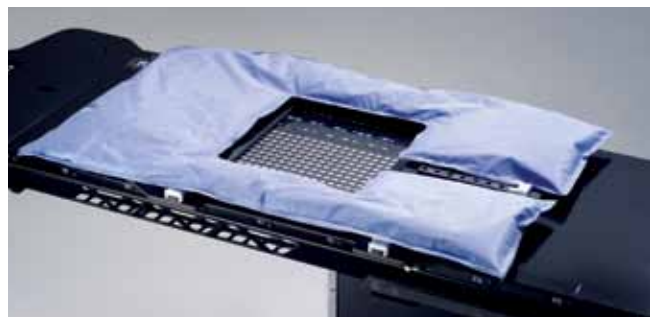
75 x 120cm - Urethane	MTVLPLV02
75 x 120cm - Nylon	MTVLPLV02C
75 x 120cm - Nylon w/indexing	MTVLPLV02FC



80 x 100cm Hourglass - Urethane	MTVLPLV03
80 x 100cm Hourglass - Nylon	MTVLPLV03C



60 x 80cm w/window - Urethane	MTVL06
60 x 80cm w/window - Nylon	MTVL06C



Split Leg Cushion - Nylon w/indexing (For use with the HipFix System)	MTVL71FC
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## Multifix™

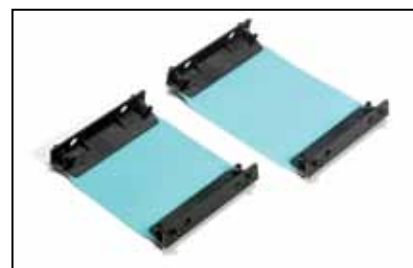
The Multifix is a flexible system allowing arms and legs to be fixed in straight or bent positions, using small Posicast® precuts. These precuts are easily shaped to anatomical contours and are then fixed onto the baseplate on clearly indicated positions. The baseplate is indexable to ensure a reproducible setup. It features four sets of indexing holes to offer an isocentric position of the treated extremity wherever it is placed on the Multifix.

### Part Numbers for Posicast Precuts with Disposable L-profiles

Precut Type	Posicast Multiperfo	Posicast Microperfo	Posicast-Plus Microperfo	Posicast-Lite Microperfo
PR8	MTSIN940080	MTSIN950080	MTSIN930080	MTSIN772080
PR9	MTSIN940090	MTSIN950090	MTSIN930090	MTSIN772090

Posicast-Plus Microperfo Thermoplastics are available globally. Check with your account representative for availability of other Posicast Thermoplastics.

See page 28 for more information on Posicast Thermoplastics.



PR8 - small & PR9 - large precut Posicast Thermoplastics



Multifix - Carbon Fiber MTSIN107063

## Treatment Chair

The Treatment Chair provides upright positioning for specialty treatment cases or for patients who have difficulty lying horizontally for treatments. The reclining back of the chair adjusts to six positive-locking positions between 65 and 90°. The back of the chair consists of a carbon fiber grid treatment window for breast, lung and thorax treatments. The chair is indexable for enhanced reproducibility.

The versatile treatment chair accepts several head positioning options including, but not limited to, a round head cup or a Uni-frame® baseplate to accommodate a Uni-frame thermoplastic mask. The chair comes with the choice of either arms-up or arms-down positioners.



Treatment Chair	MT2000
Arms up Positioner	MT2000SUB5
Arms Down Positioner	MT2000SUB8
Head Cup w/Velcro Straps	MT2000HCV

# Vac-Lok™ Cushions

Easy-to-use, reusable Vac-Lok cushions are designed to meet the challenges of today's radiotherapy and diagnostic imaging departments. Filled with tiny polystyrene beads, Vac-Lok cushions create a rigid, comfortable cradle around the patient when a vacuum is drawn through the quick-release valve. The quick-release valve is self-sealing.

Vac-Lok cushions are available in two durable finishes, clear urethane and blue nylon - which is reinforced for resistance against punctures. Nylon cushions are also available with indexing for enhanced patient positioning. Both styles of Vac-Lok cushions are washable and reusable for ultimate cost-effectiveness. They are radiotranslucent, almost air equivalent, and available with treatment windows to avoid any possible buildup.



## Standard Rectangular Cushions

Dimensions	Fill	Finish	Part Number
25 x 50cm	2.25 Liters	Urethane	MTVLE2.25
25 x 50cm	2.25 Liters	Nylon	MTVLE2.25C
50 x 70cm	15 Liters	Urethane	MTVLF15
50 x 70cm	15 Liters	Nylon	MTVLF15C
50 x 70cm	15 Liters	Nylon w/Indexing	MTVLF15FC
70 x 70cm	20 Liters	Urethane	MTVLJ20
70 x 70cm	20 Liters	Nylon	MTVLJ20C
70 x 70cm	20 Liters	Nylon w/Indexing	MTVLJ20FC
70 x 100cm	35 Liters	Urethane	MTVLG35
70 x 100cm	35 Liters	Nylon	MTVLG35C
70 x 100cm	35 Liters	Nylon w/Indexing	MTVLG35FC
70 x 100cm	40 Liters	Urethane	MTVLG40
70 x 100cm	40 Liters	Nylon	MTVLG40C
70 x 100cm	40 Liters	Nylon w/Indexing	MTVLG40FC
75 x 100cm	28 Liters	Urethane	MTVLPLV01
75 x 100cm	28 Liters	Nylon	MTVLPLV01C
75 x 100cm	28 Liters	Nylon w/Indexing	MTVLPLV01FC
75 x 120cm	34 Liters	Urethane	MTVLPLV02
75 x 120cm	34 Liters	Nylon	MTVLPLV02C
75 x 120cm	34 Liters	Nylon w/Indexing	MTVLPLV02FC
75 x 150cm	50 Liters	Urethane	MTVLFBB01
75 x 150cm	50 Liters	Nylon	MTVLFBB01C
75 x 150cm	50 Liters	Nylon w/Indexing	MTVLFBB01FC
75 x 180cm	62 Liters	Urethane	MTVLFBB02
75 x 180cm	62 Liters	Nylon w/Indexing	MTVLFBB02FC
100 x 100cm	40 Liters	Urethane	MTVLB40
100 x 100cm	40 Liters	Nylon	MTVLB40C
100 x 100cm	40 Liters	Nylon w/Indexing	MTVLB40FC



Indexing battens provide an easy method for repositioning Vac-Lok cushions.



25 x 50cm cushions are useful for positioning extremities



75 x 180cm and 75 x 150cm cushions are useful for full body positioning

Description	Dimensions	Fill	Finish	Part Number
Prone Cushion	15 x 26cm	0.355 Liters	Urethane	MTVL27A
Prone Cushion	15 x 26cm	0.5 Liters	Urethane	MTVL27B
"T" Cushion	50 x 70cm	6 Liters	Urethane	MTVL37
Type-S Cushion	61 x 65cm	8 Liters	Nylon w/indexing	MTVLTY01CX
Arms Up Cushion	75 x 75cm	20 Liters	Urethane	MTVLARM01
Arms Up Cushion	75 x 75cm	20 Liters	Nylon	MTVLARM01C
Arms Up Cushion	75 x 75cm	20 Liters	Nylon w/Indexing	MTVLARM01FC
Arms Up Cushion	105 x 75cm	28 Liters	Urethane	MTVLARM02
Arms Up Cushion	105 x 75cm	28 Liters	Nylon	MTVLARM02C
Arms Up Cushion	105 x 75cm	28 Liters	Nylon w/Indexing	MTVLARM02FC
Breastboard Cushion	90 x 55cm	15 Liters	Nylon	MTVLBRB01C
One Arm Up	100 x 80cm	34 Liters	Urethane	MTVL04
One Arm Up	100 x 80cm	34 Liters	Nylon	MTVL04C
Wing Board Cushion	88 x 55cm	15 Liters	Urethane	MTVLWGB03
Wing Board Cushion	88 x 55cm	15 Liters	Nylon	MTVLWGB03C
Hourglass Cushion	80 x 100cm	28 Liters	Urethane	MTVLPLV03
Hourglass Cushion	80 x 100cm	28 Liters	Nylon	MTVLPLV03C
Window Cushion	60 x 80cm	20 Liters	Urethane	MTVL06
Window Cushion	60 x 80cm	20 Liters	Nylon	MTVL06C
Split Leg Cushion	60 x 100cm	15 Liters	Nylon w/indexing	MTVL71FC



## Diagnostic Vac-Lok™ Cushion



The Diagnostic Vac-Lok Cushion provides a quick and easy method for creating a custom patient positioning cradle. This comfortable cushion makes it easy for a patient to relax during lengthy imaging procedures. An optional head cushion provides additional stabilization of the head and neck.

Reduced patient movement results in clearer images, maximizing the benefits of today's advanced imaging technologies.



Diagnostic Vac-Lok Cushion, Body Cushion	MTVLBIS001C
Diagnostic Vac-Lok Cushion, Head Cushion	MTVLBIS002C

## Vac-Lok™ Accessories

### Vac-Lok Cleaner

This disinfectant is available for use on Vac-Lok cushions.



Vac-Lok Cleaner | MTCBPFC

This product has not been CE marked.

### I.D. Tags

Color-coded tags provide quick identification of patient cushions. Tags are available in assorted colors and include tie strings.



Tags - Pack of 25, Assorted Colors

MTVLTAG

# Vac-Lok™ Accessories

## Helping Hands™ Cushion Manager

The Helping Hands Cushion Manager is designed to help handle large-size Vac-Lok cushions that tend to hang off the couch during the forming process. Helping Hands are available individually in lengths of 50, 100 and 150cm, or in a set of all three.



Helping Hands - 50cm pair	MTVLHH50
Helping Hands - 100cm pair	MTVLHH100
Helping Hands - 150cm pair	MTVLHH150
Helping Hands - Set of all 3 pairs	MTVLHH
This product has not been CE marked.	

## Storage Racks

These space giving racks hold molded & inflated cushions. Plastic "S" hooks are available for hanging cushions.



Storage Rack, Stacked Rail	MTVL3SR
Storage Rack, Double Wide	MTVL401
Storage Rack Shelf	MTVL403
Casters, 4 per set	MTVL402
"S" Hooks, 10 per set	MTVLHOOK

## Vacuum Compressors

The Dual Function Vacuum Compressor provides both a vacuum and inflate cycle with a convenient hand control or foot control. It is available in either 110 or 220 volt versions. A new lighter weight Dual Function Compressor will be available soon, this version has been CE marked.

The Single Function Vacuum Compressor is a lower cost alternative. It provides a vacuum cycle only. To re-inflate a Vac-Lok cushion, simply detach the compressor and depress the end of the cushion valve. With the MTVL1BEX the hoses can be switched to provide an inflate cycle.



Single Function, 110V	MTVL1A
This product has not been CE marked.	



Single Function, 220V	MTVL1BEX
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Dual, Hand Control, 110V	MTVL1
Dual, Foot Control, 110V	MTVL1FP
Dual, Hand Control, 220V	MTVL1EX
This product has not been CE marked.	



Dual Function, 110V	MTVL1N
Dual Function, 220V	MTVL1NEX
Available Soon!	

## RediFoam™ Two-Part Positioning Foam

RediFoam two-part positioning foam is both CFC- and TDI-free. You can make setup marks directly onto RediFoam for verifiable repositioning throughout treatment. RediFoam is available in four sizes.

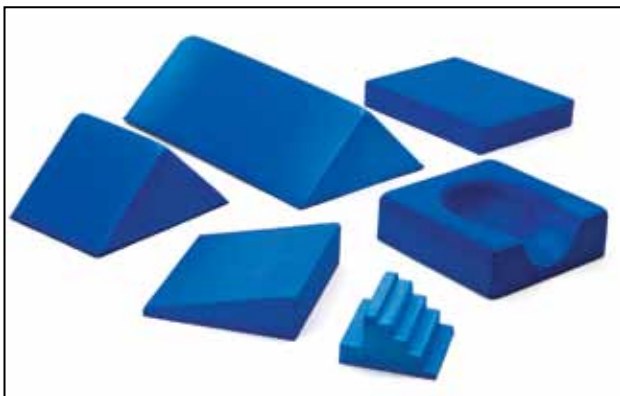


RediFoam - X-Small (for head & neck positioning)	MTFA20B
RediFoam - Small (for pediatrics or extremities)	MTFA39B
RediFoam - Large (ideal for adults)	MTFA40B
RediFoam - X-Large (30% more than large size)	MTFA41B

This product is available in the US only and has not been CE marked.

## Multi Purpose Support Cushions

Multi Purpose Support Cushions are exclusive closed cell PE foam which will not stain or absorb liquids. They are more firm than regular, coated support cushions. Six different shapes are sold separately or as a complete set.



Shape	Dimensions	Part Number
Rectangle	30 x 24 x 5cm	MTSIN403024
15° Wedge	24 x 22 x 7cm	MTSIN402422
45° Wedge	28 x 48 x 14cm	MTSIN402848
45° Wedge	28 x 20 x 14cm	MTSIN402820
Head Support	25 x 25 x 8cm	MTSIN402525
Hand-Finger Positioner	13 x 13 x 8cm	MTSIN401313
Set of all Six		MTSIN400006

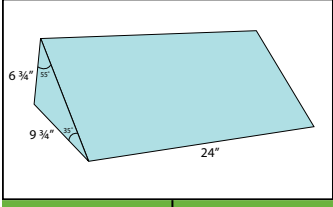
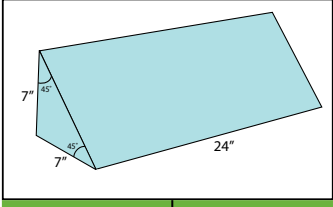
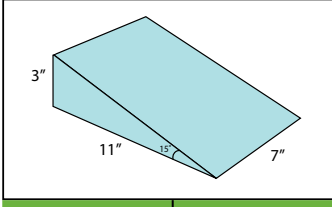
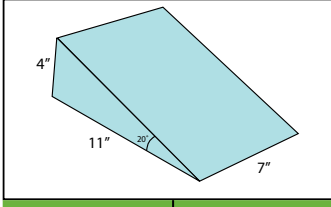
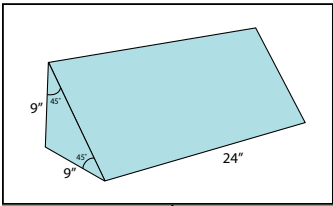
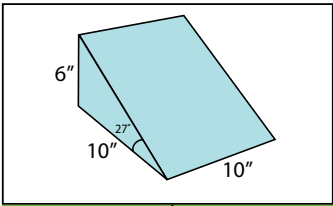
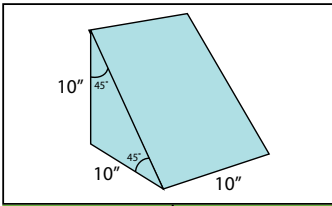
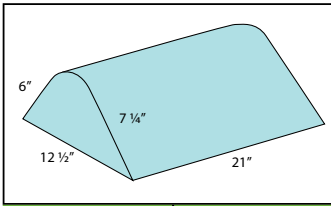
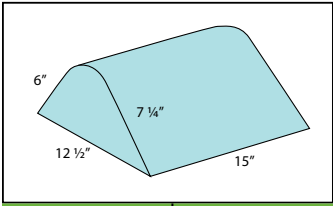
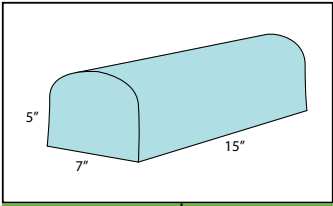
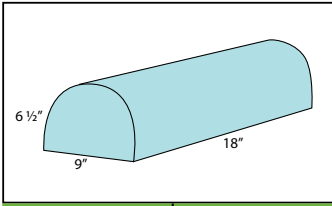
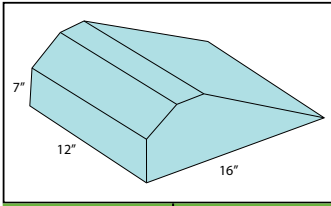
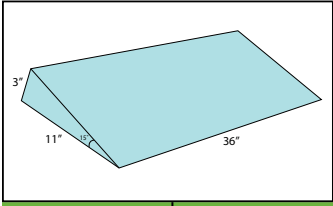
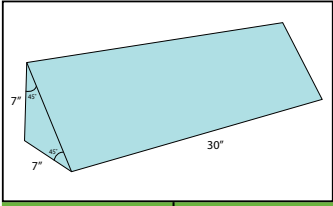
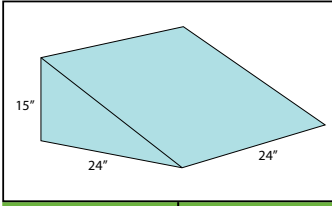
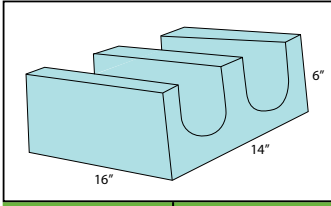
# Foam Cushions & Wedges



CIVCO offers a full line of foam positioning aids for comfortable patient support. Covered knee bolsters and wedges can be easily cleaned and re-used.

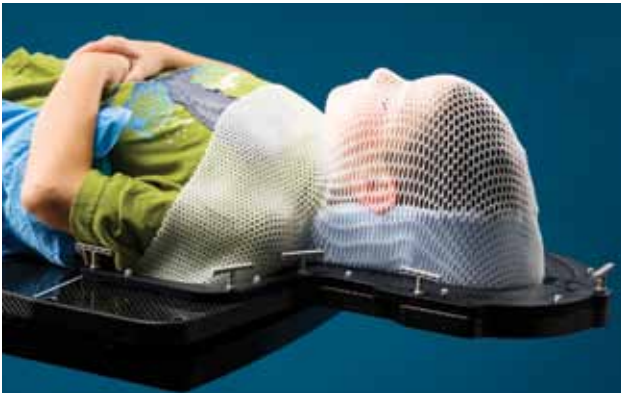
**These products have not been CE marked.**

Shape	Dimensions	Part Number
Rectangle	11 x 7 x 2"	MTVIPFFF105C
Circle	6 x 1½"	MTVIPFFF106C
Rectangle - Chest Positioner	14 x 24 x 2"	MTVIPFFF402C
Rectangle - Chest Positioner	14 x 25 x 4"	MTVIPFFF403C
Rectangle	10 x 7 x 1"	MTVIPFFF801C
Rectangle	10 x 7 x 2"	MTVIPFFF802C
Rectangle	10 x 7 x 3"	MTVIPFFF803C
Rectangle	10 x 7 x 4"	MTVIPFFF804C
Rectangle	20 x 7 x 4"	MTVIPFFF805C
Standard Set	Includes: 101C, 102C, 103C, 104C, 105C, 106C	MTVIPFFF702C

 35°/55° Wedge   MTVIPFFF101C	 45° Wedge   MTVIPFFF102C	 15° Wedge   MTVIPFFF103C	 20° Wedge   MTVIPFFF104C
 45° Wedge   MTVIPFFF107C	 27° Wedge   MTVIPFFF203C	 45° Wedge   MTVIPFFF205C	 Angled Bolster   MTVIPFFF301C
 Angled Bolster   MTVIPFFF302C	 Knee/Back Bolster   MTVIPFFF303C	 Myelogram   MTVIPFFF309C	 Torso Block   MTVIPFFF401C
 15° Wedge   MTVIPFFF405C	 45° Wedge   MTVIPFFF407C	 Chest/Leg Wedge   MTVIPFFF502C	 Leg Immobilizer   MTVIPFFF704C

# Pediatric Positioning

CIVCO recognizes the unique challenges faced by clinicians for accurate, comfortable positioning and fixation for children. For these patients CIVCO offers a narrower thermoplastic frame for the Type-S™ and Posifix® systems. The Posifix Pediatric Baseplate accepts PR33 and PR55 precut thermoplastics, see pages 28-29 for more information.



Pediatric Type-S Frame	20CFHNPSUB1P
Pediatric Thermoplastic 3.2mm thick	MTAPSP3.2
Pediatric Thermoplastic 2.4mm thick	MTAPSP2.4



Posifix Pediatric Baseplate - Acrylic	MTSIN101023
Posifix Pediatric Baseplate - Carbon Fiber	MTSIN101024

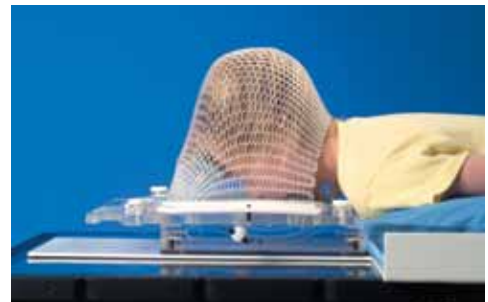
*See page 36 for pediatric headrests that are compatible with the Posifix Baseplate.*



*Vac-Lok™ Cushions are also an ideal positioning solution for children of all ages, see pages 62-65 for more information on Vac-Lok Cushions.*

## ***PediBoard™ - Cranial-Spinal Axis System***

CIVCO's integrated positioning system for cranial-spinal treatments utilizes a Vac-Lok Cushion (pgs. 62-65) with a special PediBoard™, a Uni-frame® baseplate (pg. 31), Prone Head Holder (pg. 34) and a thermoplastic mask (pgs. 32-33). The all plastic PediBoard accommodates a 3" vinyl cover foam block for torso elevation and spinal alignment. The raised sides capture the Vac-Lok Cushion for easy molding around the body.



PediBoard	MTPB01
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This product has not been CE marked.

# Thermoplastic Accessories



Large Water Bath	MTRH1500
Large Water Bath, 220 volt	MTRH1500EX

The **large water bath** measures 19 x 25 x 5" (48.3 x 63.5 x 12.7cm) and accommodates all thermoplastic sizes including Type-S™ head, neck and shoulders and HipFix® thermoplastics. A convenient timer is included to assist with keeping track of thermoplastic warming times.

## Water Bath Cart

The Waterbath Cart provides an easy, efficient way to transfer a waterbath from room to room. The cart measures 44 x 26 x 33" (111.8 x 66 x 83.8cm (L x W x H)) and has a load capacity of 400 lbs.

Water Bath Cart	MTMC011
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## Cold Mitt

The Cold Mitt contains a pliable gel that conforms easily to body contours, speeding the cooling of formed thermoplastic. The soft mitten should be stored in the freezer where the gel will remain flexible to -20°F (-28°C).



Cold Mitt	MTCB60
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## Cold Spray

Cold Spray is a quick and easy way to cool and harden thermoplastic masks. On contact the spray begins to cool the molded thermoplastic to speed the "cure" time.



Cold Spray	MTCB61
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This product has not been CE marked.

## Silicone Spray

Silicone Spray prevents thermoplastics from sticking to baseplates, frames or even patient's hair.



Silicone Spray	MTCB13
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This product has not been CE marked.



Commercial Water Bath, 120 volt	MTAPWW3V
Commercial Water Bath, 230 volt	MTAPWW3VEX

The **commercial water bath** measures 9 x 14.5 x 22.5" (22.8 x 36.8 x 57.1cm) and accommodates Uni-frame®, Type-S head-only masks and Posicast head-only masks.

## Miscellaneous Thermoplastic

Miscellaneous thermoplastic configurations are available for your convenience.

Thermoplastic Strip 1.375 x 24" (3.5 x 70cm)	MTAPS1839
Thermoplastic Contour Tubing, 36" (91.4cm)	MTAPS1100
Thermoplastic Pellets - 3lbs (1.36kg)	MTAPS3A

# Patient Marking

## SteriTatt® Black



SteriTatt Black Ink Cartridge, box of 30 MTSTBK  
 This product has not been CE marked.

## Disposable Rectal & Vaginal Markers

Multi-Modality Markers are artificial fiducial markers that provide a clear and accurate reference point on any type of scan. It appears as a bright object on CT, MRI and Nuclear Medicine scans and can be seen on all MRI sequences.



Disposable Rectal Marker, 10cm - 10/box	MTZM1710
Disposable Rectal Marker, 40cm - 10/box	MTZM1740
Disposable Vaginal Marker, 20cm - 10/box	MTZM1735

## Spee-D-Mark™

70

Spee-D-Mark virtually eliminates confusion of shadows or lesions on film.

Spee-D-Mark Wings feature the advantages of regular Spee-D-Mark with the added benefit of a special “winged” design for comfortable, conforming placement.

Spee-D-Wire is a valuable tool for marking complex scar tissue that might otherwise lead to confusing radiographic shadows. **Spee-D-Wire does not image in CT.**



Mark Type	Size	Qty/Box	Part Number
Standard	1.5mm BB	100	MTSDM15C
Standard	2.0mm BB	100	MTSDM20C
Wings	1.5mm BB	100	MTSDM15WC
Wings	2.0mm BB	100	MTSDM20WC
Wire	.2mm	120" length	MTSDW1C

These products have not been CE marked.

## Portal Markers

Set of marker tapes designed to outline the treatment field. The markers maintain accurate skin markings on the patient. This product is useful when planning multiple fields of treatment.

- Long lasting
- Comfortable
- Minimizes tattooing
- Water resistant

Mark Type	Qty/Box	Part Number
Standard - each sheet contains 8 field lines, 4 corners, 2 set-up points, 2 isocenters	50 sheets	MTPM100
Corners Only	50 sheets	MTPM125
Isocenter - 18 isocenters and 6 field lines	50 sheets	MTPM150

# Patient Marking

## Multi-Modality Markers

Multi-Modality Markers are artificial fiducial markers that provide a clear and accurate reference point on any type of scan. It appears as a bright object on CT, MRI and Nuclear Medicine scans and can be seen on all MRI sequences.

## Suremark® Skin Marking Labels

**Suremark** markers are useful in distinguishing between a nipple, shadow and lesion. **Suremark Tabs** maintain the advantages of the Suremark markers with an added tabbed feature. **Suremark Relief Tabs** have a unique adhesive-free center that won't stick to sensitive areas of the skin. The **Suremark Wire** is used for marking scar tissue, outlining palpable nodules, moles and entry points in CT scans.

**Powermark™** markers maintain the advantages of Suremark Marker and feature larger lead ball sizes for visibility in radiation therapy.

**Clearline** Scar Markers provide outlining of scars and other areas of concern. **Covermark** Labels protect temporary tattoos with a watertight seal for up to six weeks.

**Clearmarks** are metal-free and semi-lucent so you can see the marker and the underlying details.

**Visionmark** Markers are specially formulated **non-metallic** markers that perform consistently and accurately in a variety of applications. **Visionmark CT** markers are non-metallic and reduce read time on CT scans with virtually no scatter. **Visionline Relief Tabs** provide for consistent adhesion in every environment. Tack-free corners and centers are easy to grab and easier on your patients.



Mark Type	Qty/Jar	Part Number
Radiology/Radiation Therapy Marker - 15mm outer diameter, 3.5mm thick, 5mm axial hole, 2mm center hole	50 markers	MTZI3005

Suremark Type	Size	Qty/Box	Part Number
Suremark	1.0mm	110	MTSL10
Suremark	1.5mm	110	MTSL15
Suremark	2.0mm	110	MTSL20
Suremark	2.5mm	110	MTSL25
Suremark Tab	1.5mm	110	MTSL15T
Suremark Tab	2.0mm	110	MTSL20T
Suremark Relief	2.0mm	110	MTSL20RT
Suremark Relief	2.5mm	110	MTSL25RT
Suremark Wire	0.3mm	130"	MTSLW3
Suremark Wire	0.4mm	130"	MTSLW4
Suremark Wire	0.8mm	130"	MTSLW8
Suremark Wire	1.5mm	130"	MTSLW15
Suremark Arrow	1 x 8mm	100	MTSLARROW
Suremark Cross Ref	0.5"	50	MTSLCR1
Powermark	3.0mm	50	MTSL30
Powermark	4.0mm	50	MTSL40
Clearline	0.8mm	336cm	MTSLCL8
Clearline	1.0mm	336cm	MTSLCL10
Clearline	1.5mm	320cm	MTSLCL15
Clearline	2.0mm	320cm	MTSLCL20
Clearline	2.5mm	203cm	MTSLCL25
Clearline	3.0mm	165cm	MTSLCL30
Covermark	25mm	110	MTSLCM25
Covermark - alternative adhesive	25mm	110	MTSLCM25A
Clearmarks	Round	100	MTSLMO
Visionmark	1.5mm	110	MTSLV15
Visionmark	2.0mm	110	MTSLV20
Visionmark	2.5mm	110	MTSLV25
Visionmark CT	3.0mm	50	MTSLV30
Visionmark CT	4.0mm	50	MTSLV40
Visionmark CT	5.0mm	50	MTSLV50
Visionline Relief Tabs	1.5mm	110	MTSLV15N
Visionline Relief Tabs	2.0mm	110	MTSLV20N
Visionline Relief Tabs	2.5mm	110	MTSLV25N

# MRSeries™ Positioning Devices

MRSeries products are MRI compatible in 1.5 and 3T environments. All indexable MRSeries products are three-pin compatible.

## Three-Pin Lok-Bars™

Three-Pin Lok-Bars allow you to index MRI compatible devices to your MRI couchtop. They also help prevent non-MRI compatible devices from being used on an MRI machine.



Interloc 50cm Three-Pin Lok-Bar	MTIL3351
Prodigy 50cm Three-Pin Lok-Bar	MTIL3454
Prodigy 40cm Three-Pin Lok-Bar	MTIL3455

## MRI Type-S™ Overlay

The MRI Type-S Overlay is made of fiber glass with a foam core making it MRI compatible.



MRI Compatible Type-S Overlay	MTMRHNPN
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## Acrylic Uni-frame® Baseplates

See page 31 for options.



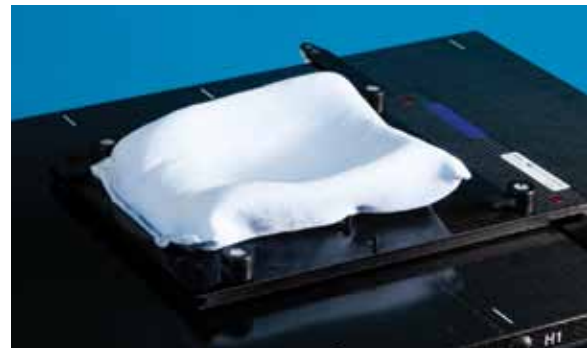
## Vac-Lok™ Cushions

See pages 62-65 for options.



## AccuForm™ Cushions

See page 39 for options.



## Headrests

All TIMO and Silverman Headrests are MRI-compatible, see page 35 for options.



See page 16 for information on available MRI couchtops.

# Proton Devices



As proton therapy emerges worldwide, CIVCO is proud to offer accessories that enable and enhance treatments by this modality. Our proton solutions include options ranging from our standard patient positioning and immobilization line to our new RFSuite, developed to track patients and treatment accessories across your facility.

Watch closely for new additions to the proton line in the coming months!

## Body Pro-Lok™

See pages 6-7.



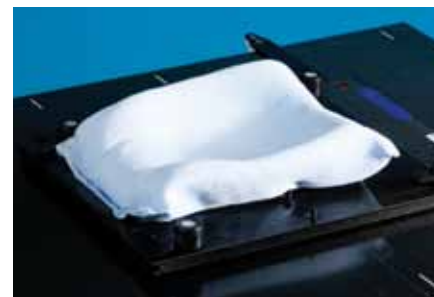
## Vac-Lok™ Cushions

See pages 62-65.



## AccuForm™ Cushions

See page 39.



## Individual Head Support

See page 40.



## Wing Boards™

See page 50.



## Kneefix™ 2 & Feetfix™ 2

See page 57.



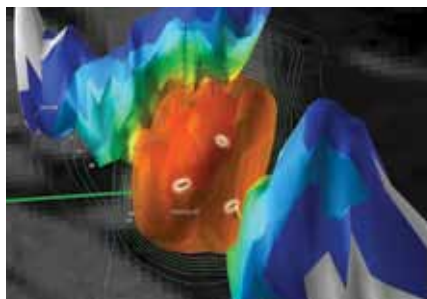
## ACCULOC® IGRT

See pages 74-75.



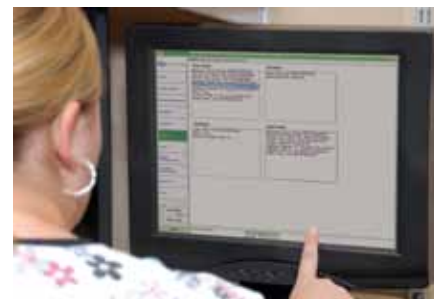
## Fiducial Markers

See pages 77-78.



## RFSuite™

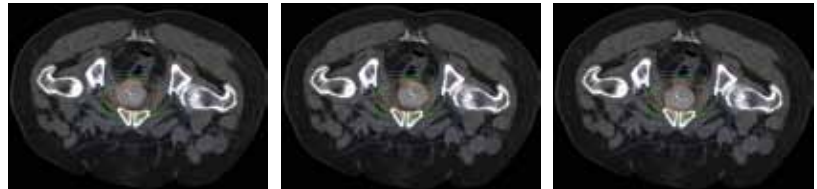
See pages 4-5.



## ACCULOC® IGRT

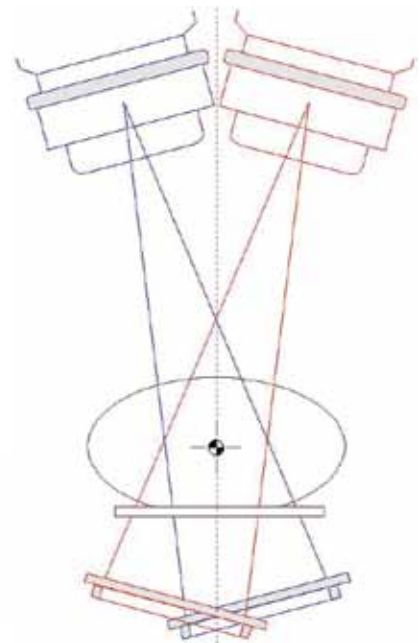
External mark setup introduces considerable target uncertainty resulting from internal organ motion and patient position variability. ACCULOC IGRT eliminates this uncertainty using implanted gold fiducials or anatomic landmarks with EPID or CR images. The 3D transformation software (ISOLOC™) outputs exact couch translations for high-accuracy, verifiable localization.

In addition, ACCULOC has the versatility to support image pairs at any angle - nonorthogonal images can accommodate larger patients, hip replacements and other challenges.



### Implanted Markers

Implanted gold fiducials are essential for organs that move with respect to bony anatomy, such as liver and prostate. Mouse-clicks register the markers on the initial image pair. For subsequent setups the software autodetects each marker, then registers the exact position from the center of the brightest shape. Finally the software outputs exact couch translations and coordinates for high-accuracy, verifiable localization.



### Anatomic Landmarks

Anatomic landmarks provide a less invasive localization option for targets that are fixed with respect to bony anatomy, such as head and neck tumors. ACCULOC uses unique anatomic landmarks and the full TPS DRR (digitally reconstructed radiograph) to align the target with the treatment machine isocenter.



## Features of ACCULOC® IGRT

- ISOLOC™ software utilizes a true 3D algorithm, providing rotational data and accurate 3D target location information.
- ISOLOC's couch translation feature outputs table shifts providing the exact couch coordinates necessary for precise patient/target localization.
- The entire process adds less than two minutes to the patient's daily treatment time.
- ISOLOC provides automatic DRR-EPID registration.

## New ISOLOC Software features

- Improved support for CR images
- Support for Varian Eclipse, CMS XiO and Prowess Panther™ DRR's in anatomic landmark matching mode.
- DICOM RT connectivity

## ACCULOC SIDEKICK™

The ACCULOC SIDEKICK software module remotely interfaces to your ACCULOC system from a network PC, enabling you to:

- Remotely enter patient demographics, CT marker locations and preferred gantry angles. This feature provides convenient case access while avoiding treatment console workflow disruption.
- Review previous setups including portal images used, couch shifts and angular information.
- Graphically analyze patient data, including 3D offsets, couch shifts, angular shifts and intermarker distances. This tool allows the user to print results and select studies to review by date range.
- Remotely review and sign-off on any patient setup just prior to treatment.

Enter patient demographics from any network PC in your clinic

## ACCULOC® IGRT & Kodak 2000RT CR Plus



Basic 2000RT CR Plus MTKDK8785040

This product is available in the US only.

The Kodak 2000RT CR Plus system acquires portal localization images using computed radiography (CR). This technology has been widely used in radiology departments for more than a decade.

The Kodak 2000RT CR Plus provides the high-quality digital images you need for accurate target positioning using the ACCULOC IGRT localization system. Sharp, crisp images are quickly imported into the ACCULOC localization software, clearly displaying the implanted gold fiducial markers – for accurate, verifiable target positioning.

The ACCULOC IGRT localization system provides high-accuracy localization through an internal reference system of three gold fiducial markers. The ACCULOC software imports the marker images and outputs both the couch moves and final couch coordinates necessary to position the target precisely at the isocenter.

### *Together these systems:*

- Allow radiation oncology centers to go filmless
- Facilitate fast, reliable couch positioning by importing CR images
- Reduce patient wait-time
- Minimize the need for additional PC's
- Provide affordable imaging
- Permit higher reimbursement

### *To use the Kodak System:*

1. Replace the film in a therapy or simulation cassette with a reusable phosphor plate. Then expose the plate using standard techniques just as for a film.
2. Remove the exposed storage plate from the cassette and place in the plate reader.
3. The reader scans a 2.5 MB image in 25 seconds and produces a high-quality digital image on the display. The plate is automatically erased for reinsertion into the cassette and reuse.
4. Use the digital enhancement and processing tools to review and manipulate the images to a desired look. The images can be sent to any DICOM destination on a network, including printers, image management workstations and image archives.



# Implantable Fiducial Markers

Implantable fiducial markers provide a highly effective method of ensuring accurate target localization for tumors/organs that move in respect to external anatomy, as well as for the precision localization needed for stereotactic radiotherapy. Our IGRT program led the industry in 1989 with the first commercially available system for cranial target localization. This momentum in research and development continues to keep us on the leading edge of advanced tumor targeting. The result is a comprehensive fiducial offering.

## Bone Markers

Bone Markers are pure gold 2mm spheres used in cranial and spinal applications. They are typically placed in a small hole in the bone and sealed with bone wax; with no marker migration.

## Gold Soft Tissue Markers

All Gold Soft Tissue Markers are pure gold cylinders specially knurled to inhibit migration. Standard Gold Soft Tissue Markers are 3mm long and 0.8, 0.9, 1.2 or 1.6mm in diameter. They are available individually or in sterilized preloaded needles.

**Align™ Markers** are 10mm long to accommodate localization software systems that utilize linear fiducials as opposed to multiple segment points. They are 1.2mm in diameter.

**CyberMark™ Markers** were developed specifically for use with Accuray's CyberKnife® robotic radiosurgery system. The gold marker measures 5.0mm long and 1mm in diameter, as specified in the CyberKnife software.

**Coupled™ Markers** are 3mm long with either 0.8 or 1.0mm diameters attached at a fixed distance – 20mm apart from center to center. They are secured with a sterile, tissue-absorbable material. This ensures that the markers are implanted at a known distance for calculating precise localization.

## Carbon Soft Tissue Markers

CIVCO continues to optimize imaging solutions for new IGRT modalities such as kV and cone-beam CT. The new carbon markers provide high-resolution kV localization requiring less dense materials with minimal CT artifacts.

Carbon markers are ideal for a wide variety of imaging modalities, including x-ray, mammography, fluoroscopy, kV, CT, MRI and ultrasound. The unique shape of the carbon markers inhibits migration.

## Suture-type Markers

Suture-type markers are designed for high accuracy breast tumor localization. They are applicable in any physician-designated location where migration potential is a concern. The pure gold spheres with small central holes are readily sutured in place to provide a permanent localization solution. Suture-type markers are available ready for placement – prethreaded on absorbable sutures.



Align Marker



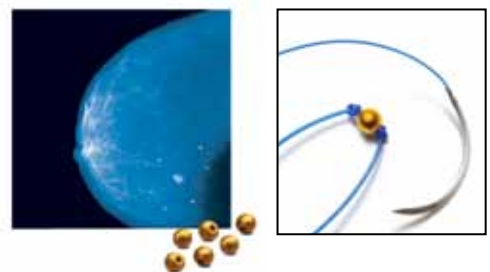
CyberMark Marker



Coupled Marker



Available in the US only.



# Fiducial Marker Options

Marker Type & Diameter	Marker & Needle Configuration & Qty.	Needle Length	Needle Gauge	Part Number
Bone - 2.0mm	3 - loose markers	-	-	MTNW887805
Gold Soft Tissue - 1.6mm	3 - loose markers	-	-	MTNW887816
Gold Soft Tissue - 1.2mm	3 - loose markers	-	-	MTNW887812
Gold Soft Tissue - 0.9mm	3 - loose markers	-	-	MTNW887809
Gold Soft Tissue - 0.8mm	3 - loose markers	-	-	MTNW887808
Gold Soft Tissue - 1.2mm	4 - loose markers	-	-	MTNW887814
Gold Soft Tissue - 1.6mm	1 needle w/ 1 marker per needle	20cm	14 GA	MTNW887861
Gold Soft Tissue - 1.6mm	3 needles w/ 1 marker per needle	20cm	14 GA	MTNW887860
Gold Soft Tissue - 1.2mm	1 needle w/ 1 marker per needle	20cm	17 GA	MTNW887830
Gold Soft Tissue - 1.2mm	3 needles w/ 1 marker per needle	20cm	17 GA	MTNW887825
Gold Soft Tissue - 1.2mm	4 needles w/ 1 marker per needle	20cm	17 GA	MTNW887840
Gold Soft Tissue - 1.2mm	1 needle w/ 1 marker per needle	30cm	17 GA	MTNW887836
Gold Soft Tissue - 1.2mm	3 needles w/ 1 marker per needle	30cm	17 GA	MTNW887835
Gold Soft Tissue - 1.2mm	4 needles w/ 1 marker per needle	30cm	17 GA	MTNW887837
Gold Soft Tissue - 0.9mm	1 needle w/ 1 marker per needle	12cm	18 GA	MTNW887871
Gold Soft Tissue - 0.9mm	3 needles w/ 1 marker per needle	12cm	18 GA	MTNW887870
Gold Soft Tissue - 0.9mm	1 needle w/ 1 marker per needle	20cm	18 GA	MTNW887872
Gold Soft Tissue - 0.9mm	3 needles w/ 1 marker per needle	20cm	18 GA	MTNW887873
Gold Soft Tissue - 0.9mm	5 needles w/ 1 marker per needle	20cm	18 GA	MTNW887874
Gold Soft Tissue - 0.9mm	1 needle w/ 1 marker per needle	20cm	17 GA	MTNW887875
Gold Soft Tissue - 0.9mm	3 needles w/ 1 marker per needle	20cm	17 GA	MTNW887876
Gold Soft Tissue - 1.2mm	1 needle w/ 2 markers spaced 10mm apart	20cm	17 GA	MTNW887810
Gold Soft Tissue - 1.2mm	1 needle w/ 2 markers spaced 15mm apart	20cm	17 GA	MTNW887815
Gold Align™ - 1.2mm	2 needles w/ 1 - 10mm long marker per needle	20cm	17 GA	MTNW887881
Gold Align - 1.2mm	3 needles w/ 1 - 10mm long marker per needle	20cm	17 GA	MTNW887882
Gold Align - 0.8mm	3 needles w/ 1 - 10mm long marker per needle	20cm	18GA	MTNW887883
Gold CyberMark™ - 1.0mm	3 - loose markers	-	-	MTNW887852
Gold CyberMark™ - 1.0mm	1 needle w/ 1 - 5mm long marker per needle	20cm	18 GA	MTNW887851
Gold CyberMark - 1.0mm	3 needles w/ 1 - 5mm long marker per needle	20cm	18 GA	MTNW887853
Gold Coupled™ - 0.8mm	2 needles w/ 2 markers coupled 20mm apart	20cm	18 GA	MTNW887709
Gold Coupled - 1.0mm	1 needle w/ 2 markers coupled 20mm apart	20cm	17 GA	MTNW887710
Gold Coupled - 1.0mm & Gold Soft Tissue - 1.2mm	2 needles - a needle with one 1.2mm marker and a needle with 2 - 1.0mm coupled 20mm apart	20cm	17 GA	MTNW887711
Gold Coupled - 1.0mm	2 needles w/ 2 markers coupled 20mm apart	20cm	17 GA	MTNW887712
Carbon Soft Tissue - 1.0mm	1 needle w/ 1 marker per needle	20cm	18GA	MTNW887901C
Suture-type	3 - loose markers	-	-	MTNW887863
Suture-type	3 prethreaded - 1 marker per needle and thread	-	-	MTNW887866
Needle Only	1 empty needle (no markers)	20cm	14 GA	MTNW887356
Needle Only	3 empty needles (no markers)	20cm	14 GA	MTNW887357
Needle Only	1 empty needle (no markers)	20cm	17 GA	MTNW887351
Needle Only	3 empty needles (no markers)	20cm	17 GA	MTNW887350
Needle Only	3 empty needles (no markers)	30cm	17 GA	MTNW887355

# IGRT Accessories

## Merrifield Cartridge™

The Merrifield Cartridge allows you to deploy two or more markers through the same needle with only one needle stick. After deploying the first marker, the stylet is simply removed and the Merrifield Cartridge is easily attached to the end of the needle. The tip of needle is then repositioned and the next marker is deployed. Depositing multiple markers with only one needle can be advantageous in a variety of different body locations. Patient comfort is increased by minimizing needle sticks.



Merrifield cartridge kit, sterile pre-loaded (1.2 x 3mm) soft tissue gold marker with (24.5cm) stylet for use with (17GA x 20cm) placement needle	MTNW887611
Merrifield cartridge kit, sterile pre-loaded (1.0 x 5mm) soft tissue gold marker with (24.5cm) stylet for use with (18GA x 20cm) placement needle	MTNW887621

## Surgical Tool Kit

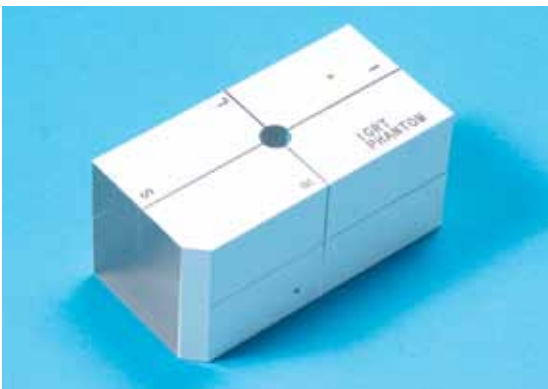
The Surgical Tool Kit assists in the process of implanting bone markers. The kit includes a gold marker placement tool, a 2mm drill guide, and two 2mm drill bits.



Kit (includes all items listed below)	MTNW887300
Gold Marker Placement Tool	MTNW887303
2mm Drill Guide	MTNW887302
Two - 2mm Drill Bits	MTNW887301

## IGRT QA Tool

This miniphantom was specifically designed to provide quality assurance analysis for each step of the IGRT process. It is precisely machined, supporting built-in fiducials that serve as measurable points at known locations. At the center is a 1cm sphere that can be used as the setup target.



IGRT QA Tool | MTNW425200

## ACCULOC® Printer

The ACCULOC label printer provides convenient attachable couch shift documentation for every setup.



Printer | MTNW425310

# Dosimetry Check IGQA™

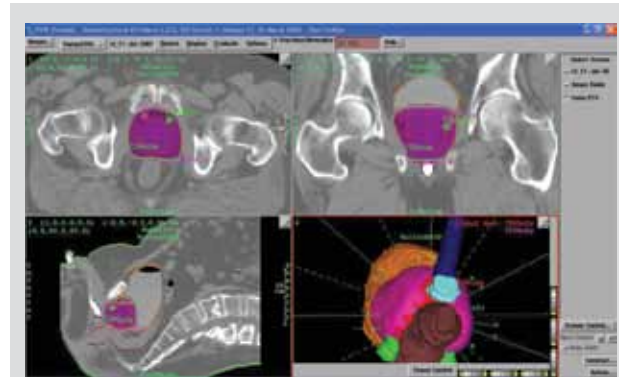
## An EPID Based 3D Absolute Patient Dosimetry System

**Why perform 2D single plane IMRT QA for 3D complex treatments?** Presently all QA analysis is calculated on a single plane not in or on the patient volume. The assumption being that acceptable measured results on a single plane equate to an approved treatment for target volume and critical structures. Experience has now shown that this is not necessarily true.

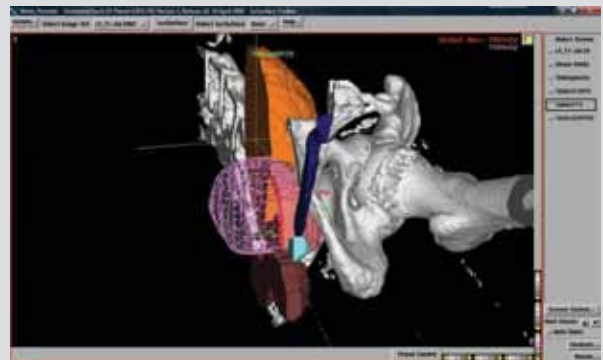
Dosimetry Check works with any EPID and any treatment planning system to provide a volumetric measurement for IMRT QA. Unlike other systems which use single plane QA Analysis, Dosimetry Check uses the patient CT data set as a Phantom. This is done by converting each beam's 2D image information to a Measured Calibrated Fluence which is then projected onto the patient's CT data set. In this way the delivered dose is reconstructed with the same CT data set as the original treatment plan thus allowing for planned and measured dose comparison. Plan comparison includes isodose overlays, dose profiles, point doses, dose differentials, 3D surface doses, 3D gamma analysis, Gamma Volume Histogram (GVH) analysis, and Dose Volume Histogram (DVH) analysis.

Some of the benefits and advantages of the Dosimetry Check technology over other phantom based systems include:

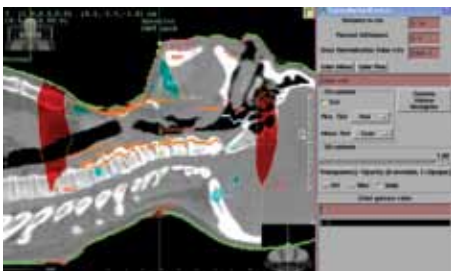
- Absolute Dose Calculation
- Works with any RTP System
- Supports VMAT and Rapid Arc™
- Works with Elekta, Siemens and Varian's Portal Visions R and E Arms
- Measured Dose Verification using Patient CT Data Set
- Structured Analysis: 3D Dose Volume (DVH) and Gamma Volume Histograms
- Printed numeric reports of 3D Dose Volume Histograms (DVH) for any structures
- Actual 3D Absolute Dose (measured analysis) vs. 3D predicted dose from any plan
- Also works with any linear ion chamber or diode array to achieve full 3D analysis



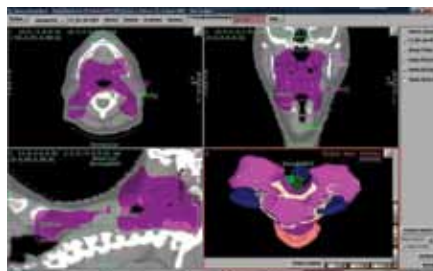
2D & 3D Prostate Analysis



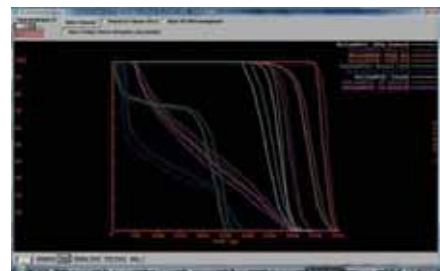
Prostate Cut-Plane Solid Dose with Bone



Gamma Analysis 2D & 3D



5600cGY 4-Frame Display



Dose Volume Histogram (DVH)

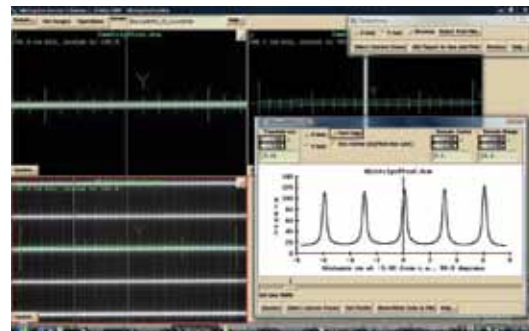
CE mark pending, available in 2009.

## LeafLine QA - EPID Based MLC QA



The LeafLine QA system allows the clinician to use a portal imager for quick and accurate MLC quality assurance. The system provides the option to use the jaws to define the central axis. Pre-defined protocols are used to calculate the 50% transmission point for each leaf and create a report which characterizes the error of each leaf and highlights any result greater than the tolerance specified.

- Compatible with all MLC and EPID systems
- Automatic garden fence and picket fence analysis
- Close up views and analysis of individual profiles
- Automatic report generation

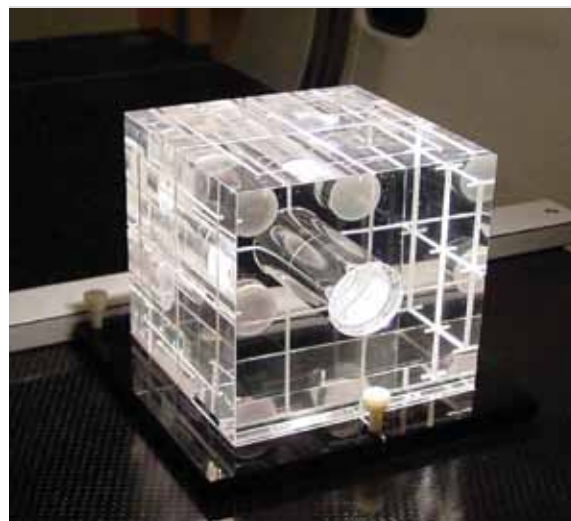


## Isis QA-1 Radiation Therapy Phantom



The Isis is a multipurpose, compact and easy to use phantom. It can be used for geometric laser verification, electron beam density constancy checks, CT SIM/treatment planning geometric volume checks and also provides a dose chamber for spot measurements.

- Two millimeter wide alignment verification grooves on the surfaces of the Isis QA-1 provide for easy viewing and quick alignment checks of laser beam positions
- Electron density verification inserts (bone, water, lung, air)
- Provides the ability to verify scanned image set position alignment from the radiology department to the radiation therapy department for geometric verification between machines.
- Accurate 10 x 10cm and 5 x 5cm fixed fields on three surfaces of the Isis QA-1 phantom provide for exact image and beam geometric QA verification
- Easy leveling base for setting up a level plane for the QA process from machine to machine.
- Single slice check for laser-offset verification with standard CT scanner or CT simulator.



### *The ISIS QA-1 package includes the following items:*

- ISIS-QA 1 Quality Assurance Phantom
- Quality Assurance Leveling Platform
- Round Bubble Level
- 9" Standard Level
- 50cm Ruler
- 2 inserts — 2.54cm Object Insert and Dose Chamber Insert
- Alignment Bar
- Protective Case



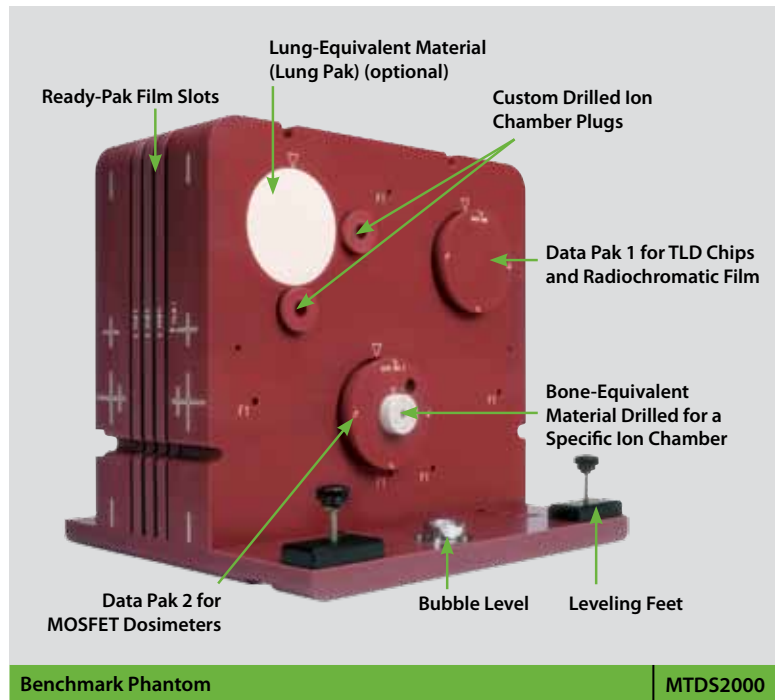
## Benchmark™ IMRT QA Phantom

The Benchmark IMRT QA Phantom is extremely versatile and is a key tool when commissioning an IMRT program as well as in routine QA or individual patient plans. The phantom accommodates a range of radiation measuring tools, including ion chambers, MOSFET dosimeters, TLD chips, radiochromatic film, Ready-pak film, polymer gel (optional) and diodes (optional).

Custom plugs can be drilled for ion chambers around lung-equivalent material and within bone-equivalent material. Ready-pak film can easily slide between the film slots and can be identified via fiducial coordinates made with a film marker and embedded fiducial markers. Dimensions: 18 x 30 x 35cm

### Features:

- Made of virtual water and can be used vertically or horizontally
- CT-friendly
- Absolute dose verification in multiple locations
- Verification of 3D volume dose distributions
- Ideal for evaluation of RTP inhomogeneity correction
- Verification of spatial magnification within CT image
- Two-pin compatible



Benchmark Phantom

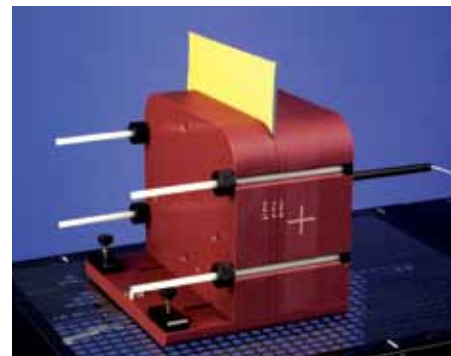
MTDS2000

## Benchmark™ Lite IMRT QA Phantom

The Benchmark Lite is a more compact version of the original Benchmark Phantom. The Benchmark Lite features a baseplate that supports five Virtual Water slabs held together with clamps. It can support three films with unique fiducial markers. It can also accommodate five ion chambers positions. The radius cut edges improve image quality. Dimensions: 30 x 17 x 25cm

### Features:

- Made of virtual water and can be used vertically or horizontally
- Two-pin compatible



Benchmark Lite

MTBML1000

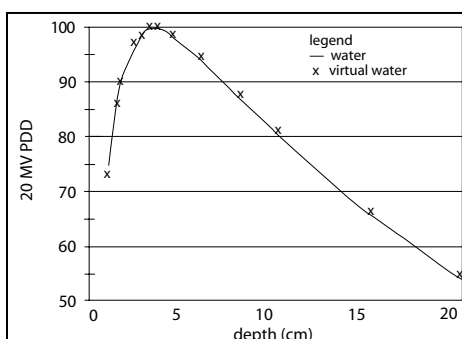
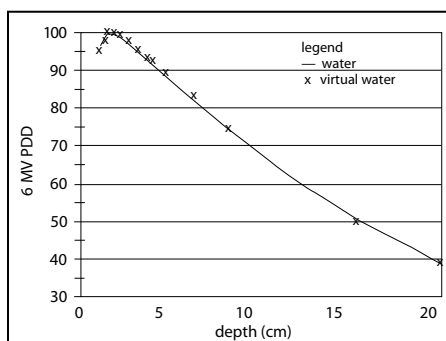
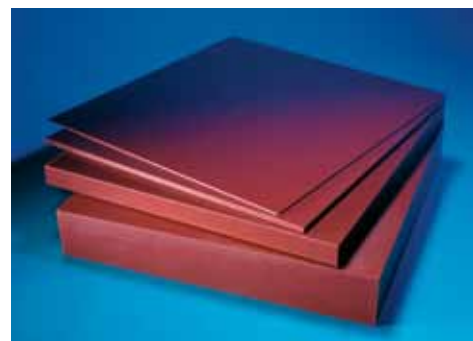
## Virtual Water®

Virtual water is a fresh alternative to water tanks and other water equivalent materials. This water-equivalent phantom material eliminates mass and maintains your ability to perform routine quality control checks of your linear accelerator. Whether using electron or photon beams, Virtual Water meets your needs for every application.

Virtual Water is free of contaminants and air. Each production run of Virtual Water is tested in an independent calibration lab certified to be within 1% of water at photon energies.

Virtual Water is available in 20 x 20cm, 30 x 30cm and 40 x 40cm sizes and in thicknesses that range from 0.1 to 6.0cm. Cavities are available in thicknesses of 2.0cm or greater to accommodate many commercially available ionization chambers.

Virtual Water's rigid design eliminates the potential for chamber damage. The unique material will not stick together when stacked or stored. Virtual Water's performance is not affected by changes in humidity or ambient temperature. It eliminates charge buildup and does not exhibit charge storage effects seen in other water-equivalent materials.



### Specifications

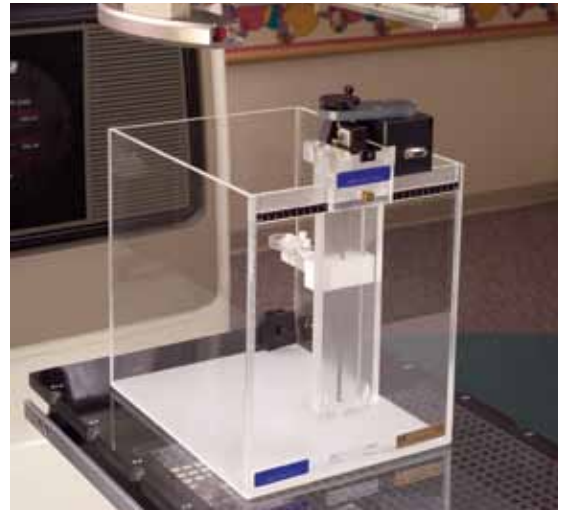
- Density: 1.03 g/cm<sup>3</sup>
- Thickness tolerance: ±0.15mm
- Length and width tolerance: ±0.5mm
- Batch consistence: ±0.02% (measured)

**Contact your account representative for more information about available sizes.**

## Water Tanks

CIVCO offers two compact water tanks that are 30.5 x 38 x 38cm or 38 x 38 x 38cm with 9.525mm thick acrylic walls. They also include a horizontal scale and water drain kit, as well as the choice of either a manual depth dose apparatus or a motorized depth dose system with remote control/readout.

The water tanks are small enough for convenient, quick setup; yet provide a sufficiently large internal volume for analysis of clinically relevant areas of radiation therapy beams. These water tanks are compatible with TG51 and other protocols for beam quality control.



Small Water Tank (tank only)	MT100T
Large Water Tank (tank only)	MT150T
These products have not been CE marked.	

### Manual Depth Dose System (shown above)

This device is constructed from acrylic, brass, teflon and stainless steel for accuracy and durability. The probe drive attaches to the side of the water tank and a top-mounted manual crank and a four-digit counter are provided for exact vertical positioning of the measuring probe within the tank. The total vertical travel of the probe holder is 25cm. The mechanical resolution of the vertical drive mechanism is .1mm. The manual depth dose device may also be relocated horizontally along the wall of the tank using the horizontal scale provided. Acrylic probe holders for micro chambers, farmer-type chambers or parallel plate chambers are included with this system.

Small Tank w/ Manual Depth Dose	MT100
Large Tank w/ Manual Depth Dose	MT150
Manual Depth Dose System (tank not included)	MTDDA
These products have not been CE marked.	

### Motorized Depth Dose System

The Motorized Depth Dose System employs all the mechanical components of the Manual Depth Dose System with the added convenience of controlling the vertical probe position remotely from the console. A motor controller/readout module with control switches and four-digit LCD counter enable the physician to remotely drive the ionization chamber within the tank. The motorized depth dose apparatus eliminates the tedium of repeated manual repositioning of the probe. **It is available in 110 volt only.**

An upgrade is available for those who already have the Manual Depth Dose System.



Small Tank w/ Motorized Depth Dose	MT100M
Large Tank w/ Motorized Depth Dose	MT150M
Motorized Depth Dose System (tank not included)	MTDDAM
Motorized Depth Dose Upgrade	MTDDAUPGRADE
These products have not been CE marked.	

## Max 4000 Electrometer

The Max 4000 Electrometer is a superior instrument for accurate measurement of an extremely wide range of all brachytherapy sources, low dose rate, high dose rate and cardiovascular. It is versatile enough to be used for all external beam and diagnostic imaging applications.

A built in digital filter eliminates the effect of noise, resulting in a stable and exact measurement. The amp, coulomb and collection time can be displayed simultaneously. The Max 4000 is easy to use with features like a straightforward intuitive user interface, user-activated automatic zeroing, and an easy-to-read large LCD display.

The MaxComm software, included with all MAX 4000 purchases assists with: record keeping, automatic calculations, remote electrometer control and data export in Excel format.



Max 4000 Electrometer	MTSI90015
Max 4000 Electrometer - Calibrated	MTSI90015CAL

### Applications

**Brachytherapy:** Due to exceptional sensitivity and a wide dynamic range, the MAX 4000 is ideal for all brachytherapy measurements. It provides immediate measurements of even the lowest activity isotopes (e.g. a signal of 1.458pA for a 0.27mCi Iodine seed) and can also measure 10Ci and higher Iridium sources.

**External Beam:** The Max 4000 accommodates all ion chambers typically used for data acquisition in water phantoms and routine quality assurance tests.

**Diagnostic Radiology:** Max 4000 is ideally suited for all mammographic, conventional radiology and CT applications.

## Ion Chambers

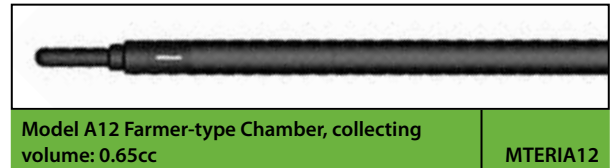
Exradin ion chambers are an exceptional choice for use in external beam calibration, quality assurance, dose assessment, depth-dose studies, mixed field dosimetry, radiation monitoring, background measurements and research studies. Characterized by careful design with over 30 years of scientific integrity and sturdy construction, Exradin Ion Chambers offer uncompromising performance.

### *Farmer-type Ion Chamber - Model A12*

Exradin Farmer-type Chambers are specifically designed for absolute dosimetry calibrations in water, air or other phantom material. The Model A12S thimble chamber is a modified Model A12. The collector length of the Model A12S is approximately one-third the size of the Model A12, which confines its collecting volume to more of the tip of the chamber.

Its waterproof construction and two piece removable stem makes it ideal for use in water phantoms. The chamber vents through a flexible tube that surrounds the triaxial cable, ensuring the collecting volume is in pressure equilibrium with the surroundings. The design assures there are no stem or voltage soakage effects, providing precise, and reliable measurements.

Farmer-type Chambers are constructed of rugged C552 Shonka air-equivalent plastic, providing excellent conductivity and years of reliable use.

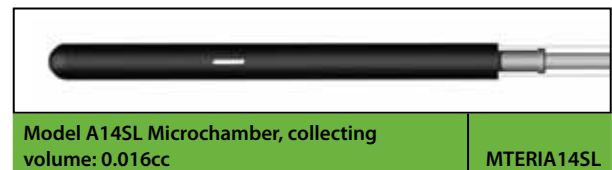


### *Microchamber - Model A14SL*

The Model A14SL Microchamber is designed specifically for assessing radiation fields encountered in IMRT and stereotactic radiosurgery. The entire chamber of the A14SL has the uniform diameter of 66.4mm (0.25") which is ideal when fitting into a small phantom. The Microchamber is capable of measuring extremely small field sizes of 4mm by 6mm, allowing for exceptional spatial resolution and exact pinpoint beam profile characterization.

The chamber vents through a flexible tube that surrounds the triaxial cable, ensuring the collecting volume is in pressure equilibrium with the surroundings. The design assures there are no stem or voltage soakage effects, providing precise and reliable measurements.

The Model A14SL is constructed of rugged C552 Shonka air-equivalent plastic, providing excellent conductivity and years of reliable use. Waterproof construction eliminates need for additional protective coverings.

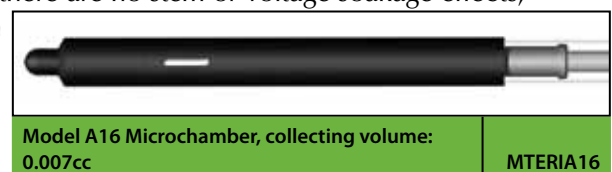


### *Microchamber - Model A16*

Model A16 Exradin Microchamber is designed primarily for IMRT and stereotactic radiosurgery applications, which use cobalt and higher energy beams. The Model A16 Microchamber is capable of measuring extremely small field sizes of 3.4 x 3.4mm, allowing for exceptional spatial resolution and exact pinpoint beam profile characterization.

The chamber vents through a flexible tube that surrounds the triaxial cable, ensuring the collecting volume is in pressure equilibrium with the surroundings. The design assures there are no stem or voltage soakage effects, providing precise and reliable measurements. A typical calibration factor for air kerma in a cobalt beam is  $3.5 \times 10^9 \text{Gy/C}$ .

The Model A16 is constructed of rugged Shonka air-equivalent plastic, providing excellent conductivity and years of reliable use.



### Miniature Shonka Thimble Chamber - Model A1SL

The Exradin Miniature Shonka Thimble Chamber provides a perfect balance between fast scanning and point dose measurements within 1cm in water, air, or other phantom material. The chamber of the A1SL has a uniform diameter of 6.4 mm (0.25"), which is ideal when using a small phantom.

The chamber features exceptional spatial resolution for relative dosimetry scanning and is capable of measuring small field sizes of 6 x 8mm for accurate point dose measurements. Its waterproof construction makes it ideal for use in water phantoms. The chamber vents through a flexible tube that surrounds the triaxial cable, ensuring the collecting volume is in pressure equilibrium with the surroundings. The design assures there are no stem or voltage soakage effects, providing precise and reliable measurements.

The Model A1SL is constructed of rugged C552 Shonka air-equivalent plastic, providing excellent conductivity and years of reliable use.



Model A1SL Thimble Chamber, collecting volume: 0.057cc

MTERIA1SL

### Spokas Parallel Plate Chamber - Model 11

The Model 11 Spokas Parallel Plate Chamber is a vented, waterproof and fully guarded ion chamber ideally suited for routine electron beam measurements and for depth-dose studies in electron, photon, proton and neutron beams. Its 4.4mm guard ring width exceeds the 3mm recommendation in TG 39 ensuring precise depth-dose measurements with no perturbation in field lines even at low energies.

Its sensitive volume makes it ideal for dose distribution measurements in a water phantom, providing excellent spatial resolution. The Model 11 is inherently waterproof and may be operated while fully submerged without any kind of protective sheath. The Model P11 is characterized for TG 51 and TG 398.

The Model P11 is constructed of rugged C552 Shonka polystyrene-equivalent plastic, providing excellent conductivity and years of reliable use.



Model A11 Spokas Parallel Plate Chamber, Air-equivalent plastic, collecting volume: 0.62cc

MTERIA11

Model P11 Spokas Parallel Plate Chamber, Polystyrene-equivalent plastic, collecting volume: 0.62cc

MTERIP11

## PTW Ion Chambers

### *Farmer® Chamber - 0.6cm<sup>3</sup>*

The 0.6cm<sup>3</sup> PTW Farmer chambers are designed for absolute photon and electron dosimetry with therapy dosimeters. The type 30013 is the waterproof standard chamber for absolute photon and electron dosimetry. The nominal useful energy range is from 30 keV to 50MeV. This chamber type is of rugged construction, since the wall material is graphite with a protective acrylic cover and the electrode is made of aluminum.

The guard rings of all chamber types border the measuring volume. An acrylic build-up cap for in-air measurement in Co-60 beams is included (chambers 30010/11/12), as well as a calibration certificate.

Farmer Chamber, 0.6cm<sup>3</sup>

MTPTWTN300061

### *Semiflex Chamber - 0.3cm<sup>3</sup>*

The semiflex chamber is designed for therapy dosimetry, mainly for dose distribution measurements in motorized water phantoms. They have a short stem for mounting and a flexible connection cable. The nominal useful energy range is from 30keV to 50MeV photons.

The wall material is graphite with a protective acrylic cover. An acrylic build-up cap for in-air measurement in Co-60 beams is included with each chamber, as well as a calibration certificate for calibration in absorbed dose to water or in air kerma. Air density correction is required for each measurement, and a radioactive check device is available as an option. The chamber is shaped cylindrically with an inner diameter of 5.5mm.

Semiflex Chamber, 0.3cm<sup>3</sup>

MTPTWT31003

# Mechanical Alignment

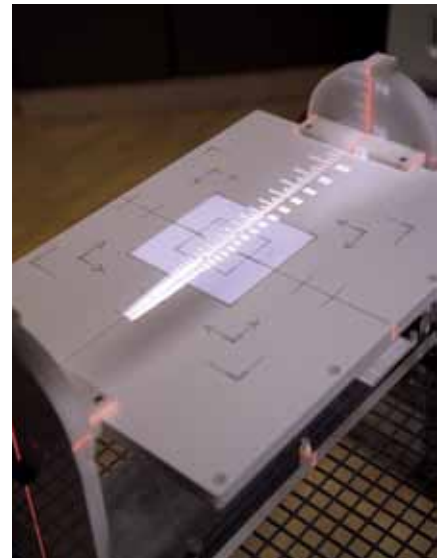
## *Iso-Align™*

The Iso-Align is a multi-purpose, precision alignment device which assists in the routine quality control of lasers, linear accelerators and simulators. The Iso-Align accommodates a convenient film pack for radiation and light field verification. The Iso-Point Rotational Runout Tool on the Iso-Align allows you to accurately and easily verify the mechanical isocenter of the gantry. The Iso-Point is attached to a side panel of the Iso-Align device, extends 26cm from the side panel and has a pointer tip with a 2mm diameter.



Iso-Align

MTIAD1



The Iso-Align accurately and easily assists in multiple precision alignment procedures without repositioning the device including:

- Alignment of all lasers
- Collimator and table/couch rotational angle readout accuracy
- Light field alignment and jaw readout accuracy
- Mechanical isocenter of collimators and treatment tables/couches
- Optical distance indicator (ODI) accuracy at various distances
- Port film grid alignment
- Radiation and light field coincidence at various gantry angles
- Radiation isocenter of collimators, gantries and treatment tables/couches

## *TG66 CT Simulation Laser QA Device*

This unique device is an accessory designed specifically to check the performance of electromechanical components, simple geometric and imaging properties of CT scanners in accordance with AAPM protocol TG66. Gantry and vertical side-wall lasers can also be checked. The device is two-pin indexable and requires a two-pin Lok-Bar™.



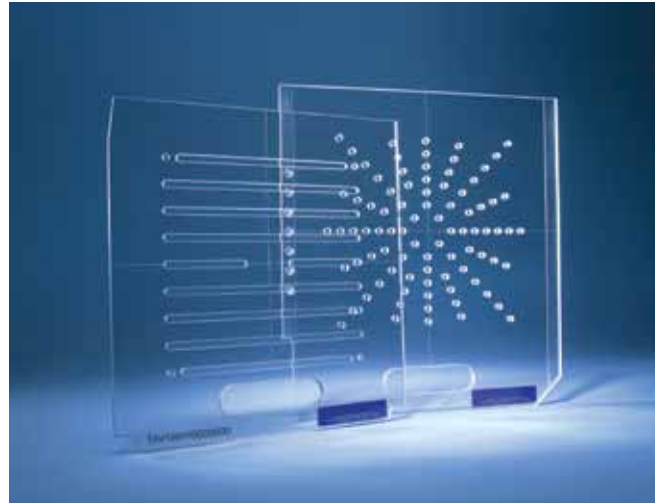
TG66 CT Simulation Laser QA Device

MTTG66

## Blocking Trays

All CIVCO blocking trays are precision machined to exact specifications. Trays are available with standard hole and slot patterns. Available in polycarbonate (Lexan) or acrylic (depending on model). Trays feature scribed axis lines, a locking notch and a coding system. Both analog and digital coding are available depending on machine make and model.

*Contact your account representative for more information on available trays.*



## Cold Plates

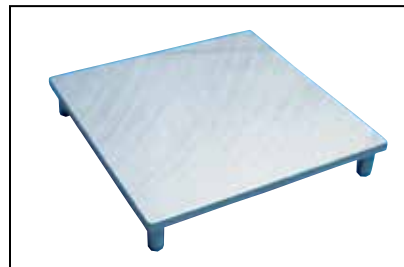
### Water-Cooled Plate

This flat aluminum plate is inlaid with copper coils for efficient water flow and heat dissipation. It features four leveling feet and flexible intake and discharge hoses. It measures 1/2 x 12 x 24" (1.3 x 30.5 x 61cm).

Water-Cooled Plate	MTCB100
This product has not been CE marked.	

### Air-Cooled Plate

The air-cooled plate features a flat aluminum plate with leveling feet. It measures 12 x 24 x 1/2" (30.5 x 61 x 1.3cm).



Air-Cooled Plate	MTCB114
This product has not been CE marked.	

## Shielding Alloy

Shielding alloy is available in both low-melt and medium melt ingots. Shielding alloy is packaged in convenient 50 pound cartons.

Low-melt alloy melts at 158°F (70°C) and its recommended pouring temperature is 175-180°F (79-82°C).

Medium-melt, cadmium-free alloy melts at 203°F (95°C) and its recommended pouring temperature is 220-225°F (104-107°C).



Low-Melt Alloy - 50 pounds	MTA158
Medium-Melt Alloy - 50 pounds	MTA203
These products have not been CE marked.	

## Alloy Melter

This highly-durable production melter has a heavy-gauge stainless steel inner and outer wall construction, with full-wrap ceramic heaters. The heated ball valve dispenser helps prevent nozzle blockage.

The alloy melter is available in two sizes, 1.0 gallons and 3.0 gallons. Its digital readout provides a constant temperature reference, along with programmable tank and dispenser temperature settings. It can be used with either low-melt or medium-melt alloy. Both 110 and 220 volt models are available.



Alloy Melter - 1.0 gallon, 110 volt	MT801.5D
Alloy Melter - 1.0 gallon, 220 volt	MT801.5DEX
Alloy Melter - 3.0 gallons, 110 volt	MT803D
Alloy Melter - 3.0 gallons, 220 volt	MT803DEX

## Foam

### FlatFoam™

FlatFoam is a high-quality 40 PSI Dow® Oncology Styrofoam designed to provide the flat surface essential to the shielding block pouring process.

FlatFoam is specifically tailored to create dimensional uniformity. The quality of this foam eliminates the need for heavy weights or clamps that are often required to stop alloy leakage from uneven foam. FlatFoam is CFC-free with a fine grain and consistent thickness.

***Additional sizes and quantities are available, contact your account representative for more information.***

### Electron Foam

Electron foam is available in a standard range of dimensions and thicknesses.

***Contact your account representative for more information on available dimensions and thicknesses.***



Flat Foam 8 x 8 x 3" - Qty. 90	MTFF1A
Flat Foam 10 x 10 x 3" - Qty. 54	MTFF2A
Flat Foam 12 x 12 x 3" - Qty. 40	MTFF3A



Foam 10 x 10 x 0.5" - Qty. 75	MTFF37C
Foam 10 x 10 x 0.75" - Qty. 60	MTFF53C
Foam 12 x 12 x 1" - Qty. 60	MTFF43B

# Hot Wire Cutters

## Styro•former™

Three Styro•former units are available to meet your foam cutting needs. The Styro•former is only available in 110 volt versions but a 220 volt upgrade is available.

The **Basic Styro•former** includes a verification light, three tracing tips (20, 40 and 60cm) and self-locating block holding arms.

The **Styro•former Booster System** includes all the features of the Basic Styro•former with a hot-wire temperature booster and alarm system. The booster system increases cutting wire temperature when the wire deflects a given amount. A simple switching system reroutes the current through another circuit with its own potentiometer, which the operator can set to his/her preference.

The **Styro•former Powerlift Light** has all the features of the Basic Styro•former but also includes motorized adjustment of source and block arms.



Basic Styro•former	MTSF319
Styro•former with Booster System	MTSF3191
Styro•former Powerlift Light	MTSF3193
220 Volt Upgrade	MTSF653

## Foam Cutter

This countertop foam cutter features an easy-to-change NiChrome wire assembly and a large cutting surface, making this an ideal unit for cutting electron foam. The Foam Cutter is available in both 110 or 220 volt models.



Foam Cutter, 110 volt	MT900
Foam Cutter, 220 volt	MT900EX

These products have not been CE marked.

## Compu•cutter®

The Compu•cutter uses precise, digitized radiograph outlines to cut shielding block molds with ±1mm accuracy. Block outlines can be manually digitized or transferred from treatment planning systems. A windows based program digitizes and stores files



for future reference or quick modifications. The Compu•cutter can “flip” images for fast AP/PA or L/R lateral blocks, or easily change any parameter without re-digitizing. A four-axis, CNC cutter is safely enclosed in our self-contained model.

Compu•cutter III, includes cutter, software, digitizer, computer system & printer, 220 volt	MTSFCC31001EX
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Not available in the US.

# Block Casting Equipment

## Casting Station

The Casting Station maximizes the size of your mold room and improves labor and production efficiencies while improving block quality. The complete station measures 43.5" wide x 29" deep x 85" high (110.5 x 73.7 x 215.9cm) and includes:

- An alloy melter with digital readout, precise temperature control and no-drip ball valve dispenser. The melter is mounted on a roller carriage for convenient front-to-back movement over the cold plate.
- A large capacity, precision surfaced refrigerated cold plate measuring 42 x 24" (106.7 x 61cm) to accommodate six blocks. A 350 cfm vent hood\* with blower.
- Includes either a vent hood and fan or an electronic air cleaner.
- Sturdy cabinets for convenient storage.

An optional air cleaner\*\* provides safer, cleaner air in your mold room – 98% efficient at .03 microns.

No plumbing is required. Both 110 and 220 volt models are available.

\*Note: Vent hood requires roof or sidewall exhaust turbine installed on site by a local HVAC contractor, and is only available on 110 volt units.

\*\*Note: No outside venting is required for electronic air cleaner.



Casting Station, 110 volt (electronic air cleaner)	MT1000SE
Casting Station, 220 volt (electronic air cleaner)	MT1000SEEX
Casting Station, 110 volt (vent hood & fan)	MT1000

## Block Casting System

The MT-550 series block casting system provides an efficient and cost-effective system for producing quality shielding blocks. The MT-550 system features a solid-state electronic alloy melter mounted on a flat refrigerated cold plate. The alloy melter features a digital readout, push-button programming and an industrial ball-valve dispenser that eliminates drips and clogs.

The cooling plate is precision surfaced and measures 36 x 24 x 0.75" (91.5 x 61 x 2cm) to accommodate three or more blocks at once. The optional built-in vibrator enhances block homogeneity and speeds the cooling process. Base measures 18 x 14.5 x 40.5" (45.75 x 37 x 103cm)

Amps: 8 (base), 6 (melter)

Weight: 200lbs (90kg)

### Advantages

- Increases block production
- Improves block homogeneity
- Compact, safe, efficient



Block Casting System, 220 volt	MT550EX
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Not available in the US.

# Block Casting Equipment

## Work Station

This modular system is designed to meet your needs for safety and efficiency. The basic unit features:

- A stainless steel work surface
- Full-swing European doors for convenient access to underneath storage
- Interior surfaces covered in washable, durable white vinyl

Workstation measures 48" wide, 80.5" high and 29" deep (122 x 204.5 x 73.75cm)

Special options:

- Storage cabinet fitted with a foam retrieval system with stainless steel divider panels. Simply pull the handle to dispense foam block.
- An 8" Delta drill press made of heavy-duty cast iron - ideal for drilling blocks and trays
- An OSHA-approved H.E.P.A. vacuum for safe clean-up of lead and cadmium dust. The vacuum and hose are stored in the base with a convenient hose access port in center of cabinet.



Workstation, 110 volt	MT1048WS
Workstation, 220 volt	MT1048WSEX

## H.E.P.A. Vacuum

An OSHA-approved H.E.P.A. vacuum for safe clean-up of lead and cadmium dust.



H.E.P.A. Vacuum w/attachments, 6 amp, 110 volt	MTCBHV6
H.E.P.A. Vacuum w/attachments, 4 amp, 220 volt	MTCBHV6EX

## Island Blocking Device

The Island Blocking Device holds down foam "islands" during block casting procedures. The device is made of sturdy lexan with steel pins to lock down the foam. It is 10.75" x 10.75" (27.3 x 27.3cm).



Island Blocking Device	MTCHALGN10
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# Tools & Safety Gear

CIVCO offers a variety of tools to create an efficient custom blocking operation including:

- Digital Probe Thermometer - This easy-to-read thermometer utilizes a backlit LCD to display both Fahrenheit and Celsius. It offers a range of -40°F to 300°F (-39.9°C to 148.7°C). It provides accuracy  $\pm 0.2^\circ\text{F}$ . A durable plastic carrying case is included.
- Stainless steel 20oz. pitcher
- Silicone Mold Release (see page 66 for more information)
- Digital level readout to 1°



Pocket Thermometer	MTCB17
Digital Probe Thermometer	MTCB16



Pitcher	MTCB04
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Silicone Spray	MTCB13
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Digital Level	MTDROL
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## Safety Gear

**Equipment Cleaner** effectively removes lead and most heavy metals from washable surfaces. The **hand soap** is specially formulated to quickly and effectively wash away most heavy metals from skin and pores. It is free of EDRA, chelates, phosphates and abrasives and won't irritate the skin or eyes.



Work Apron	MTCB06
Protective Eyewear	MTCB07
Solvex Gloves	MTCB05
Dust Mask	MTCB08



Tacky Mat 18 x 36"	MTCB41
Tacky Mat 18 x 46"	MTCB42
Tacky Mat 25 x 45"	MTCB43
Tacky Mat 36 x 36"	MTCB44



Equipment Cleaner, 32oz. Spray Bottle	MTMRC32SPRAY
Equipment Cleaner, 1 Gallon Refill	MTMRC1G
Hand Soap, 8oz.	MTMRS8PUMP
Hand Soap, 1 Gallon Refill	MTMRS1G

## Mold Room Services

### *Air Sampling*

To comply with OSHA regulations, every facility that fabricates shielding blocks should conduct air sample analysis and post the results. CIVCO offers one-week rentals on OSHA-approved air sample pumps and filters. Simply conduct an eight-hour sample according to the instructions, then ship the pump and filter back to CIVCO. A written analysis will be sent back in three to four weeks.



Air Sampling

AIRTEST

### *Wipe Test*

The convenient mold room wipe test includes wipes, sample containers and a test area template. Simply conduct the test according to the instructions and return the sample to CIVCO. In three to four weeks a written analysis will be available of both lead and cadmium levels to determine the effectiveness of clean-up procedures.



Wipe Test

WIPETEST

### *Alloy Recycling*

Alloy recycling services are available. Contact your account representative for details.

Alloy Recycling

MTRBK

### *Mold Room Safety Manual*

Contact your account representative for your free copies of our Mold Room Safety Manual and the OSHA Booklet 3136 on Occupational Exposure to Cadmium. Or download a copy at [WWW.CIVCO.COM](http://WWW.CIVCO.COM) in the customer support section.

## Grip Rings™ & Strap

### Grip Rings

Grip rings offer patients an extra measure of security and comfort. The tough blue vinyl is smooth and easy to wipe clean with most antibacterial solutions. Grip Rings are sold individually and in sets.



Ring for Small Hands - 3" inside diameter	MTVIP181
Ring for Average Hands - 4.25" inside diameter	MTVIP182
Ring for Large Hands or Small Feet - 6" inside diameter	MTVIP183
Set of 3 rings - 3, 4.25 and 6" inside diameter	MTVIP166
Set of 4 rings - 3, 4.25, 6 and 8" inside diameter	MTVIP1664

These products have not been CE marked.

### Table Strap

The Table Strap ensures patient control, safety and comfort with a strong material that feels soft to the touch. The Table Strap features a two-way adjustable fastener made of double-faced Velcro® brand loop. It can be washed and sterilized. Individually packaged.



Table Strap | MTVIP173

This product has not been CE marked.

## General Storage

### Mobile Accessory Cart

This accessory cart has been specially designed to hold a wide variety of patient positioning and fixation devices. The cart can hold up to 300lbs. (135kg) and measures 40 5/8 x 20 x 37 13/16" (103.2 x 50.8 x 96cm). An optional storage bin is available for storing smaller items.



Mobile Accessory Cart (does not include storage bin) | MTMC020  
Storage Bin | 20MC02005

# Patient Shielding

## Tungsten Eye Shields

Tungsten eye shields have been clinically tested and proven to provide adequate protection of the ocular structure for electrons up to 9MeV. Each eye shield is coated with dental acrylic on the beam entrance side of the shield to reduce electron back scatter to an acceptable level.

Eye shields are sold separately in three sizes: small (19.5mm), medium (23mm) and large (25mm).



Eye Shield - Small - Qty. 1	MTT45S
Eye Shield - Medium - Qty. 1	MTT45M
Eye Shield - Large - Qty. 1	MTT45L

## Testicle Shields

Testicle shields are designed to reduce scatter radiation to the testicles. Each unit is cast to provide a lead wall with a thickness of 1/2" (1.25cm) and features an open sector to allow comfortable attachment to the patient. All surfaces are coated with a polyurethane paint to reduce lead exposure.

The shield's top and bottom sections are secured with either the two included rubber straps or nylon tape. When using the testicle shield stand, no straps are needed – a special dome and groove between the two halves of the shield stop leakage and prevent them from sliding apart.



Testicle Shield - Small	MTTSS
Testicle Shield - Medium	MTTSM
Testicle Shield - Large	MTTSL

These products have not been CE marked.

## Testicle Shield Stand

This adjustable stand offers increased patient comfort while raising or lowering the shield. A manual adjustment knob allows for easy vertical positioning from 1" to 10". The stand can be used for anterior and posterior treatments.



Testicle Shield Stand	MTTSST
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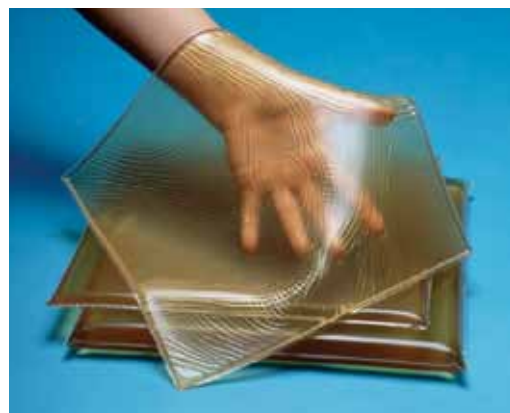
This product has not been CE marked.

## Bolus

Bolus is made from a solid, homogeneous, tissue-equivalent gel with a density of 1.03g/cc. It will not sag, deform or run.

Bolus is available encased in a tough layer of thin plastic “skin”, or “skinless” or sticky for greater conformity to steep body contours. It is closely controlled for uniformity of thickness, electron density and homogeneity. Bolus sheets can be cut with a scissors to any desired shape and layered to obtain the desired bolus effect.

Bolus is the ideal choice for applications above 1MV where additional tissue-equivalent thickness is required. It can also be used as a phantom material due to its homogeneous composition and uniform thickness.



### Skinless Bolus

Dimensions	Thickness	Part Number
30 x 30cm	0.3cm	MTCB403
30 x 30cm	0.5cm	MTCB405
30 x 30cm	1.0cm	MTCB410
30 x 30cm	1.5cm	MTCB415
30 x 30cm	2.0cm	MTCB420
30 x 30cm	3.0cm	MTCB430
30 x 30cm	4.0cm	MTCB440

These products have not been CE marked.

### Bolus With Skin

Dimensions	Thickness	Part Number
30 x 30cm	0.3cm	MTCB403S
30 x 30cm	0.5cm	MTCB405S
30 x 30cm	1.0cm	MTCB410S
30 x 30cm	1.5cm	MTCB415S
30 x 30cm	2.0cm	MTCB420S
30 x 30cm	3.0cm	MTCB430S
15 x 15cm	0.5cm	MTCB455S
15 x 15cm	1.0cm	MTCB450S
15 x 15cm	1.5cm	MTCB465S
15 x 15cm	2.0cm	MTCB470S
40 x 40cm	1.0cm	MTCB404010S

These products have not been CE marked.

## ALRA Skin Care

This special line of skin care products is designed to provide gentle, effective care for patients undergoing radiation therapy. Highly concentrated levels of natural and active ingredients offer comfort and promote healing.

The moisturizer contains aloe vera, lanolin, Vitamin E, collagen and allantoin. It is alcohol and fragrance-free.

Unlike regular antiperspirants, the ALRA deodorant stick contains no metallic ingredients that can interfere with radiation. It contains the natural astringent, cypress oil and the natural antibacterial lichen.

Your patients can order ALRA products directly from CIVCO.



Therapy Lotion - 4oz.	MTCBALRASL4
Non-Metallic Deodorant	MTCBALRAD

These products have not been CE marked.

### Calipers

Body Calipers can be used for tabletop distances to determine central-axis and off-axis measurements. The reversing caliper orientation assists in determining separations such as laterals, obliques and off-table measurements. The wide base ensures perpendicularity to tabletop. A color-coded scale on both sides eliminates confusion with scale orientation.

It is made of precision-machined aluminum with a gold-tone finish. Components are hand-tapped, counterbored and assembled with steel screws for strength and stability. The easy-to-read screen printed scale is protected from wear by a recessed sliding scale indicator.



Body Caliper - 25cm	MTBC25
Body Caliper - 45cm	MTBC45
Body Caliper - 55cm	MTBC55

These products have not been CE marked.

### Patient Transfer Board

The Patient Transfer Board is designed to ease patient transfer from a bed or stretcher to a treatment table with minimum effort. The board is constructed of a durable polyethylene material.



Patient Transfer Board	MTVIP40
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This product has not been CE marked.

### Cassette Holders

This rugged, heavy-duty cassette holder features a counterbalanced cassette arm for easy vertical adjustment. The device tilts the cassette 180° and rotates the cassette 360°. Locking casters are included.



Cassette Holder with 26" (66cm) Extension Arm	MTH30326
Cassette Holder with 36" (91.4cm) Extension Arm	MTH30336

### Incontinence Clamps



Cunningham Clamp, Regular	MTVIPU414R
Cunningham Clamp, Large	MTVIPU414L
Zipser Clamp	MTVIPU413

These products have not been CE marked.

### Lead Sheet

Lead Sheet, 30 x 30cm, 1mm thick	MTLS301
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This product has not been CE marked.

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# Ordering Information for U.S. Markets

## Placing an Order

Toll-free within the U.S. and Canada: 800-842-8688  
 Direct Dial: 712-737-8688  
 Facsimile: 712-737-8654  
 E-mail: radiation.oncology@zivco.com

## Office Hours

Monday-Thursday, 7:30 a.m. - 5:00 p.m., Central Standard Time.  
 Friday, 7:30 a.m. - 4 p.m., Central Standard Time.  
 To place an order after business hours, leave a voice mail telephone message, and a customer representative will notify you on the next working day for order verification.

## Payment Terms

Net 30 days for customers with approved credit inside the United States and Canada. All orders must be paid in U.S. dollars. Orders from outside the U.S. require advance remittance by wire transfer. Visa, Mastercard, Discover and American Express are accepted. Alternate International payment terms are considered upon request. Delinquent accounts are subject to suspension until payment arrangements are made.

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F.O.B. point of origin. Freight is prepaid and added to the invoice. CIVCO will select the most efficient method of shipment, unless a specific carrier is requested. Overnight and rush shipments are provided for an additional fee.

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Prices are subject to change without notice. Quantity discounts and blanket order pricing are available. Contact a customer service specialist for details. A \$50 minimum purchase is required with each order.

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Free non-sterile samples are available on selected products. Samples are provided for sizing and fit purposes only and should not be used in clinical procedures.

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Reusable products. CIVCO warrants products manufactured by CIVCO and intended to be reusable shall be free from defects in materials and workmanship for 12 months from the date of invoice by CIVCO unless otherwise stated on the product labeling and/or instructions.

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## Quality Standards

CIVCO is registered to ISO 13485:2003 Quality Standards.

**Note: Not all products listed are available in every market. Please contact your account representative or local distributor for availability.**

**For ordering information in other markets, please contact your nearest CIVCO office.**

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