

IMRT Delivery or Conventional Compensation Integrated Beam Modulation Workstation

Designed for treatment planning, our Beam Modulation Workstation links our Compu-cutter™ III and Compu-former™ systems for quick, precise block cutting and compensator milling accurate to ± 1 mm.

User-friendly, Windows® based software eliminates redundant data acquisition to streamline programming functions, saving the time and expense of hand digitizing.

Radiotherapy teams worldwide have come to depend on Huestis Medical for quality and cost-effective radiotherapy products. Both the Compu-former™ and Compu-cutter™ III are FDA registered and CE certified.

Features:

Block Cutting Accuracy

- Computerized, four-axis cutter ensures accuracy of ± 1 mm.
- Built-in checks minimize operator error and time consuming re-cuts.
- Allows review of outline on monitor.
- Drawing package feature allows for easy image manipulation and correction.
- Cut path simulation prior to actual block cut.
- All functions and set ups are completely computer controlled.
- Radiograph printout verifies tracing.
- Template printout facilitates mounting shielding block on tray.

Treatment Planning Interfaces

- Digitized block outlines can be easily transferred from treatment planning.
- Eliminates redundant input of block outlines from radiographs.
- Imported outlines may be cut immediately or stored for later use.

Compensator Milling Versatility

- Milling can be done remotely, at any time, freeing valuable treatment space.
- Uses pre-cut, 10 in x 10 in x 2 in foam blocks (25.4 cm x 25.4 cm x 5.1 cm).
- Produces compensators up to approximately 22 cm (8.7 in) square.
- Changes for reduction ratio and treatment geometry are programmed into the procedure.
- Built-in vacuum removes foam chips.

- User definable compensating material.
- A stainless steel powder, gypsum and water mixture is recommended.
- This easy-to-use mixture is readily available from Huestis Medical.

Hot Wire Cutting

- Image can be moved to any position on the block to allow for the conservation of styrofoam use.
- Fast .45 in/sec. (1 cm/sec.) cut speed.
- Cutter is safely enclosed in cutting bay.
- Adjustable temperature for variations in foam densities.
- Safety interlock for open door position.
- Custom defaults: S.F.D., S.A.D., S.T.D.
- Distance changes can be factored in after digitizing or TPS import.
- Determines smallest block required for shape or combination of shapes.

Compensator Accuracy

- Compu-former™, three-axis.
- CNC milling system offers ± 1 mm accuracy.
- Cuts offset registration holes in foam block to ensure proper orientation of the compensator on tray.
- Produces repeatable, accurate, and fast cuts for unmatched effectiveness.

Uniform Radiation Dosage

- Beam compensation milling machine creates a compensating filter mold.
- Provides radiation beam attenuation to "compensate" for inhomogeneity.
- Helps deliver uniform radiation dosage over the entire treatment field.



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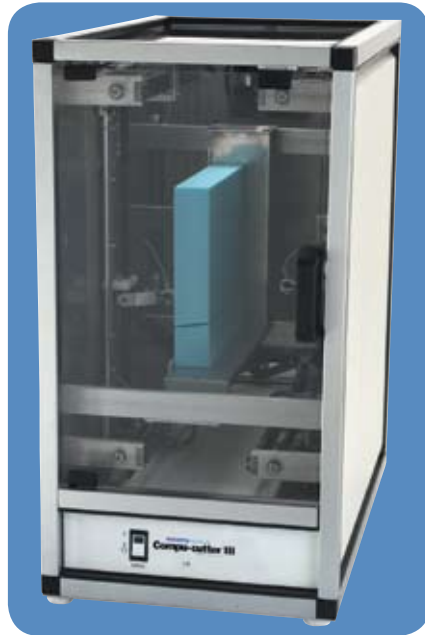
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Beam Modulation Workstation Radiotherapy Versatility

Huestis Medical's Beam Modulation Workstation harnesses the speed and accuracy of our Compu-cutter® III and Compu-former® systems to produce radiotherapy shielding blocks or beam compensation molds with ± 1 mm accuracy. Windows® based, our operator friendly software interfaces with treatment planning systems for quick, block cutting or beam compensation.



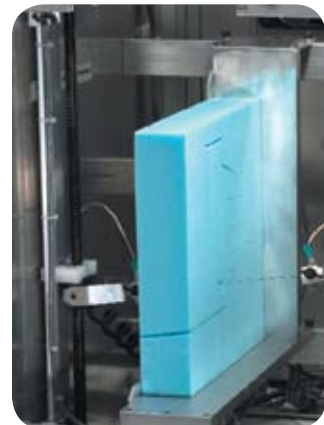
Modular Design

Designed for versatility, our stand-alone cutting bay may be used with your own digitizer, through treatment planning, or supplied as a fully integrated system.



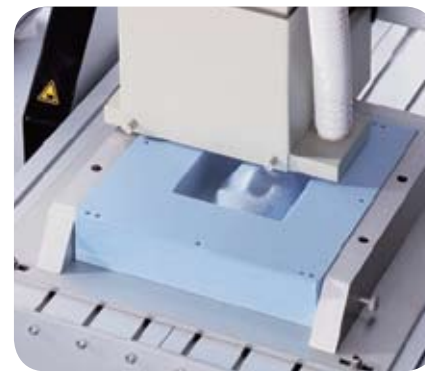
Compu-former Beam Compensator System

Compu-former® is proven to help deliver uniform radiation dosage over an entire treatment area. ACNC router mills a mold used to create a beam compensator filter.



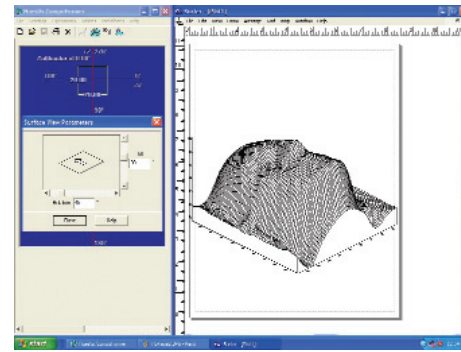
Extremely Accurate

Fully articulating and gimbaled cutting mechanism is accurate ± 1 mm at the block tray level for precise, divergent cuts.



High Resolution

The computerized compensator milling machine mills using a three-axes gantry to ensure cutting accuracy with high resolution. Milling can be done quickly, remotely, and at any time.



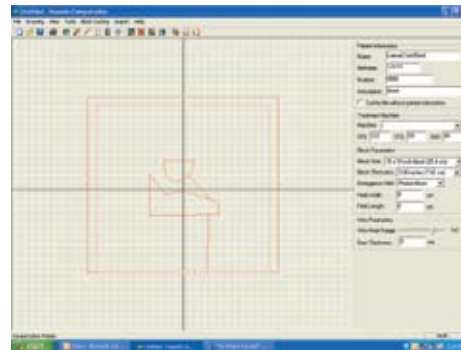
Treatment Planning Interface

Files are easily transferred from treatment planning interfaces. Treatment planning file conversion is built in to each Compu-former® to ensure seamless integration.



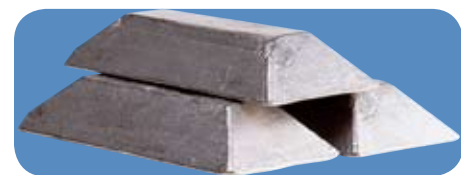
Treatment Parameters

The Compu-former® Windows® based custom software is easy to use with minimal training. It allows for easy verification of the compensator parameters prior to milling.



User friendly

Characteristics include Windows® compatibility, allowing for easy image manipulation, correction and cutting.



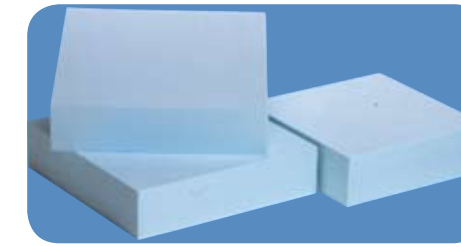
Shielding Alloy

Ask about alloy, blocks and other accessories. Our #158 and #203 shielding alloy is offered alone or as part of a complete "Starter Kit".



Compensating Material

Our water soluble, stainless steel powder/gypsum mixture helps ensure accuracy by reducing voids in thin compensator sections.



Foam Blocks

Our medium density, fine grain structure foam blocks have a smooth finish for easy release. Offered in common sizes and thicknesses.

BEAM MODULATION WORKSTATION

SHIELDING ALLOY

Alloy Model	Alloy Type	Melting Temp	Weight/ Cubic in	Bismuth	Lead	Tin	Cadmium
SF-355 (50 lbs)	#158	158° F	.339 lbs	50.0%	26.7 %	13.3%	10.0%
SF-670 (50 lbs)	#203	203° F	.355 lbs	52.5%	32.0%	15.5%	00.0%

MODELS

System Model	Radiograph Digitizer	Computer w/Monitor	Printer	Integrated Systems	Machine Width	Machine Depth	Machine Height
BMW-2000* Linked System	N/A (optional)	Included (shared)	Included (remote)	CC3-1000A TC-5002 LT	N/A (see below)	N/A (see below)	N/A (see below)
BMW-2001 Linked System	Included (remote)	Included (shared)	Included (remote)	CC3-1000 A TC-5002 LT	N/A (see below)	N/A (see below)	N/A (see below)
CC3-1002 Compu-cutter	N/A (optional)	Included (remote)	Included (remote)	N/A	15.75 in (40 cm)	30 in (76.2 cm)	30 in (76.2 cm)
TC-5002 LT Compu-former	N/A	Included (remote)	Included N/A	N/A	34.0 in (86.4 cm)	34 in (86.4 cm)	52.0 in (132.1 cm)

FOAM BLOCKS

Foam Model	Foam Model	Pieces Per Case
SFB102	10 in x 10 in x 2 in (25.4 cm x 25.4 cm x 5.1 cm)	35
SFB083	8 in x 8 in x 3 in (20.3 cm x 20.3 cm x 20.3 cm)	52
SFB103	10 in x 10 in x 3 in (25.4 cm x 25.4 cm x 7.6 cm)	26
SFB123	12 in x 12 in x 3 in (30.5 cm x 30.5 cm x 7.6 cm)	18
SFB084	8 in x 8 in x 4 in (20.3 cm x 20.3 cm x 10.2 cm)	36
SFB104	10 in x 10 in x 4 in (25.4 cm x 25.4 cm x 10.2 cm)	18
SFB124	12 in x 12 in x 4 in (30.4 cm x 30.4 cm x 10.2 cm)	15

*BMW-2000 is supplied without digitizer and is for exclusive treatment planning system use only. Electrical requirements (all cutters): 120 VAC, 60 Hz., 10A (Optional 220 VAC, 50 Hz, 5A). Ask about our "Mold Room Kits" including hot plate with rheostat, stainless pitcher, cooling tray, alloy #158, foam blocks, masking tape, lexan trays, thermometer, and mold release.

HUESTISMEDICAL
making it affordable™

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