Portalcast® Block Cutting and Casting System

Quickly cut and cast a precision mold and mount the casting to a blocking tray.
Portalcast® Block Cutting and Casting System

Hundreds of radiation therapy departments count on the Diacor® Portalcast® block cutting and casting system to create casting molds and custom blocks for their patients. This turnkey system includes the compact block cutter and workstation that easily fits in most work areas. We also include the necessary equipment to construct molds and prepare and pour custom blocks for therapy. Thanks to its consistency, precision and ease-of-use, the Portalcast system remains a key asset for radiation oncologists worldwide.

The Portalcast system is available in a variety of laminate colors, so you can customize your system to match the color scheme of your facility.
Workstation

The Portalcast workstation provides a compact and efficient workspace to cool casting molds and mount custom blocks to trays. A built-in vacuum cleaner makes it easy to maintain a clean workspace. Steel-lined compartments are available to house recycled blocks and new Cerrobend. And large drawers and storage cabinets allow you to warehouse Styrofoam blocks and other items.

Benefits

• Easily drill holes in plastic trays for block mounting
• Quickly cool blocks on the refrigerated cold plate
• Pour molds from either side of the cooling station
• Eliminate leakage by clamping the molds against the cooling surface using two hydraulic presses
• Make thin-block compensators with the horizontal cutting-wire and adjustable ramp

Width: 55.5" (140.97 cm)
Height: 94" (238.76 cm)
Depth: 26" (66.04 cm)
Block Cutter

The Portalcast block cutter allows therapists or technicians to precisely reproduce the desired film shape and block-to-beam-axis orientation. The cutter uses a set of fixed-size Styrofoam blanks that perfectly fit in the cutter’s holding tray. This eliminates the need to line up holes on the Styrofoam-to-tray marks or align crosshairs from the cut Styrofoam to crosshairs marked on the tray. The system includes a set of reference frames that ensure accurate alignment as blocks are mounted to acrylic or polycarbonate trays.

Benefits

• Easily adjust source-to-film (155 cm max) and source-to-tray (49-95 cm) distances using two counter weights
• Quickly match the center of the block to the center of the light table
• Accommodate different source-to-tray and source-to-film distances using the adjustable C-arm
• Confirm block has been cut correctly through source-simulating light
• Quality-assurance device assures you that the wire is centered in the Styrofoam holder and coincides with the crosshairs of the X-ray on the light table

Width: 33.25” (84.45 cm)
Height: 94.5” (240.03 cm)
Depth: 26” (66.04 cm)
Accessories

We’ve designed two accessories that are ideal for transferring and storing blocking trays: our blocking tray cart and customizable storage cabinets.

Blocking Tray Cart
Diacor blocking tray carts make transferring blocking trays between the treatment and mold rooms easy. Storage areas at both ends of the cart allow patient X-rays to be conveniently and securely held while moving.

Features
• Supports several hundred pounds of custom blocking trays  
• Includes six slanted stainless-steel shelves  
• Features brakes and forward-direction wheel locks

Blocking Tray Storage Cabinets
Our high-quality and durable blocking tray storage cabinets are available in a variety of configurations, allowing you to choose a cabinet that meets your department’s unique needs. Diacor recommends that cabinets are permanently attached to a wall during installation.

Features
• Covered with durable standard-grade laminate  
• Available in seven sizes and configurations  
• Customized color and shelf sizes are available

Width: 38" (96.52 cm)  
Height 37" (93.98 cm)  
Depth: 25" (63.5 cm)

Small shelf:
Width: 12.5” (31.75 cm)  
Height: 5” (12.7 cm)  
Depth: 12.5” (31.75 cm)

Large shelf:
Width: 12.5” (31.75 cm)  
Height: 13” (12.7 cm)  
Depth: 12.5” (31.75 cm)

Learn more by calling (800) 342-2679 or (801) 467-0050.
A History of Innovation

Diacor manufactures proven solutions for critical care. For more than twenty years we’ve offered innovative products that are used in radiation therapy departments throughout the world. In addition to the Portalcast block cutting and casting system, we offer patient positioning systems that enable you to accurately establish and reproduce patient positions in radiation therapy. We also offer fixed and moving patient alignment lasers that provide flexibility in a variety of treatment settings. All products are manufactured under a registered ISO 9001:2000 quality management system.