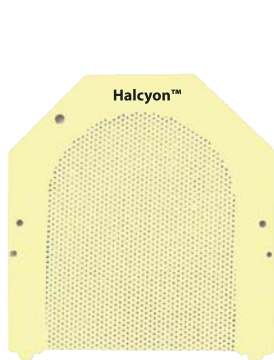


# Halcyon™ Thermoplastic Head and Neck Patient Immobilization Products

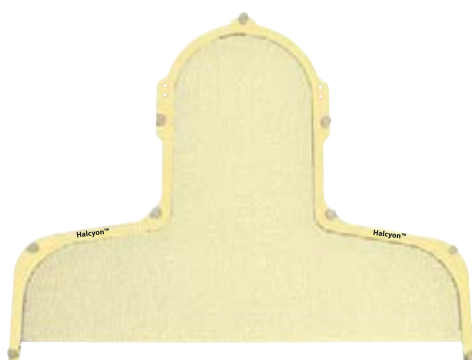
U-frames with perforated thermoplastics



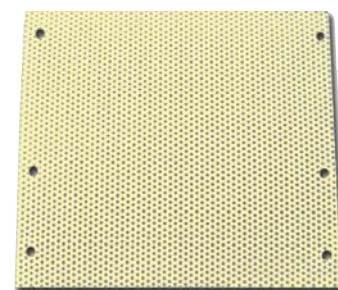
Radiation Oncology



Halcyon U-Frame



Halcyon Profile



Halcyon Pre-cut Sheets

## Introduction

The Halcyon U-Frames are preloaded with the Halcyon perforated thermoplastic for user convenience and patient comfort. These head holders are used with the Halcyon Carbon Fiber Tilting Head Board and will fit most other manufacturers head-only boards.

The Halcyon Profile is a head and neck frame for the Halcyon Profile Board and also fits most competitive “S-frame” style boards. It is disposable and is designed especially for IMRT applications.

## Applications

These products are designed for any radiation therapy application requiring precise repeatable patient localization, specifically IMRT.

## Specifications, thermoplastic

**Water temperature** 160° to 175°F (70° to 78°C)

**Shrinkage** 2%, approximately

**Available thicknesses** 2.4 and 3.2 mm

## Features

- **Preloaded disposable frames** – efficient and convenient
- **Profile** – designed to hold the entire upper body in position. Meets the increased requirements for IMRT
- **Low melting point** – comfort for the patient and the technologist
- **Perforations** – non-claustrophobic for the patient. Designed to control the shrinkage providing a comfortable and firm hold on the patient
- **Duplicate patient ID tags and lot numbers on each frame** – removable portion of the ID tag may be placed in the patient chart for error free tracking. Lot number provides trace ability in the event of a materials question

### Optional accessories

- 39-505** Halcyon MOLDCARE® IMRT Head Cushion
- 39-501** Halcyon U-Frame Head Board, includes one Halcyon Disposable U-Frame, 3.2 mm, perforated
- 39-506** Halcyon Carbon Fiber Tilting Head Board
- 39-507** Upgrade Kit to Halcyon Carbon Fiber Tilting Head Board (Model 39-506) to allow for cranial spinal axis treatment
- 39-495** Indexing Adapter to fixate Halcyon Carbon Fiber Tilting Head Board to Varian Exact® Couch
- 39-516** Halcyon Profile Head and Neck RT Immobilization Board (S-frame compatible)
- 39-494** Indexing Adapter to fixate Halcyon Profile Board to Varian Exact Couch
- 39-576** Halcyon Pellets, 1 lb bag
- 39-577** Halcyon Pellets, 3 lb tub
- 39-565** Halcyon Pre-Cut Strips, 3.2 mm, 1.5 x 24 inch, solid, package of 36
- 39-500** Halcyon Pan, stainless steel with hospital grade plug (inside 18 x 24 inch)
- 39-515** Unlimited Scissors

### Available model(s)

#### *Halcyon Disposable U-Frames*

- 39-556** 2.4 mm, perforated
- 39-557** 2.4 mm, perforated, extended 2.5 inch
- 39-569** 3.2 mm, perforated
- 39-570** 3.2 mm, perforated, extended 2.5 inch

#### *Halcyon Disposable Profile Frames*

- 39-578** 2.4 mm, perforated
- 39-579** 3.2 mm, perforated

#### *Halcyon Pre-Cut Sheets*

- 39-558** 2.4 mm, 9 x 10 inch, perforated
- 39-561** 2.4 mm, 9 x 12 inch, perforated
- 39-552** 2.4 mm, 18 x 24 inch, solid
- 39-560** 2.4 mm, 18 x 24 inch, perforated
- 39-555** 2.4 mm, 24 x 36 inch, solid
- 39-571** 3.2 mm, 9 x 10 inch, perforated
- 39-574** 3.2 mm, 9 x 12 inch, perforated
- 39-563** 3.2 mm, 18 x 24 inch, solid
- 39-573** 3.2 mm, 18 x 24 inch, perforated
- 39-566** 3.2 mm, 18 x 24 inch, less stretch, perforated

For additional information, please contact the Radiation Management Services business of Cardinal Health at 440.248.9300, fax 440.349.2307 or e-mail [rmsinfo@cardinal.com](mailto:rmsinfo@cardinal.com); located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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39-556-ds rev 1 17 aug 04

# Halcyon™ Carbon Fiber Tilting Head Board

Model 39-506



## Introduction

For one-step molding, positioning and indexing of Halcyon masks. This patented head and neck immobilization board is made of a new radiotranslucent material known as Xtrans. Xtrans is a composite material developed by Anholt Technologies using advanced carbon fiber technology. It provides minimum x-ray attenuation when used in radiology and radiation therapy. Unlike competitive products, the Halcyon line of boards are 100% nonmetallic.

## Applications

The tilting support arm allows adjustment from 0° to 30° in 2.5° increments, and can be folded down or removed when not in use. An optional 45° support arm is available. The board uses Halcyon disposable U-frames, and MOLDCARE® head supports. Quick release swivel locks allow emergency patient release. This board can also be used for prone treatment. Two disposable U-frames included with each board.

## Optional accessories

- 39-495** Indexing Adapter to fixate Halcyon Carbon Fiber Tilting Head Board to Varian Exact® Couch
- 39-576** Halcyon Pellets, 1 lb bag
- 39-577** Halcyon Pellets, 3 lb tub
- 39-565** Halcyon Pre-Cut Strips, 3.2 mm, 1.5 x 24 inch, solid, package of 36



Radiation Oncology

- **Tilting support arm allows adjustment from 0° to 30° in 2.5° increment and can also be used in the prone position**
- **Quick-release swivel locks allow for emergency patient release**
- **Can be upgraded to allow for cranial spinal axis treatment**
- **Folds flat for easy storage**

## Available model(s)

- 39-506** Halcyon Carbon Fiber Tilting Head Board
- 39-507** Upgrade Kit to Halcyon Carbon Fiber Tilting Head Board (Model 39-506) to allow for cranial spinal axis treatment

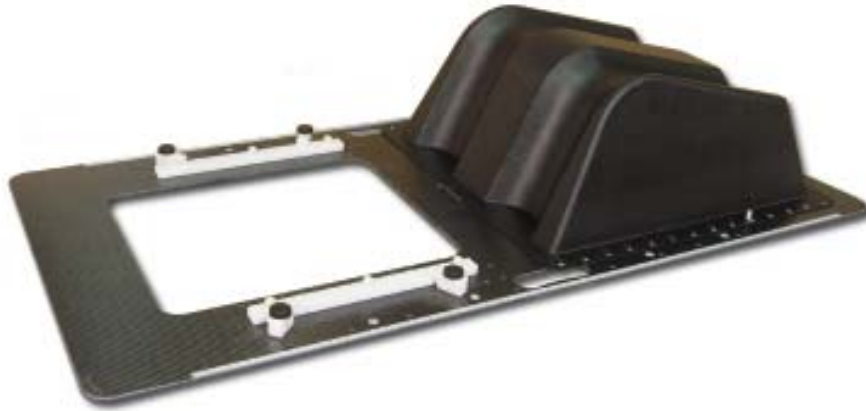
For additional information, please contact the Radiation Management Services business of Cardinal Health at 440.248.9300, fax 440.349.2307 or e-mail [rmsinfo@cardinal.com](mailto:rmsinfo@cardinal.com); located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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39-506-ds rev 1 17 aug 04

# Halcyon™ IMRT Carbon Fiber Pelvis System

Model 39-508



Radiation Oncology

- Included leg wedge flattens the lower lumbar for more comfortable and repeatable patient positioning
- Can be indexed or repeatedly mounted to most treatment, simulator, and CT tabletops
- Pelvis board can be used with a wide variety of Halcyon thermoplastic products

## Introduction

The Halcyon IMRT Carbon Fiber Pelvis System uses the widely popular leg wedge technique for easy and accurate pelvis target reproducibility. This system flattens the lower lumbar for more comfortable and repeatable patient positioning. The leg wedge can be indexed to the board at a variety of locations. Just like the rest of the Halcyon line, this board can be indexed or repeatedly mounted to most treatment, simulator and CT tops. The Halcyon pelvis system can be used with a wide variety of different shapes and sizes of Halcyon 6, 12, 18, 24 or 27 inch Opti-Handles, and include a left and right incremented millimeter scale for easy superior to inferior positioning of the patient.

## Halcyon Belt and Halcyon Brief

The Halcyon Belt technique uses a specially processed, narrow belt of controlled-shrinkage Halcyon thermoplastic, covering only the iliac crest. This leaves unrestricted access to the symphysis pubis area for an ultrasound probe, and for AP, LAO, and RAO fields. The Halcyon Belt keeps the patient in a reproducible center "X" position on the system, while the leg positioning wedge reproduces the "Y" and "Z" coordinates of the iliac crest. Therapists generally agree that the use of the legs for patient positioning of the pelvis is an easy, accurate and comfortable technique for IMRT and 3D CRT treatment of the prostate.

The Halcyon Brief technique uses a three point fixation system covering the pelvic region, but not the abdomen.

## Features

- Carbon fiber construction
- Extremely lightweight and durable
- Easily positioned and stored
- Very radiotranslucent. Little or no CT simulation artifacts
- Wide (24 inch) thermoplastic sheets for increased patient comfort

### Optional accessories

- 39-496** Indexing Adapter to fixate Halcyon IMRT Carbon Fiber Pelvis System to Varian Exact® Couch
- 39-565** Halcyon Pre-Cut Strips, 3.2 mm, 1.5 x 24 inch, solid, package of 36
- 39-500** Halcyon Pan, stainless steel with hospital grade plug (inside 18 x 24 inch)
- 39-515** Unlimited Scissors

### Available model(s)

- 39-508** Halcyon IMRT Carbon Fiber Pelvis System, includes board cut-out and integrated leg wedge

### *Halcyon Pre-Cut Sheets*

- 39-553** 2.4 mm, 18 x 24 inch, solid  
(pre-punched for Halcyon Pelvis Board on 18 inch side)
- 39-580** Brief, 2.4 mm, 24 x 24 inch, solid  
(pre-punched for Halcyon Pelvis Board on 24 inch side)
- 39-581** Brief, 2.4 mm, 24 x 27 inch, solid  
(pre-punched for Halcyon Pelvis Board on 27 inch side)
- 39-564** 3.2 mm, 18 x 24 inch, solid  
(pre-punched for Halcyon Pelvis Board on 18 inch side)
- 39-583** Belt, 3.2 mm, 6 x 24 inch, solid  
(pre-punched for Halcyon Pelvis Board on 6 inch side)
- 39-582** Brief, 3.2 mm, 12 x 24 inch, solid  
(pre-punched for Halcyon Pelvis Board on 12 inch side)
- 39-584** Brief, 3.2 mm, 18 x 24 inch, less stretch, perforated  
(pre-punched for Halcyon Pelvis Board on 18 inch side)
- 39-585** Brief, 3.2 mm, 18 x 24 inch, less stretch, perforated  
(pre-punched for Halcyon Pelvis Board on 24 inch side)

### *Halcyon Opti-Handles*

- 39-587** 6 inch, pair (for use with Halcyon Pelvis Board)
- 39-586** 12 inch, pair (for use with Halcyon Belt and Pelvis Board)
- 39-589** 18 inch, pair (for use with Halcyon Pelvis Board)
- 39-588** 24 inch, pair (for use with Halcyon Pelvis Board)
- 39-590** 27 inch, pair (for use with Halcyon Pelvis Board)

For additional information, please contact the Radiation Management Services business of Cardinal Health at 440.248.9300, fax 440.349.2307 or e-mail [rmsinfo@cardinal.com](mailto:rmsinfo@cardinal.com); located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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39-508-ds rev 1 17 aug 04

# Halcyon™ Carbon Fiber Breast Board

Model 39-517



Radiation Oncology

- Fully articulated arm supports provides accurate, comfortable positioning
- Carbon fiber construction assures artifact free CT simulation and little radiation back scatter
- Tennis racket feature further reduces the risk of scatter radiation

## Introduction

The robust angling mechanism of the Halcyon Carbon Fiber Breast Board provides precise patient positioning with no worry of collapse. It allows for indexed angulation of 1.25°, 5°, 7.5°, 10°, 15°, 20° and 25°. The board is CT compatible at up to a 10° angle on most scanners (25° on certain larger bore machines). Optional 30° and 35° angle wedges are also available.

## Optional accessories

**39-518** Arm Set for Halcyon Carbon Fiber Breast Board

**39-519** Arm Positioning Board - can be used by itself or with Halcyon Carbon Fiber Breast Board

**39-520** Bottom Stopper for Halcyon Carbon Fiber Breast Board

**39-498** Indexing Adapter to fixate Halcyon Carbon Fiber Breast Board to Varian Exact® Couch

## Available model(s)

**39-517** Halcyon Carbon Fiber Breast Board

For additional information, please contact the Radiation Management Services business of Cardinal Health at 440.248.9300, fax 440.349.2307 or e-mail [rmsinfo@cardinal.com](mailto:rmsinfo@cardinal.com); located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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# Halcyon™ MOLDCARE® IMRT Head Cushion

Model 39-505



Radiation Oncology

- **MOLDCARE provides a perfect fit for patient head and neck support**
- **MOLDCARE can be used to augment other head and neck support systems**
- **MOLDCARE is disposable, removing the need for cleaning or sterilizing**

## Introduction

The Halcyon MOLDCARE IMRT Head Cushion is a customized head support composed of a soft fabric containing expanded polystyrene beads that are coated in a moisture-cured polyurethane resin. When activated with water, the pillow becomes rigid, conforming to the contours of the patient's head.

## Applications

### *Easy to use*

1. Remove Halcyon MOLDCARE IMRT Head Cushion from package.
2. Fill included spray bottle with room temperature or lukewarm water (up to 40°C/105°F).
3. Push spray bottle nozzle slightly against the cushion and spray a shot of water into the cushion. Repeat approximately 12 times every 10 cm to ensure uniform dampening.
4. Place Halcyon MOLDCARE IMRT Head Cushion over head support.
5. Place patient's head on cushion, ensuring frame clears cushion, and form as desired.
6. Wait 5 to 10 minutes until pillow sets (once patient exits cushion, cushion continues the hardening process for another 10 minutes).

## Available model(s)

**39-505** Halcyon MOLDCARE IMRT Head Cushion

For additional information, please contact the Radiation Management Services business of Cardinal Health at 440.248.9300, fax 440.349.2307 or e-mail [rmsinfo@cardinal.com](mailto:rmsinfo@cardinal.com); located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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39-505-ds rev 1 04 aug 04



[www.cardinal.com/rms](http://www.cardinal.com/rms)



# Mold-and-Hold

## Model 17-5 Series

ON

Radiation Oncology

### Introduction

Mold-and-Hold was developed to meet the requirements of the radiation oncology and imaging departments. Designed as a highly reliable system of patient fixation for radiotherapy, Mold-and-Hold is ideal for patient immobilization and positioning in radiation therapy and all forms of diagnostic imaging, including CT, MRI, ultrasound, x-ray and nuclear medicine. Mold-and-Hold cushions will hold a patient comfortably and securely throughout the course of any treatment where the patient has to be immobile during prolonged or multiple exposures, and during radionuclide scans.



- A versatile and cost-effective system designed to aid in patient positioning and immobilization during radiation therapy treatments
- Ideal for use in Radiation Therapy, Radiology, MRI, CT, Ultrasound, and Nuclear Medicine
- Radiolucent; will not create artifacts or shadows
- Does not require mold rooms with special ventilation
- Repositioning during simulation or treatment can be made quickly
- Compatible with other fixation vacuums
- Does not need to be remolded during the treatment cycle

### Applications

The Mold-and-Hold cushions are made of special, double-sealed, non-tinted, durable plastic sheeting filled with radiolucent polystyrene spheres. This design allows Mold-and-Hold to be precisely molded to the patient's body contours. These reusable airtight cushions will hold their shape for more than 60 days, so there is no need to remold the cushion during the course of treatment. The cushions are almost air-equivalent and will only increase the buildup effect by a few percent.

The Mold-and-Hold System is comfortable for the patient, easy to work with, and consists of only a few components. Mold-and-Hold is designed so that repositioning during simulation or treatment can be easily made in minutes. When a patient has completed their course of therapy, air is allowed back into the cushion, which may now be cleaned and stored, ready for the next use.



### Mold-and-Hold components

- **Cushions**  
Mold-and-Hold cushions come in a variety of shapes, sizes, and degree of filling
- **Patient jig**  
Designed for general fixation and for making shells ready for simulator or accelerator
- **Molding sheet**  
Made of heavy, flexible plastic, this sheet is necessary to prevent the Mold-and-Hold cushion from getting trapped and damaged between the base and the sides of the patient jig



## Specifications

### Available model(s)

Model	Application	Size	Liter fill†
17-518-6500	Pelvis	150 x 100 cm	65
17-518-7000	Pelvis	150 x 100 cm	70*
17-518-7500	Pelvis	150 x 100 cm	75
17-519-3500	Thorax	100 x 100 cm	35
17-519-4000	Thorax	100 x 100 cm	40*
17-519-4500	Thorax	100 x 100 cm	45
17-519-5000	Thorax	100 x 100 cm	50
17-520-2000	General purpose head, neck, extremities	100 x 50 cm	20
17-521-2500	Breast	100 x 70 cm	25
17-521-3000	Breast	100 x 70 cm	30*
17-521-3500	Breast	100 x 70 cm	35
17-521-4000	Breast	100 x 70 cm	40
17-522-9650	Small standard	100 x 25 cm	6.5*
17-522-9750	Small standard	100 x 25 cm	7.5
17-523-9175	Small standard	50 x 25 cm	1.75
17-523-9200	Small standard	50 x 25 cm	2*
17-523-9225	Small standard	50 x 25 cm	2.25
17-524-1200	Small standard	70 x 60 cm	12
17-524-1250	Small standard	70 x 50 cm	12.5
17-524-1500	Small standard	70 x 50 cm	15
17-525-1500	Head/neck region	S1	15
17-525-1750	Head/neck region	S1	17.5*
17-525-2000	Head/neck region	S1	20
17-525-2500	Head/neck region	S1	25
17-526-9300	Brain tumors	S2	3
17-526-9400	Brain tumors	S2	4
17-526-9500	Brain tumors	S2	5
17-526-9600	Brain tumors	S2	6
17-527-2250	Laryngeal/esophageal/upper thoracic cancers	S3	22.5*
17-527-2500	Brain tumors	S3	25
17-527-3000	Brain tumors	S3	30
17-528-5000	Breast cancer	S4	50

† The heavier the patient, the higher the degree of filling required.

\* Suggested liters for first order.

### Optional accessories

Model	Description
17-502	Vacuum Pump
17-504	Air Hose Assembly (for use with hospital central vacuum system)
17-507	Cushion Repair Kit
17-508-1000	Patient Jig with Straight Sides, includes one set of Magnets for "Window"
17-508-2000	Patient Jig with Curved Sides, for CT scanning

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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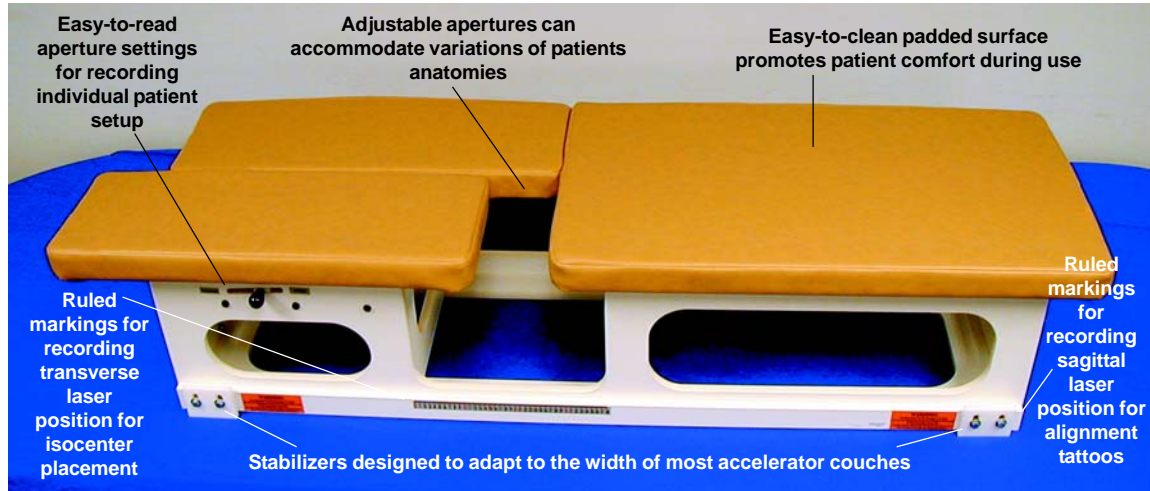
17-5-ds rev 1 27 mar 03

# Prone Breast Positioning Device\*

## Model 37-018

ON

Radiation Oncology



## Introduction

The Prone Breast Positioning Device (Model 37-018) is an innovative linear accelerator couch-mounted platform for breast irradiation, designed specifically to facilitate the administration of safe, effective radiation therapy to women with large or pendulous breasts, who have breast cancer and who opt for breast-conserving therapy.

## Applications

### Clinical advantages:

#### *Easy treatment of women with large or pendulous breasts*

- Facilitates breast conserving therapy
- Improves reproducibility of treatment setup

#### *Allows heart and lungs to be avoided*

- Important for women with pre-existing cardiac and pulmonary conditions
- Reduces the chance of long-term effects on heart and lungs

#### *Significantly reduces skin reaction through improved dose homogeneity*

- Treatment breaks are less likely, due to improved skin tolerance
- Allows treatment to be given in a continuous course, which is oncologically preferable
- May facilitate simultaneous administration of chemotherapy in some women
- May allow patients with connective tissue disorders to receive treatment

#### *Simplifies breast boosts by making photon treatment possible*

- Eliminates the need for electron capability when treating breast patients
- Skin-sparing boost treatment (photons) decreases skin reactions

### Dosimetric advantages:

#### *Minimizes radiation scatter to the contralateral (opposite) breast*

- The opposite breast can be moved away from the field edge, using a styrofoam bridge/wedge

#### *Beam modifiers (wedges) may not be required to improve homogeneity*

- Reduces the complexity of treatment
- Minimizes "hot spots" in the treated breast
- Minimizes internal scatter to the heart and lungs

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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37-018-ds rev 1 11 mar 03

## Specifications

### Dimensions (in the closed position)

23 (w) x 72 (d) x 16 in (h) (58 x 183 x 41 cm)

Weight 80 lb (36.36 kg)

### Optional accessories

Immobilization Positioning Cushion (Model 37-018-3000)

Foam Wedges (Model 37-018-4000), set of 2

### Available model(s)

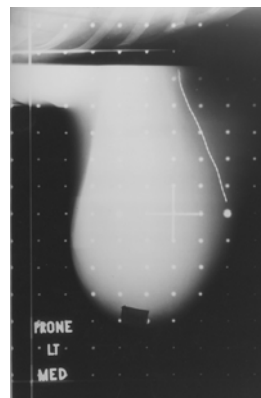
37-018 Prone Breast Positioning Device

### Free clinical study reprint available

1. T.E. Merchant and B. McCormick, "Prone Position Breast Irradiation," *International Journal of Radiation Oncology Biology Physics*, 30:1 (1994), 197-203. Request Reprint No. 544B.

### References

1. S. Bieri, M. Russo, M. Rouzaud, and J.M. Kurtz, "Influence of Modifications in Breast Irradiation Technique on Dose Outside the treatment volume," *International Journal of Radiation Oncology Biology Physics*, 38:1 (April 1997), 117-125.
2. B.A. Frass, P.L. Roberson, and A.S. Lichter, "Dose to the Contralateral Breast Due to Primary Breast Irradiation," *International Journal of Radiation Oncology Biology Physics*, 11 (1985), 485-497.
3. P.L. Roberson, A.S. Lichter, A. Bodner, H.A. Fredrickson, T.N. Padikal, B.A. Kelly, and J. van de Geijn, "Dose to Lung in Primary Irradiation," *International Journal of Radiation Oncology Biology Physics*, 9 (1982), 97-102.



Simulator film of pendulous breast demonstrates the inclusion of all breast tissue and the exclusion of the chest wall

\* US Patent No. 5,564,438.

# Tungsten Eye Shields

## Model 37-936 Series

- For electron or superficial shielding
- Less transmission than other eye shields
- Reduces electron backscatter to eyelid

Diagram 1

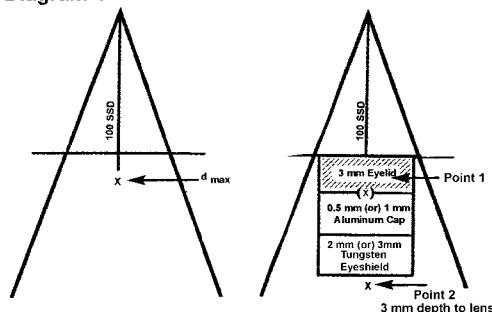
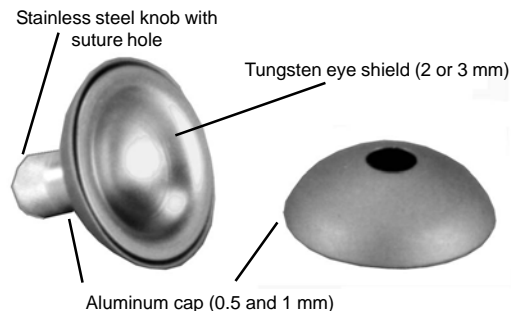


Diagram 1. The doses are normalized to  $d_{max}$  without the eye shield (Diagram 1) using a 10 x 10 cone. When 100% is delivered to  $d_{max}$  using 6 MeV with the shield, you get 108% to the undersurface of the eyelid (Point 1) and 3.4% to lens (Point 2) (see table)

### Introduction

The Tungsten Eye Shield can use either the 0.5 or 1 mm thick anodized aluminum cap (both are included with each tungsten eye shield) to reduce the electron backscatter to the eyelid. The eye shield can be used without the aluminum cap when placed superficially.

Tungsten eye shields have less transmission than other eye shields.



### Recommendations based on transmission values

The 2 mm tungsten eye shield should be used for 6 MeV, and the 3 mm tungsten eye shield should be used for 9 MeV. **These tungsten<sup>1</sup> eye shields are not recommended for use above 9 MeV.**

The user will have to determine an acceptable amount of backscatter to decide whether to use 0.5 or 1 mm aluminum cap. Use diagram and table.

### Sterilization

Clean with soap and water, rinse thoroughly with water as soap residue will burn the eye. Gas or Autoclave, separate caps and shield before sterilization. Follow cleaning directions carefully to preserve the tungsten eye shields.

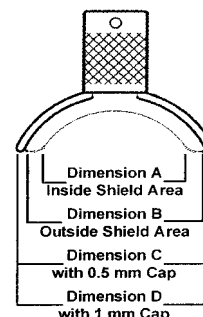
### Specifications

**Tungsten density** 17 g/cm<sup>3</sup>

**Aluminum density** 2.718 g/cm<sup>3</sup>

#### Reference

- Evaluation of Eye Shields made of Tungsten and Aluminum in High-Energy Electron Beam by Randi D. Weaver B.S. Fairview - University Med. Ctr. PO Box 494, 420 Delaware St. SE, Mpls., MN 55455 Int. J. Radiation Oncology Biol. Phys. Vol. 41 Nal, pp 233-237-1998.



For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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37-936-ds rev 1 11 mar 03

Transmission using XV-2 film*		Backscatter using TLDs <sup>†</sup>		
6 MeV	9 MeV	6 MeV	9 MeV	
3.4%	5.6%	108%	111%	2 mm Tungsten
3.0%	4.8%	103%	106%	2 mm Tungsten + 0.5 mm Aluminum
3.0%	4.4%	95%	102%	2 mm Tungsten + 1 mm Aluminum
2.5%	3.3%	112%	113%	3 mm Tungsten
2.4%	2.9%	102%	105%	3 mm Tungsten + 0.5 mm Aluminum
2.5%	2.8%	97%	106%	3 mm Tungsten + 1 mm Aluminum

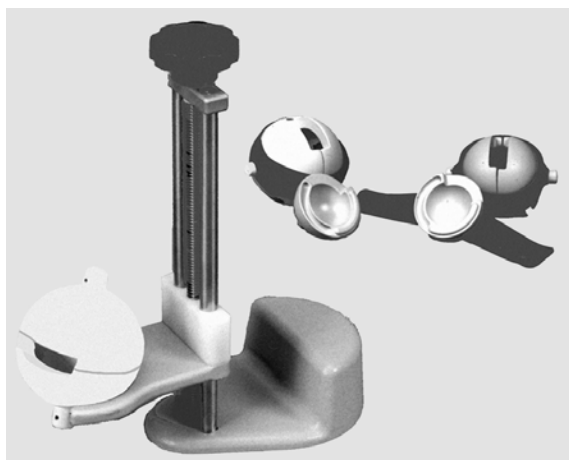
\* XV-2 Film placed under/below tungsten eye shield at 3 mm depth (anterior surface of lens).  
<sup>†</sup> TLD Microcubes placed under simulated eye lid using tungsten eye shields.

Model*	Thickness (mm)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
37-936-0583	2	11.6	15.7	17.8	18.8
37-936-0585	2	13.3	17.4	19.5	20.5
37-936-0587	2	15.0	19.1	21.1	22.1
37-936-0589	2	16.7	20.8	22.9	23.9
37-936-0591	2	18.4	22.5	24.6	25.6
37-936-0596	3	11.0	17.4	19.5	20.5
37-936-0598	3	12.7	19.1	21.2	22.2
37-936-0601	3	14.4	20.8	22.9	23.9
37-936-0623	3	16.1	22.5	24.6	25.6
37-936-0627	3	17.8	24.2	26.3	27.3

\* Always consult the Radiation Physicists when using eyeshields in electrons. Please refer to the following paper: Field Shaping in Electron Beam Therapy by F.M. Khan, Ph.D., Oct. 1976, British Journal of Radiology.

# Round Testicle Shields and Adjustable Testicle Shield Stand

## Model 37-937 Series



- Shield interlock prevents radiation leakage and holds alignment
- 0.5 inch (1.27 cm) lead wall thickness
- An open sector is provided in each shield to allow comfortable positioning on the patient
- Lugs cast into each half of the shield unit provide anchor points for the two rubber straps used to hold the unit together
- All surfaces of the shields are coated with a tan polyurethane paint

The lead testicle shields are designed with a dome and groove interlock to eliminate radiation leakage where the top and bottom half blocks are joined together and to prevent the halves from sliding apart. The shield's top and bottom halves can be secured together with two rubber straps (supplied with each unit) or with nylon tape. Rotating the entrance of the shield toward the ceiling will reduce scatter radiation from entering the shield. A soft cotton sock can be used to cover the testicles when placing them inside a cold shield. The testicle shield is available in three sizes: small, medium, and large. When using the Adjustable Shield Stand, no straps are needed.

This easily Adjustable Testicle Shield Stand will cradle all round testicle shields. A hand knob allows for easy vertical adjustment from 1 to 10 inch (five turns per inch). The counter weighted base is made of cast iron. A plastic plate, secured to the base, provides easy positioning. The unit can be used for anterior and posterior treatments.

It is recommended that the Adjustable Testicle Shield Stand be used while raising and lowering the testicle shields, as this will reduce patient discomfort.

### Specifications

#### Small (Model 37-937-0200)

**Size** 2 in ID x 3 in OD (5 x 7.6 cm)

**Weight** 4 lb (1.6 kg)

#### Medium (Model 37-937-0250)

**Size** 2.5 in ID x 3.5 in OD (6.4 x 9 cm)

**Weight** 5.7 lb (2.6 kg)

#### Large (Model 37-937-0300)

**Size** 3 in ID x 4 in OD (7.6 x 10.2 cm)

**Weight** 7.25 lb (3.3 kg)

#### Stand (Model 37-937-0505)

**Size** 5 (w) x 10 (d) x 13.5 in (h) (12.7 x 25.4 x 34.3 cm)

**Weight** 10.6 lb (4.8 kg)

#### Available model(s)

**37-937-0200** Testicle Shield, Small Round, 2 inch ID

**37-937-0250** Testicle Shield, Medium Round, 2.5 inch ID

**37-937-0300** Testicle Shield, Large Round, 3 inch ID

**37-937-0500** Testicle Shields, Set of 3, Small, Medium, and Large

**37-937-0505** Adjustable Stand for Round Testicle Shields

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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# Oncology Skin Care Products

## Nuclear Associates Models 37-06 Series

- Excellent patient acceptance
- Ingredients that do not interfere with ongoing radiation therapy treatments
- Alra® is patient preferred



### Alra® Radiation Therapy Lotion

- Provides quick, reliable relief from acute radiation dermatitis
- Nonirritating, non-allergenic
- Does not interfere with ongoing treatment

Alra Radiation Therapy Lotion from Nuclear Associates is the only lotion specifically developed for the treatment of skin exposed to radiation therapy. It contains a highly concentrated emulsion of aloe vera gel, lanolin, vitamin E, soluble collagen, and allantoin. It does not contain water, glycerin, mineral oil, alcohol or added fragrance.

In patient studies conducted at the Cedars-Sinai Comprehensive Cancer Center in Los Angeles, none of the patients treated with Alra Radiation Therapy Lotion showed irritation or allergic reactions.

This soothing lotion aids in the replacement of damaged tissue, helping the natural healing process to take place.

#### Available model(s)

**37-064** Alra Radiation Therapy Lotion, 4 oz bottle. Quantities 1 to 11; 12 or more

**37-064-1000** Alra Radiation Therapy Lotion, 1 oz bottle. Quantities 1 to 11; 12 or more

*"I recently received radiation therapy to the face and neck area, and found that your product was the only lotion that soothed my skin that was damaged by the radiation rays."*

— G.L.S., Clinton, Maryland

### Alra® Non-Metallic Deodorant

- Free of metallic ingredients that can interfere with radiation therapy treatments

Alra Non-Metallic Deodorant from Nuclear Associates is specifically formulated to eliminate perspiration odor and wetness without the use of metallic ingredients that may interfere with treatments. This gentle, nonirritating deodorant contains oil of cypress, a clean-smelling natural fragrance that both male and female patients like, and lichen extract, a natural bactericide and fungicide.

#### Available model(s)

**37-066** Alra Non-Metallic Deodorant, 2.5 oz stick. Quantities 1 to 11; 12 or more



### Alra® Mild Conditioning Shampoo

- Minimizes hair damage while cleansing and conditioning the hair and scalp

Oncology therapy can cause normal hair to become extremely dry and brittle, and the scalp to be very sensitive. While no shampoo can prevent hair loss caused by some chemotherapy drugs, Alra Mild Conditioning Shampoo from Nuclear Associates is an extra-gentle formula that is acid-balanced and specially-formulated to minimize hair damage.

Ingredients include: aloe vera gel, panthenol (provitamin B-5), and aromatic oil of rosemary, to stimulate scalp circulation.

#### Available model(s)

**37-065** Alra Mild Conditioning Shampoo, 8 oz bottle. Quantities 1 to 11; 12 or more



For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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