

**RADIAN HEALTH CARE**

**"YOU CARE THEM WE CARE YOU"**



**REACH US**

***support@radianhealthcare.com***  
***qadept@radianhealthcare.com***

***+91 73373 27126 , 7337338313 , 7337338314***  
***7337338315 , 7337338316 , +914023556462***

***RADIAN HEALTH CARE INDIA***  
***8-2-310/3A/5 , ROAD NO:14 , BANJARAHILLS***  
***HYDERABAD - 500034 , TELANGANA , INDIA***

**A COMPREHENSIVE SOLUTION FOR**

- ***RADIATION THERAPY***
- ***DOSIMETRY AND NUCLEAR MEDICINE***
- ***QUALITY ASSURANCE FOR RADIOLOGY EQUIPMENT***
- ***CALIBRATION FOR BIOMEDICAL EQUIPMENT***

***RADIAN HEALTH CARE INDIA***  
***8-2-310/3A/5 , ROAD NO:14 , BANJARAHILLS***  
***HYDERABAD - 500034 , TELANGANA , INDIA***

***www.radianhealthcare.com***

**T-Type  
All-In-One Bellyboard**  
YC-KIII-136T



**FEATURES**



**a** It has a unique fixation mode, so it won't cause the ejection of the masks due to breathing, cough or other factors;



**b** Two group of the fixed position for the T-type Belly-Pelvis Mask; and the base plate also can be compatible with the pediatric Head-Neck-Shoulders Mask;



**c** U-shaped Head Mask, T-type Head-Neck-Shoulders Mask and T-type Belly-Pelvis Mask are also can be used on it, and there are 5 groups of the fixed positions to fix for the head supports;



**d** It can be more firmly fixed to the treatment bed and won't shake with side to side by the upper and lower two fixed lock bars;



**e** The vacuum lock cushion can be reset the precise position by the vacuum fixation mats; Equipped with higher leg separator;



**f** It can be extended to the function of SBRT by adding arm-support frame and breast bridge.

**EXTENDED FUNCTION**



**Breast bridge**

Carbon fiber material and no metal material. It can adjust the height of 80mm to effectively reduce the constraint of CT aperture.



**Arm-support frame**

Carbon fiber material. The upper arm bracket has three adjustment positions, the forearm bracket has two adjustment positions, and they all can be adjusted high and low position. And the arm-support frame can be fixed on the treatment couchtop by lock bar.



**T-type modular SBRT**

The baseplate can be used as the AIO and also can be extended to the function of SBRT by adding arm-support frame and breast bridge.

**PARAMETERS**

**01** Length is 1380mm; width of the head-shoulders part is 540mm; width of the pelvis part is 500mm; thickness is 20mm;

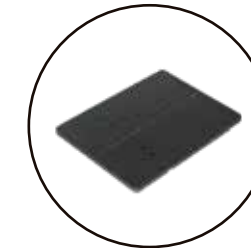
**02** Maximum patient load is 150kg;

**03** The CT value of the inserts around the baseplate circular hole in the treatment range was less than 20HU.



**ACCESSORIES**

Accessory Item	Quantity
T-type All-In-One Bellyboard	1
Head support	1 set (A-F)
Hand grip	2
Leg separator	1set
Arm-support frame and breast bridge	purchased additionally








Mechanical Breathing Limiter Components



Wing-Shaped Board

## FEATURES

1. Carbon fiber material;
2. It is equipped with 2-4 bow form rulers, height-adjustable, and all scales of the rulers are used by special technique, never worn. This product adopt by one-stage molding production process without metal parts. There are some features, such as light weight; high strength; less attenuation and no double image;
3. The function of the laser lamp bridge: through the x, y and z axis direction, build a precise three dimensional coordinate system; 
4. The function of the shoulders bridge: it can prevent shoulders move, meanwhile together with the legs bridge patient can hold a comfortable position;
5. The function of the breast bridge: it can be adjusted according to the figure and the breathing tolerance of the patient. Meanwhile the operator can select and use mechanical breathing limiter components, patient may feels better and easy to reset; 
6. The Wing-Shaped Board has three positions, and suitable for the patient is 150cm - 200 cm in height;
7. The height of the feet and knee fix cushions can be adjusted, and patient can hold a comfortable position; 
8. Compatible with thermoplastic sheet and vacuum fixation mat to use;
9. Compatible with stereotactic head frame can realize SRS (SRT) function;
10. Extended Functions: combine with the supine breast cushions; prone breast cushions; prone pelvic cushions and legs cushions to realize different functions.

## TECHNICAL PARAMETER

Shape size: 2000\*480\*30mm;

X-ray transmittance: >98.2% (6mv x-ray);

Maximum patient load: 200kg.



## APPLICATION

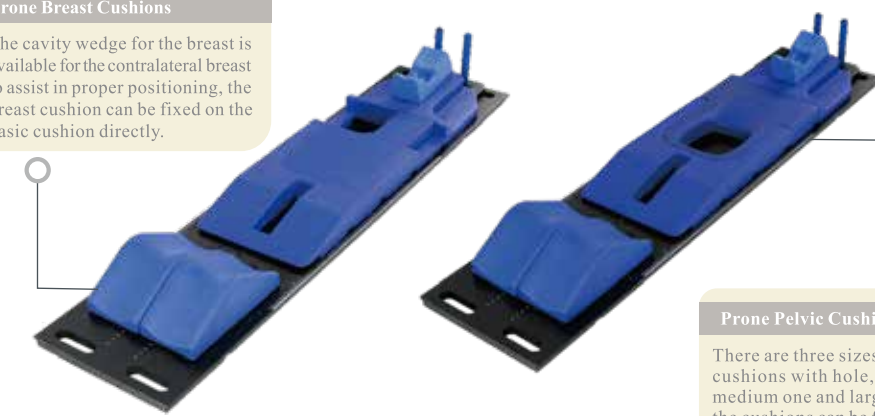


## EXTENDED FUNCTION

It can combine with the supine breast cushions; prone breast cushions; prone pelvic cushions and lower limbs cushions.

### Prone Breast Cushions

The cavity wedge for the breast is available for the contralateral breast to assist in proper positioning, the breast cushion can be fixed on the basic cushion directly.



### Prone Pelvic Cushions

There are three sizes of padded cushions with hole, small one, medium one and large one, and the cushions can be fixed on the basic cushion directly.

### Supine Breast Cushions

The cushions used for the leg the foot, and the height of the cushions can be adjusted.

## ACCESSORIES

Carbon Fiber Base Board

Wing-Shaped Board

Breast Bridge

Laser Lamp Bridge

Shoulders Bridge

Legs Bridge

Knee Fix Cushions

Feet Fix Cushions

Vacuum Fixation Mat Repositor

Cushions for Leg Height Adjustment

Base Board of Knee Fix Cushions

Base Board of Feet Fix Cushions

Hand Grips

Head Supports

Mechanical Breathing Limiter Components

# BRACHYTHERAPY TRANSFER BOARD

> Model:YC-DF161B

# Mechanical Brachytherapy Transfer Board

Model:YC-DF161MRI

## FEATURES

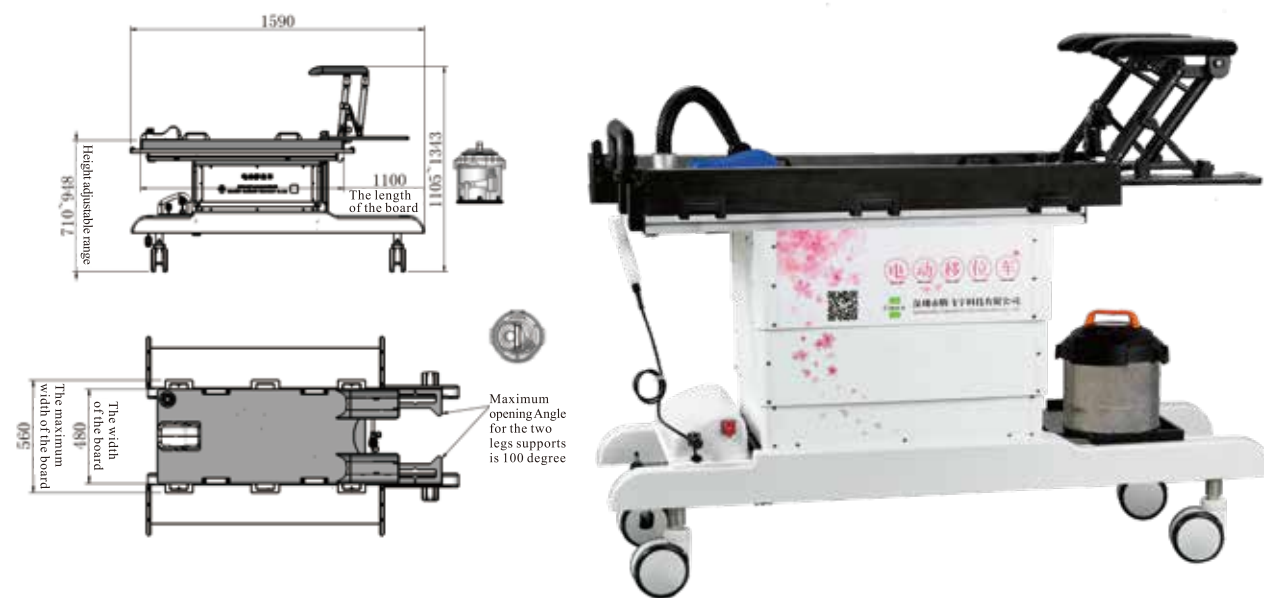
- 1 The airbag can be inflated by the procedures automatically, so the operator can carry the suspended board easily;
- 2 It can be freely in the narrow space of transfer because of the unique design of the transfer board;
- 3 The retractable storage board can be used for the dirt bucket and also for the patient's belongings;
- 4 Source applicator has no any metal material;
- 5 Six Angles source applicator can help you reach the desired location quickly;
- 6 The legs supports are all carbon fiber material;
- 7 The patient's legs can be completely flat and transferred in the most comfortable manner;
- 8 Can be combine used with the vac-lock cushion and thermoplastic sheet;
- 9 The board is very solid, even after bearing 250 kg can be lifted smoothly;
- 10 Equipped with management software, it can store and record the patient's treatment information.



## FEATURES

- There are rails on the transfer bed board, which can be transferred by means of pushing, pulling;
- We can provide the special material used for the MR and carbon fiber material used for the CT;
- The bed has the safety lock design and the height can be adjusted;
- The carbon fiber material transfer bed is operate very easily;
- Seamless transport is possible between Linac, CT and the MR room.

## PARAMETERS



## LEGS SUPPORT

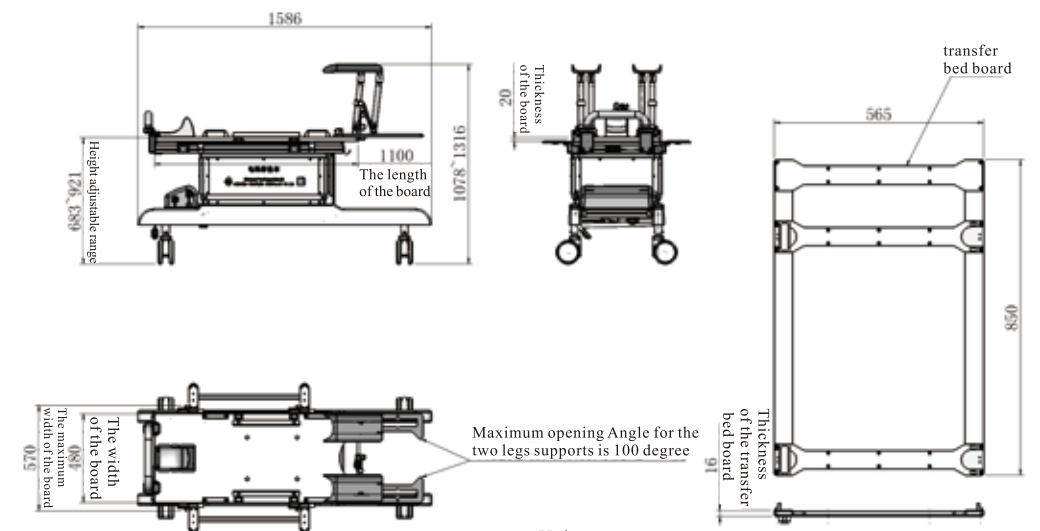
CARBON FIBER



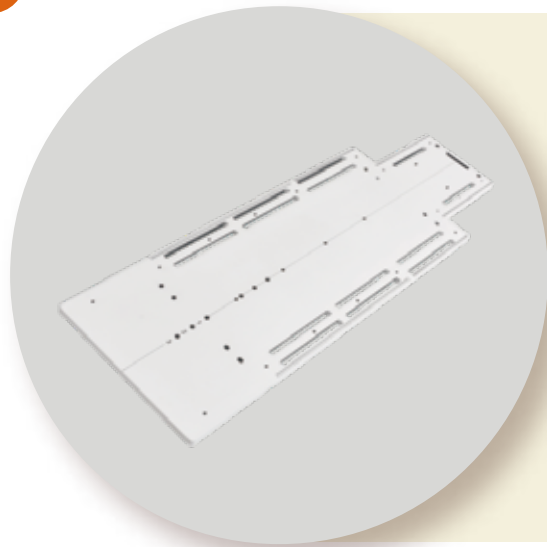
transfer bed board



## PARAMETERS



Unit: mm

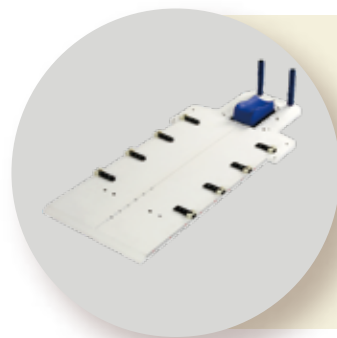
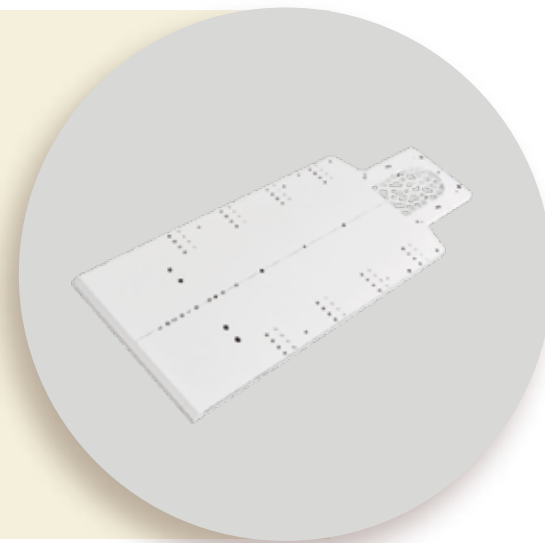


**MR type of All-In-One Board**  
**YC-DF135MR**

1. Special material for MR.
2. Two groups of fixed position for 4-point Belly-Pelvis Sheet and easy adjustment.
3. When reset the vacuum fixation mat, the hemispheric repositer can show the precise position.
4. There are 100cm rulers on both sides.
5. Compatible with U-shaped Head Mask; 3-point Head Mask; Head-Neck-Shoulders Mask; Belly-Pelvis Mask and vacuum fixation mat.
6. Configuration: six high-accuracy head supports; two hand grips; one leg separator and two vacuum fixation mat blockers.
7. Shape size: 1450\*500\*20mm.

**MR type of All-In-One Board**  
**YC-DF136T-MR**

1. Special material for MR.
2. Two groups of fixed position for T-type Belly-Pelvis Sheet and easy adjustment.
3. Compatible with U-shaped Head Mask; T-type Head-Neck-Shoulders Mask; T-type Neck-Shoulders-Breast Mask and T-type Belly-Pelvis Mask.
4. Configuration: six high-accuracy head supports; two hand grips; one leg separator and two vacuum fixation mat blockers.
5. Shape size: 1380\*540\*20mm.



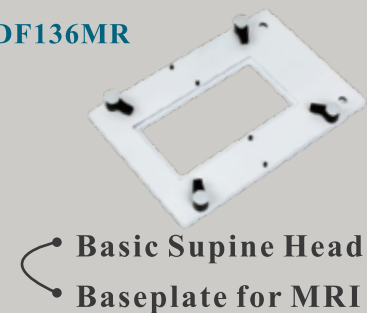
**MR type of CT Bed Panel**

1. Special material for MR.
2. Light-weight and clear imaging.
3. Semi-circular openings with letter indicating on both sides, easy to reset.
4. Width is 530mm; thickness is 20mm.

**Bed Board for MRI**  
**YC-DF134MR**

1. Special material for MRI.
2. Width is 530mm, thickness is 20mm.
3. The bed board is marked with capital letters for easy reset.

**YC-DF136MR**



**Denture**

**YC-DF165**

**Features:**

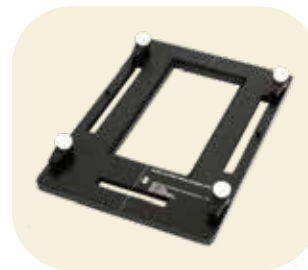
1. It is easily to cast and conform with the teeth, fix to thermoplastic mask preventing head and neck rotation, translation;
2. Providing an airway opening and tongue depressor to insure breathing during treatment;
3. Compatible with head thermoplastic mask;
4. It is disposable.



**Thermoplastic Sheet**

Sponges





### Basic Supine Head Baseplate YC-KIII-103

Carbon fiber material;  
Compatible with 3-point head mask.



### Prone Head Holder YC-KIII-149

1. Carbon fiber material;
2. Compatible with u-shaped head mask;
3. The angles of head position are from 0° to 35°;
4. The prone head holder features sponge chin and forehead pads.



### Tilting Supine Head Baseplate YC-KIII-106

1. Carbon fiber material;
2. Compatible with u-shaped head mask;
3. Tilting baseplate adjusts for angles from 0° to 45°.



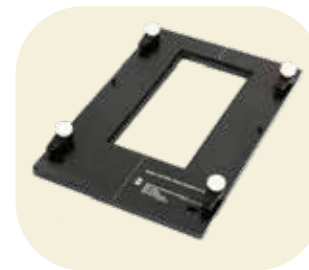
### Breast Baseplate YC-KIII-119L

1. Carbon fiber material;
2. The left and right sides of the arm supports can ensure the upper arms abduction or up and down easily;
3. Compatible with breast sheet and belly-pelvis mask.



### Wing-Shaped Board YC-KIII-126N

1. Carbon fiber material;
2. Narrow type, width is 545mm;
3. T type hand grip is used for patient's arms-up positioning.



### Basic Supine Head Baseplate YC-KIII-104

Carbon fiber material;  
Compatible with u-shaped head mask.



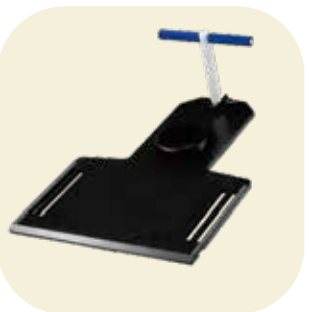
### Lateral Baseplate YC-KIII-150

1. Carbon fiber material;
2. Height adjustment range 20mm;
3. The lateral baseplate is specially padded for comfortable, reproducible lateral head & neck positioning;
4. Lateral baseplate includes lateral head cushion and reloadable frame.



### Head-Shoulders Baseplate YC-KIII-116

1. Carbon fiber material;
2. Equipped with a transparent head support.



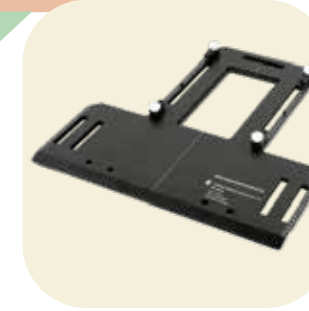
### Breast Baseplate YC-KIII-119

1. Carbon fiber material;
2. Hand grips at head end;
3. Compatible with breast sheet and breast vacuum fixation mat.



### Wing-Shaped Board YC-KIII-126

1. Carbon fiber material;
2. Wide type, width is 623mm;
3. U type hand grips are used for patient's arms-up positioning.



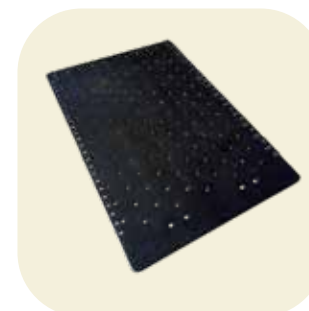
### Head-Shoulders Baseplate YC-KIII-114

1. Carbon fiber material;
2. Application: choose masks with 3, 4 or 5 points to meet the specific needs of the treatment.



### Belly-Pelvis Baseplate YC-KIII-120T

1. Carbon fiber material;
2. T-TYPE;
3. Compatible with breast vacuum fixation mat and t-type belly-pelvis mask.



### Limbs Baseplate YC-KIII-130C

1. Carbon fiber material;
2. Arms and legs can be used only;
3. Patients can be placed any desired position.



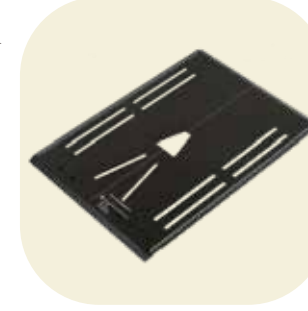
### High-accuracy Head Supports YC-DF111

1. 6 various sizes (A-F) per set;
2. High-accuracy head supports are made of low density polyethylene foam;
3. Six different shapes are sold separately or as a complete set;
4. Compatible with head baseplate and head-neck-shoulders baseplate.



### Belly-Pelvis Baseplate YC-KIII-120

Carbon fiber material;  
Compatible with belly-pelvis mask.



### Belly-Pelvis Baseplate YC-KIII-122

1. Carbon fiber material;
2. Compatible with 4-point belly-pelvis mask or 6-point pelvis mask.



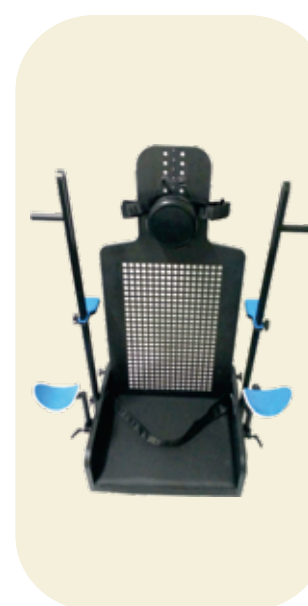
### Transparent Head Supports YC-DF110

1. PVC material;
2. 6 various sizes (A-F) per set;
3. Transparent head supports can be purchased individually or in sets of six with six various sizes.



### Carbon fiber Head Supports YC-DF201

Carbon fiber material.  
4 various sizes (A-D) per set.  
Used for the AIO-Plate.



### Treatment Chair YC-DF166

1. Carbon fiber material;
2. Hand grips and arm supports with scale on both sides;
3. Head support together with head and belly part belt let patient feels convenient, comfortable and reliable;
4. This product used for the patient who needs to be treated in a seat position.

### Prone Pelvis Bellyboard YC-KIII-199

Carbon fiber material. Shape size: 1350\*450\*85mm.  
Compatible with Prone Position Pelvis Mask.  
Accessories: one prone pillow, three cushions for pelvis with different sizes hole and one leg separator.



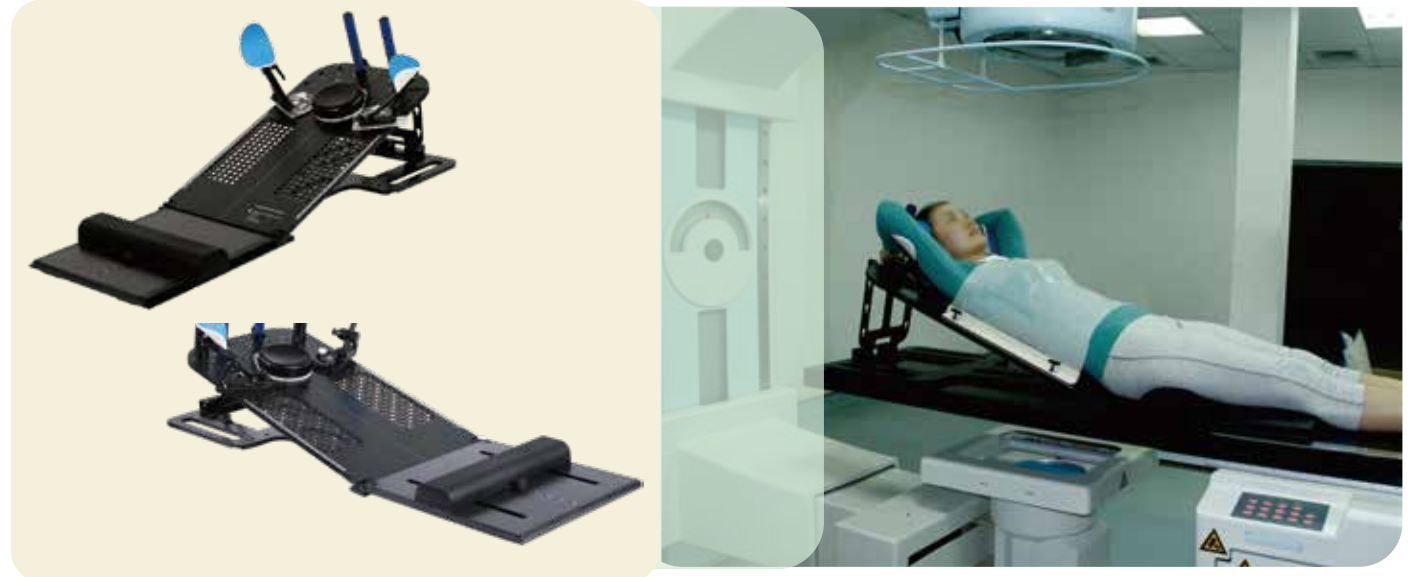
### SRT Head Frame YC-KIII-191



This product is composed of head frame; baseplate; head fixation component and bite devices. Special head frame designing allows right to left interchangeability and three dimensional adjustments. It should combine with denture and thermoplastic mask to use.

### Carbon Fiber Breastboard

Model: YC-KIII-102



#### Features:

1. Carbon fiber material;
2. Light board makes for easy handling;
3. The board elevation supports secure angles from 5° to 20° in four steps;
4. Advanced arm supports, with higher holding capacity;
5. The hand grips with scale instructions are convenient to setup;
6. Compatible with breast mask;
7. Comes with a special head support;
8. Maximum patient load is 120kg;
9. Accessories include 2 Hand Grips, 2 Arm Supports, 1 Head Support and 1 Bottom Stopper.



Arm supports



Angle adjustment



Breast Mask



Angle adjustment board be folded



Bottom Stopper



Bottom Stopper



Head support



It should combine with denture and thermoplastic mask to use.

### Prone Pelvis Bellyboard



YC-DF127

Composite materia,  
Used for CT or MRI,  
Shape size: 1150\*450\*95mm.

Fixation for leg



Fixation for arm

### Vacuum Pump GM-0.5A



#### Features:

- ▶ 1. Dual Function, that is air-in and air-out very fast;
- ▶ 2. Oil free and Maintenance free;
- ▶ 3. Pressure can be detected;
- ▶ 4. Sanitation and Environment.

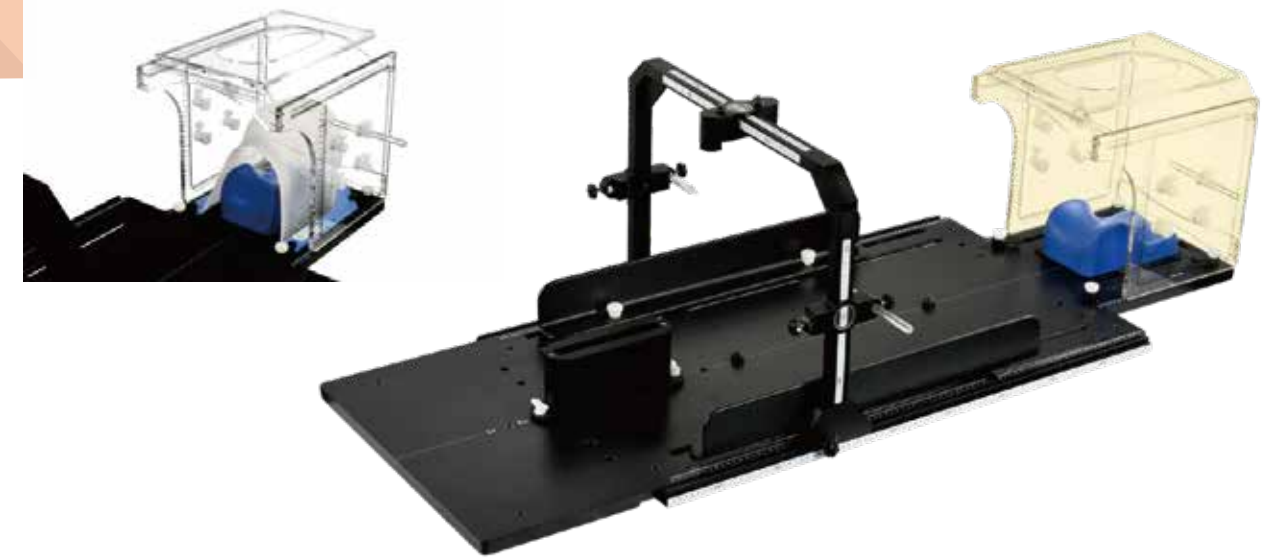
#### Parameters:

- Ultimate pressure: 0.08MP<sup>a</sup>
- Evacuation rate: 30L/min
- Motor power: 160W
- Rated voltage: 230V AC.50HZ

# ALL - IN - ONE BASEBOARD

## Features:

- ▶ 1. X-ray transmittance: >98.2 (6mv x-ray); Maximum patient load: 150kg;
- ▶ 2. Head supports can be adjusted up and down according to patients' stature;
- ▶ 3. The hand grips with scales are convenient to lift patients' arms;
- ▶ 4. Two groups of fixed position for Belly-Pelvis Mask and easy adjustment;
- ▶ 5. Vacuum fixation mat blockers ensure the vac-lock cushions convenient to use and easy to reset;
- ▶ 6. 1000mm scales on both sides are more intuitively under laser lamp;
- ▶ 7. Leg separator can be set up and moved up quickly;
- ▶ 8. Compatible with pelvis thermoplastic mask;
- ▶ 9. Combine with the lock bar, the base plate can be loaded onto the treatment bed.



### All-In-One Board

Model:YC-KIII-136



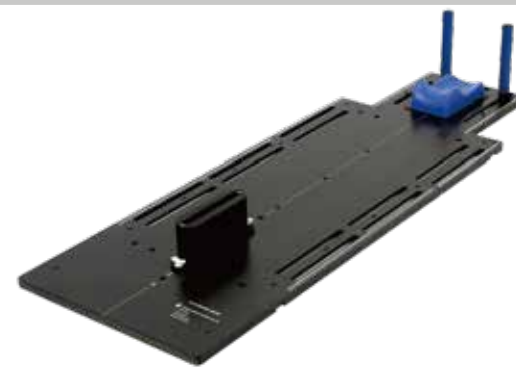
Model:YC-KIII-136P



Model:YC-KIII-136T



Model:YC-KIII-135



### SRT

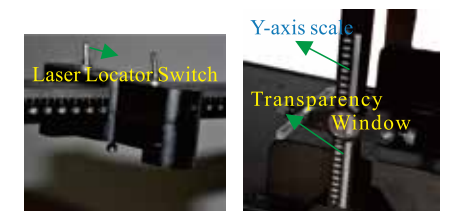
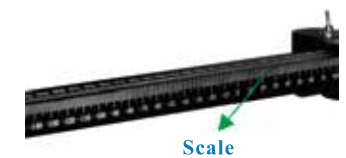
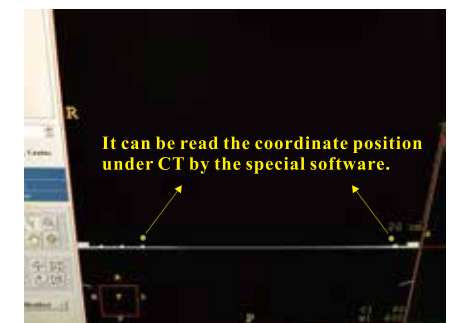
Model: YC-KIII-132

## FEATURES

- ▶ 1. Carbon fiber material;
- ▶ 2. It has one bow form ruler;
- ▶ 3. Can be matched with TPS system;
- ▶ 4. Comes with one carbon fiber head support and two vacuum fixation mat blockers;
- ▶ 5. Compatible with u-shaped head mask, 3-point head mask, 5-point head-neck-shoulders mask, 2-point breast mask, 4-point belly-pelvis mask and 6-point pelvis mask;
- ▶ 6. This product can be added metal coordinates into the baseplate, and the central coordinates of the tumor can be read directly through the supporting software, without the need for CTSIM;
- ▶ 7. Positional accuracy  $\leq 0.5\text{mm}$ .

## ACCESSORIES

Carbon fiber baseplate	1pc	Level governor (screw)	1set
Bridge with laser	1set	Supine Head Supports	1set
Locating rod slider	2sets	Shell frame for head positioning	1set
Locating rod	2pcs	Vacuum fixation dam-board	1set
Hand grips	2pcs	Vacuum fixation mat reposer	1set





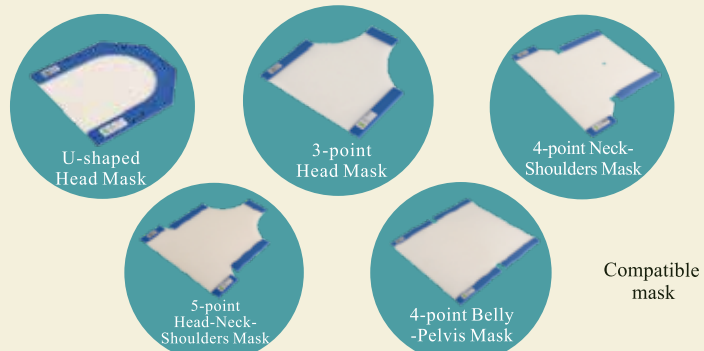
SRT

Model: YC-KIII-133



Radiotherapy Positioning Products

1. Carbon fiber material;
2. It has one bridge with laser lamp;
3. Can be matched with TPS system;
4. Maximum patient load: 150kg;
5. Comes with two vacuum fixationmat blockers.



Compatible mask

Level Adjuster



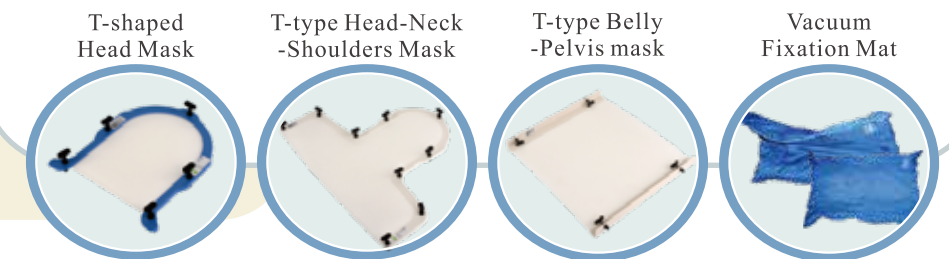
Alloy aluminum material; One set including 2 pieces; This product is mainly used for horizontal adjustment for the baseplate or the CT couchtop.

SRT

Model: YC-KIII-132T

FEATURES

1. Carbon fiber material;
2. It has one bridge with laser lamp;
3. Can be matched with TPS system;
4. Comes with two vacuum fixation mat blockers.



Vacuum Fixation Mat

Model: YC-ZII



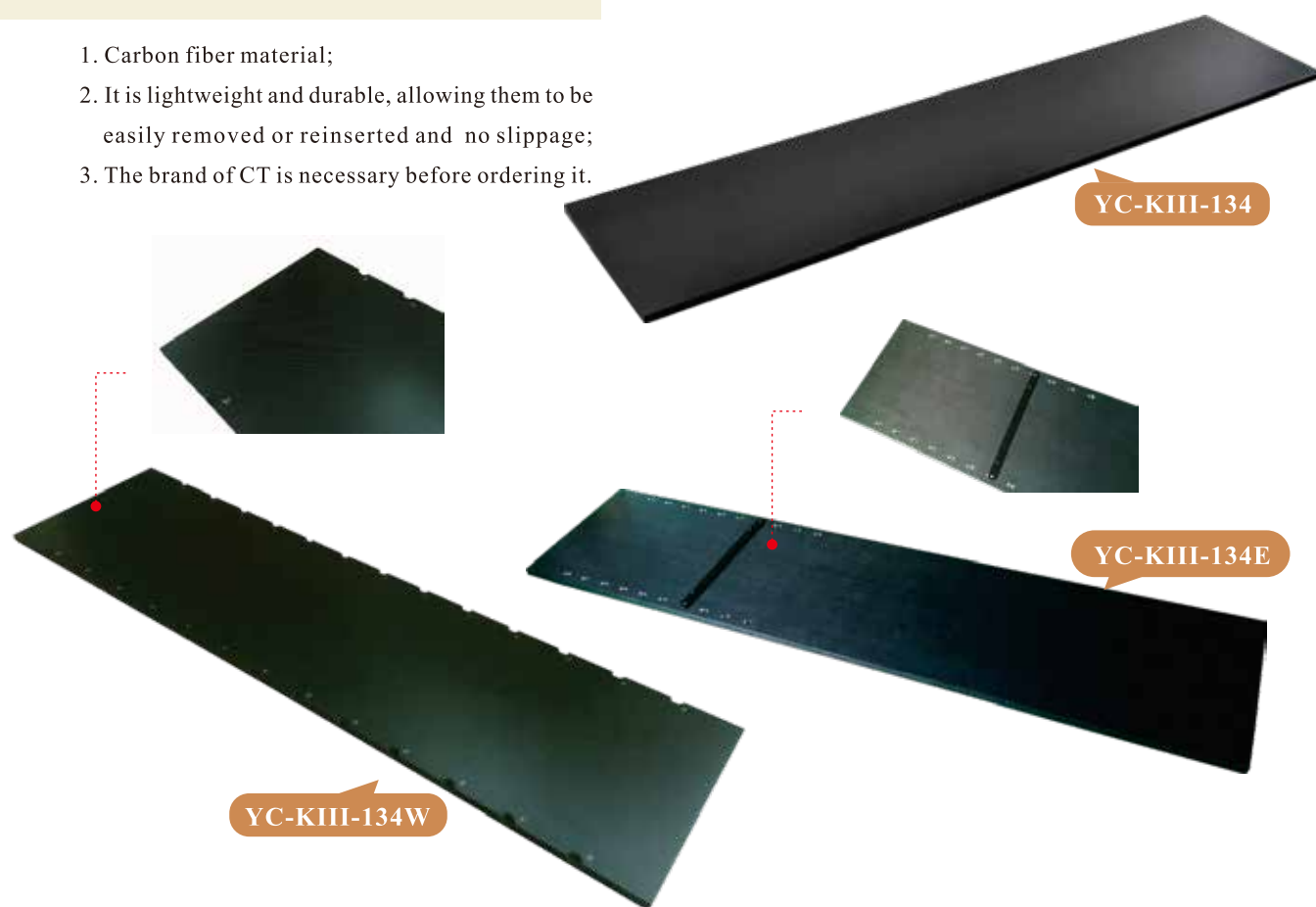
1. Surface of the product is comfortable and light with good gas tightness;
2. Used for radiation therapy in patients position and fixation;
3. The product filling with EPS grains and the surface is environmental fabric;
4. It is automatic sealing, and easy to operate;
5. The black protective cap of the product is on the front end, it can prevent the air leakage in the handling process, and it also can have the effect of secondary seal;
6. Can customize the card for recording the patient's information;
7. Can customize any kinds of sizes;
8. Can provide the special vac-lock cushion for Gamma knife.



## CT Bed Panel

### CT Bed Panel

1. Carbon fiber material;
2. It is lightweight and durable, allowing them to be easily removed or reinserted and no slippage;
3. The brand of CT is necessary before ordering it.



## ProneFix

Model: YC-KIV-193



### ProneFix Whole Body Fixation System

- ProneFix can be totally compatible with ORFIT AIO Board.
- Used for Pelvic and Breast Prone position.
- Compatible with vac-lock cushion, disposable cushion and
- Belly-Pelvis thermoplastic mask.



#### Dual Leg Positioner

● YC-DF164 ●

1. Polyurethane material;
2. Fix whole legs for supine hip and pelvis treatments.

#### knee cushion

● YC-KIV-197 ●

Polyurethane material;  
Shape size: 470\*400\*175mm.

#### feet cushion

● YC-KIV-198 ●

Polyurethane material;  
Shape size: 470\*320\*180mm.

## All-body Cushions

### Functions:

#### 1. All-In-One board (including extension component)

The all-in-one board can be compatible with all cushions, and also can be used as supine head-neck-shoulders baseboard and belly-pelvis baseboard.

#### 2. Prone Pelvic Cushions

It has three sizes of padded with hole, there are small one, medium one and large one, and one padded without hole inserts to accommodate a variety of patients. Load the cushions on the base plate directly and used for prone pelvis fixation and craniospinal irradiation fixation.

#### 3. Prone Breast Cushions

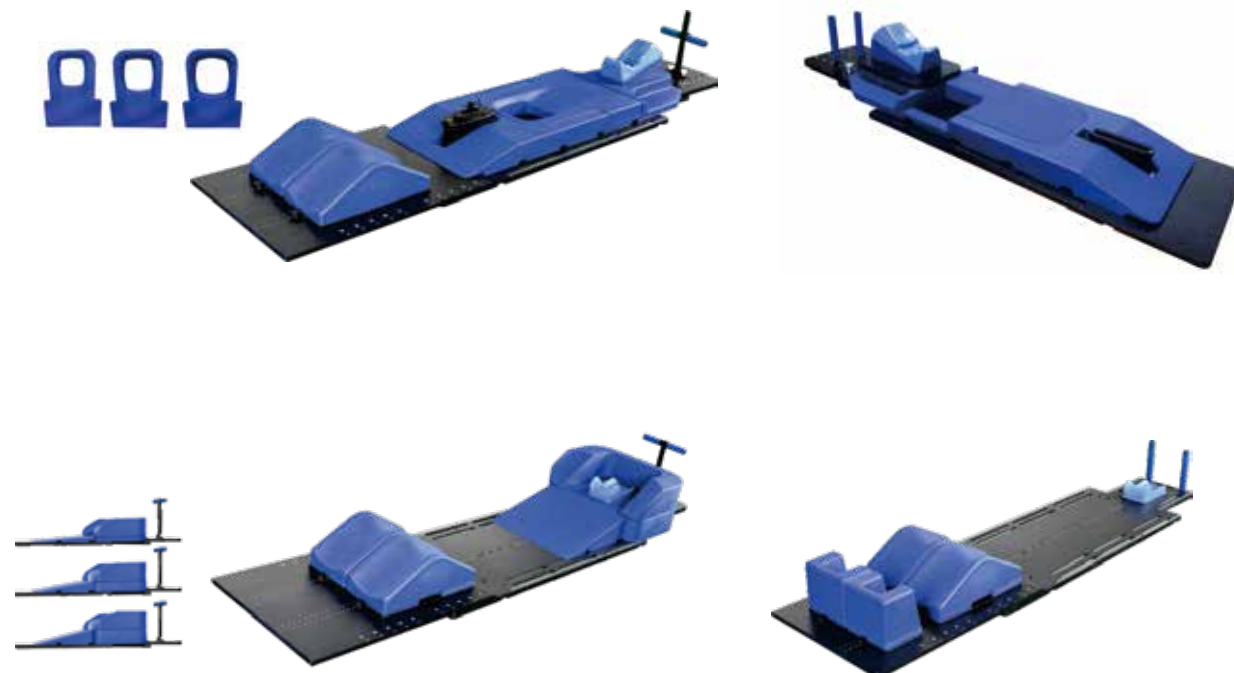
The cavity wedge for the breast is available for the contralateral breast to assist in proper positioning. The cushions are used for breast conservation therapy in prone position and fixation.

#### 4. Supine Breast Cushions

There are three plat cushions, which heights are 70mm, 85mm and 101mm; three wedge-shape cushions, which angles are 5°, 10° and 15°. The cushions are used for breast therapy in supine position and fixation.

#### 5. Lower Limbs Cushions

The lower limbs positioning system include one carbon fiber base plate, two knees cushions and two feet cushions and used for the lower limbs therapy. This system can be used as lower limbs fixation together with all-in-one board and all other cushions, such as prone pelvis cushions, prone breast cushions, supine breast cushions, and the knees cushions used as ankle fixation in prone position.



## Supine Breast Cushions



### YC-KIV-155

1. Polyurethane material;
2. Load it on the base plate directly, firmly fixed and repetitive used;
3. Supported unilateral breast treatment;
4. Three angles of three wedge-shape cushions: 5°, 10°, 15°; and the heights of three plat cushions: 70mm, 85mm and 101mm;
5. Ergonomic hand grips and arm cushions comfortably support the patient.
6. Not including the All-In-One board.

## Lower Limbs Cushions



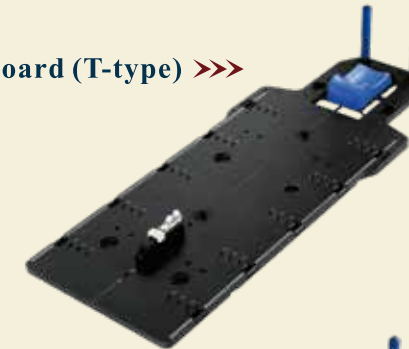
### YC-KIV-158

1. Polyurethane material;
2. Can be used for single lower limbs therapy fixation;
3. Can be used as lower limbs fixation in craniospinal irradiation therapy;
4. Not including the All-In-One board.

## All-In-One Board

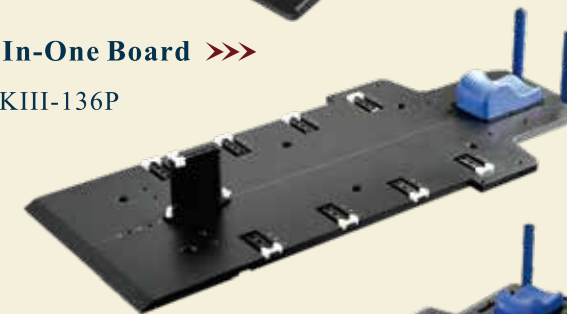
### All-In-One Board (T-type) >>>

YC-KIII-136T



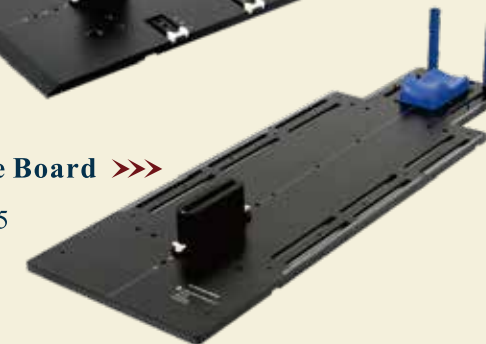
### All-In-One Board >>>

YC-KIII-136P



### All-In-One Board >>>

YC-KIII-135



## Vacuum Bags

- » Vacuum Bags offer a rigid and secure support around the patients. The coated nylon shell protects them from tear and stain. The vacuum bags are completely air-tight, leak proof, water-proof and fill with optional density particles made from polyamide
- » Built-in lock bars are available, different size and shape of vacuum bags are available too



- » Ultra durable, high-quality polyamide
- » Dark blue color distinguishable in optical imagers
- » MR Safe
- » Radio-translucent
- » Easy to clean
- » Cost-effective
- » Adapters available for any manufacturer's pump



T-Shaped Vacuum Bag with Open Headrest



Vacuum Bag Positioner Compatible Positioner

## » Indexed Rectangular Vacuum Bags

- » 100cm x 70cm vacuum bag, 30L, indexed
- » 70cm x 70cm vacuum bag, 20L, indexed
- » 120cm x 80cm vacuum bag, 38L, indexed
- » 100cm x 75cm vacuum bag, 30L, indexed
- » 120cm x 75cm vacuum bag, 35L, indexed
- » 150cm x 75cm vacuum bag, 45L, indexed



## » Non-Indexed Rectangular Vacuum Bags

- » 100cm x 70cm vacuum bag, 30L
- » 70cm x 70cm vacuum bag, 20L
- » 120cm x 80cm vacuum bag, 38L
- » 100cm x 75cm vacuum bag, 30L
- » 120cm x 75cm vacuum bag, 35L
- » 150cm x 75cm vacuum bag, 45



## » Non-Rectangular Vacuum Bags

- » 110cm x 55cm wing board breast bag, 15L, chambered
- » 125cm x 110cm T-shaped vacuum bag, 31L, chambered
- » 105cm x 75cm arms up vacuum bag, 28L, indexed
- » 75cm x 75cm arms up vacuum bag, 20L, indexed
- » 105cm x 75cm arms up vacuum bag, 28L
- » 75cm x 75cm arms up vacuum bag, 20L



## EXTREMITY VACALOK CUSHION



## Vaclok for srs system compactable with Fraxion srs frame



## » Antimicrobial Storage Bag For Patient Treatment Devices



## » Features

- » Antimicrobial to prevent growth of microorganisms
- » Self-deodorizing
- » Approximately 20" x 20"
- » Zipper to contain all contents safely
- » Completely sealed to prevent cross-contamination between masks that may touch
- » Can be given to the patient once treatment is complete

## 2D automatic Cutter

Model: YC-HM149



### Equipment system structure:

1. Four-axis control system (computer control);
2. Foam quick fix system;
3. Automatic Emergency Braking;
4. Hot wire quick change system;
5. Cutting control system (including automatic and manual);
6. Exhaust system;
7. Illuminating system;
8. Temperature control system;
9. Software system (including Patient database, Field input page, Field conversion and printing page, Field machining control page and Hardware motion test page).

### Standard configuration list:

- |                                 |                               |                                |
|---------------------------------|-------------------------------|--------------------------------|
| 1. Cutter (1pc)                 | 2. Control card (1pc)         | 3. Operational software (1set) |
| 4. Data Cable (6m)              | 5. Special cutting wire (20m) | 6. Computer (1pc)              |
| 7. Digitizer with A2 size (1pc) | 8. Instruction book (1pc)     | 9. Service aid (1set)          |

## Multifunctional Cutter

YC-HM151

1. Used for electronic-ray treatment;
2. Two types of cutting: transverse and vertical;
3. Easy to operate.



## Digital horizontal rule

LS160II



It is digital readout rule and with audible cue at 0 degree. It can measure 360 degrees and has its own calibration function.

## Laser-light protective goggles

YC-JH



- It can effectively prevent laser damage to the eyes.
- It used for green and red light.

## » Verify Tablets Bracket



- » Removable.
- » Castors with self-locking function.
- » The control panel of cassette can be rotated 190°, 360°.
- » Maximum cassette is 14"\*17".
- » Shape size: arm length 500mm\*1800mm.
- » Shape size can be customized

## Barometer



DYM3

## Template

YC-HM157

1. Used for x-ray;
2. 5 pieces per set for Elekta and Varian, and 4 pieces per set for Siments;
3. The thickness of the Elekta and Siments is 10mm, and the Varian is 6mm.



## High-density Foam

- ▶ **Model: YC-HM160**  
Shape size: 300×300×20mm
- ▶ **Model: YC-HM161**  
Shape size: 300×300×100mm
- ▶ **Model: YC-HM162**  
Shape size: 300×600×80mm
- ▶ **Model: YC-HM163**  
Shape size: 300×300×80mm



## Digital Body Calipers

YC-HM178



YC-HM179



### Model: YC-HM178

1. Packaged by aluminum box;
2. Measurement length is 500mm, accuracy is 1mm;
3. With scale instructions of tangent 90° for breast.

### Model: YC-HM179

1. Digital liquid crystal display (LCD) is imported;
2. Measurement length is 500mm, accuracy is 1mm.

## Alloy Melter

YC-HM152



1. Stainless-steel material;
2. It is digital temperature-controlled system;
3. The accuracy of the temperature-controlled is ±1°C;
4. Maximum amount of molten lead is 80kg;
5. It comes with one iron scoop.

## Bolus



### YC-HM193

Shape size: 30\*30\*0.5cm;  
Density: 1.02-1.04 g/cm<sup>3</sup>.

### YC-HM194

Shape size: 30\*30\*1.0cm;  
Density: 1.02-1.04 g/cm<sup>3</sup>.

## Model: YC-HM154

1. Used for electronic-ray;
2. Mould steel material;
3. Use for Elekta only;
4. It can cast the required lead on the lateral opening side directly.



## Beam Block Mold



### Model: YC-HM153

1. Used for electronic-ray;
2. Lightweight metal material;
3. Used for Siemens accelerators only;
4. 5 various sizes per set;
5. It comes with bottom board.



### Model: YC-HM155

1. Used for electronic-ray;
2. Mould steel material;
3. Use for Elekta only.

### Model: YC-HM156

1. Used for x-ray;
2. Lightweight metal material;
3. 4 pieces per set;
4. Maximum range is 200×200mm.



### Blocking Tray



Model: YC-HM164

- 1. Non-porous;
- 2. Acrylic material;
- 3. Please provide the samples.

Model: YC-HM165

- 1. Porous;
- 2. Acrylic material;
- 3. Please provide the samples.

### Block Casting



- 1. Die steel material;
- 2. It has screws for horizontal adjustment.

### Scanning Water Phantom

YC-HM184



- 1. Compatible with the 0.6CC ionization chamber;
- 2. It has scale instruction, water tap and screws for horizontal adjustment;
- 3. It can be customized.

### Radiotherapy Bower



YC-HM176

- 1. Used for x-ray treatment;
- 2. Reflection and scattering screen at both front and back;
- 3. Two hand grips at both sides;
- 4. Casters at the bottom are easy to mobile.

### Eye Shields

YC-HM188



- 1. Eye shields are designed to provide protection of the ocular structure;
- 2. Two pieces in per set;
- 3. Coated the polymer material on the surface to reduce scattering;
- 4. Shape size: the external diameter is 28mm and the internal diameter is 23mm.

### Testicle Shields

YC-HM187



- 1. Shielding material;
- 2. Testicle shields are designed to reduce scatter radiation to the testicles;
- 3. All surfaces are coated with a polyurethane paint to reduce lead exposure;
- 4. Each unit is cast to provide a lead wall and features an open sector to allow comfortable attachment to the patient;
- 5. There are one testicle shield and one testicle shield stand in per set;
- 6. Shape size: the external diameter is 86mm, the internal diameter is 60mm and the maximum regulation range of the testicle shield stand is 250mm.

### Horizontal Radiotherapy Bed



- 1. Used for electronic-ray treatment;
- 2. Steel material bed and aluminium alloy material light box;
- 3. Reflection and scattering screen at both front and back, and the thickness of the screens is 10mm;
- 4. The height range of the treatment bed is 176-216mm.

## Radiotherapy Positioning Products

### » Vacuum Fixation Mat Repositor



Carbon fiber material  
cruciform structure  
compatible with civco type AIO board



Carbon fiber material  
cruciform structure  
compatible with ORFIT type AIO board



Carbon fiber material  
cruciform structure  
compatible with TYF type AIO board

### » Prone Head Support



- » Ployurethane Material
- » No attenuation, Two sizes available

### » Lock Bar



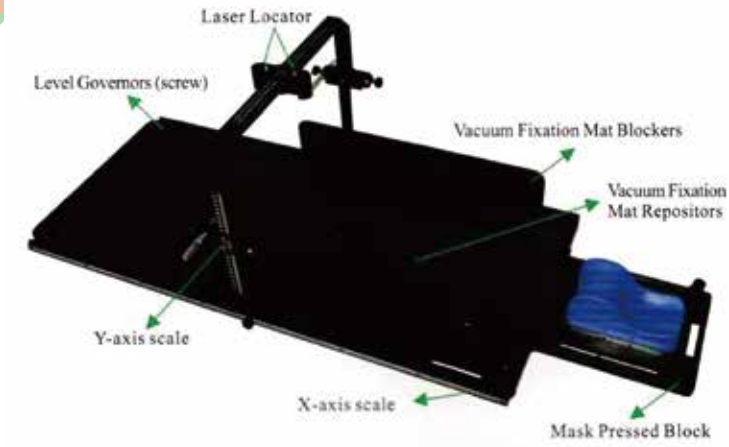
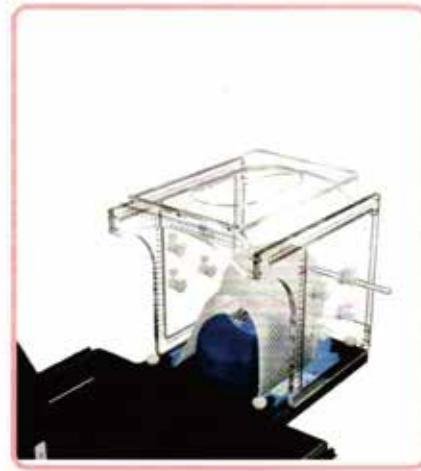
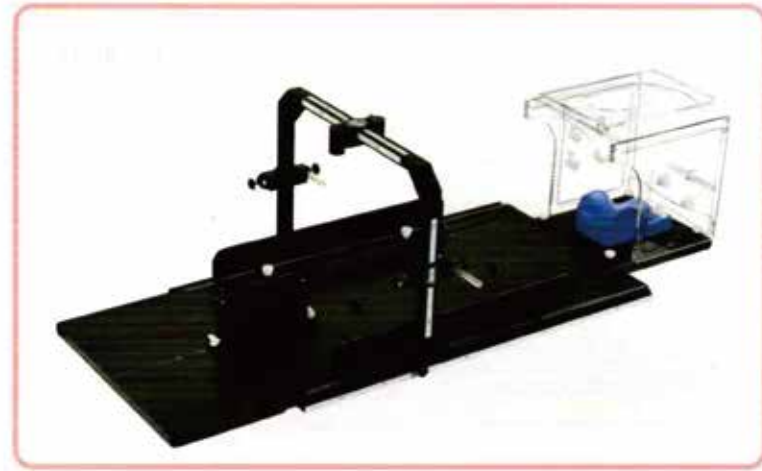
- » Alloy aluminum material
- » Conventional type;
- » Can fix any kind baseplate on the couch
- » Custom-made is on the basis of the brand of CT scanner, simulator or accelerator

### » Vacuum Fixation Mat



- » Surface of the product is comfortable and light with good gas tightness
- » Used for radiation therapy in patients position and fixation
- » The product filling with EPS grains and the surface is environmental fabric
- » It is automatic sealing, and easy to operate;
- » The black protective cap of the product is on the front end, it can prevent the air leakage in the handling process, and it also can have the effect of secondary seal
- » Can customize the card for recording the patient's information
- » Can customize any kinds of sizes
- » Can provide the special vac-lock cushion for Gamma knife



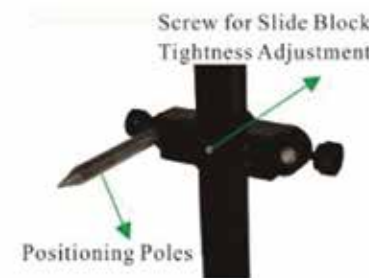
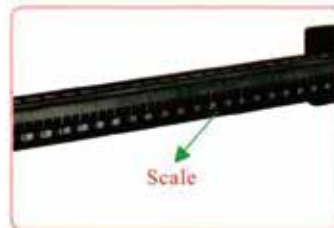


## Features

- » Carbon fiber material;
- » It has one bow form ruler;
- » Can be matched with TPS system;
- » Maximum patient load: 150kg;
- » Comes with two vacuum fixation mat block

### Features:

1. Carbon fiber material;
2. It has one bow form ruler;
3. Can be matched with TPS system;
4. Comes with one carbon fiber head support and two vacuum fixation mat blockers;
5. Compatible with u-shaped head mask, 3-point head mask, 5-point head-neck-shoulders mask, 2-point breast mask, 4-point belly-pelvis mask and 6-point pelvis mask.



### Accessories :

Description	Qty.	Description	Qty.
Carbon Fiber Base Board	1	Vacuum Fixation Mat Blockers	2
Carbon Fiber Head Support	1	Bow Form Ruler	1
Level Governors (screw)	4	Level Governors (ballonet)	4
Laser Locator	1	Shell Frame for Head Positioning	1
High-accuracy Head Supports	6	Hand Grips	2
Positioning Poles	2	Vacuum Fixation Mat Repositors	3



## Features

- » Carbon fiber material;
- » It has one bow form ruler;
- » Can be matched with TPS system;
- » Maximum patient load: 150kg;
- » Comes with two vacuum fixation mat blockers

## Thermoplastic Mask

### » Violet Thermoplastic Mask

Violet Thermoplastics are made from a new, premium thermoplastic material clinically designed for optimal moulding time and patients comfort with extremely low shrinkage rate and non-sticky surface. Excellent patient experience is all we striving for throughout the entire process. Special designs are available upon request to meet different manufacturers' baseplates compatible needs



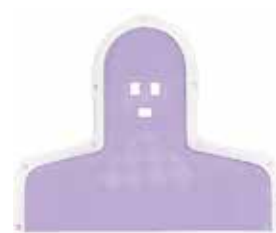
- \* Low shrinkage;
- \* Optimal molding time;
- \* Ergonomically designed for patient comfort;
- \* Non-Stick;
- \* Violet color to alleviate patient anxiety



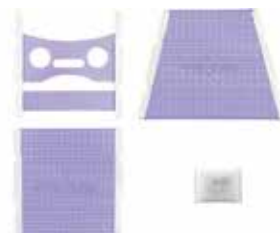
Emarginated frame design for easy removal.

### » Featured Thermoplastic Mask.

Thermoplastics feature a combination of enhanced perforation and solid thermoplastic to provide rigidity and secure immobilization for IMRT treatments. Open face & claustrophobia masks are compatible with VisionRT's Align RT Camera systems and other camera systems while standard perforation masks are more cost-effective and popular in most clinics.



S-Type (Open Face)



Stereotactic X-Knife



L-Type (IMRT)



P-Type (IMRT)

### » U-Frame Violet Thermoplastic Mask

U-Shaped Head Mask



22% perforation  
2.4mm RF-A101P-2001W  
3.0mm RF-A101P-3001W

U-Shaped Head Mask



Reinforced  
2.4mm RF-A101P-2003W  
3.0mm RF-A101P-3003W

U-Shaped Head Mask



Reinforced Open Face  
2.4mm RF-A101P-2002W  
3.0mm RF-A101P  
U-Shaped Head Mask  
Lengthened

U-Shaped Head Mask



Reinforced  
2.4mm RF-A100P-2003W  
3.0mm RF-A100P-3003W

U-Shaped Head Mask  
Lengthened 5cm



22% perforation  
2.4mm RF-A101P-2501W  
3.0mm RF-A101P-3501W



22% perforation  
2.4mm RF-A101P-2901W  
3.0mm RF-A101P

### » S-Type Violet Thermoplastic Mask

S-Shaped Head Mask



22% perforation, Pin-Lock  
2.4mm RF-C101P-2001W  
3.0mm RF-C101P-3001W

S-Shaped Head Mask



Reinforced, Pin-Lock  
2.4mm RF-C101P-2002W  
3.0mm RF-C101P-3002W

S-Shaped Head Mask



Reinforced Open Face, Pin-Lock  
2.4mm RF-C101P-2004W  
3.0mm RF-C101P-3004W

S-Shaped Head Mask



22% perforation, Pin-Lock  
2.4mm RF-C101P-2501W  
3.0mm RF-C101P-3501W

S-Shaped Head Mask  
Lengthened 5cm



S-Shaped Head Mask  
Lengthened 9cm



22% perforation, Pin-Lock  
2.4mm RF-C101P-2901W  
3.0mm RF-C101P-3901W

## Thermoplastic Mask

### S-Type Violet Thermoplastic Mask

#### S-Shaped Head & Neck & Shoulder Mask



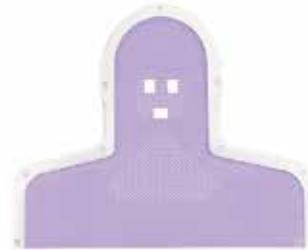
22% perforation ,Pin\_Lock  
2.4mm RF-F101P-2001W  
3.0mm RF-F101P-3001W



Reinforced ,Pin\_Lock  
2.4mm RF-F101P-2002W  
3.0mm RF-F101P-3002W



22% perforation Open face ,Pin\_Lock  
2.4mm RF-F101P-2004W  
3.0mm RF-F101P-3004W



Reinforced Open face ,Pin\_Lock  
2.4mm RF-F101P-2007W  
3.0mm RF-F101P-3007W

### P-Type Violet Thermoplastic Mask

#### Triangular Head Mask



2% Perforation  
3 point with Nose Hole  
2.4 mm RF -B072P-2001W  
3.0mm RF-B072P - 3001 W

#### Triangular Head Mask



Reinforced  
3 point with Nose Hole  
2.4 mm RF -B072P-2002W  
3.0mm RF-B072P - 3002 W

#### Triangular Head Mask Lengthened 5cm



22% Perforation  
3 point with Nose Hole  
2.4 mm RF -B072P-2001W  
3.0mm RF-B072P - 3001 W

## P-Type Violet Thermoplastic Mask

#### Head & Neck & Shoulder Mask



22% perforation  
5 point with Nose Hole  
2.4mm RF-E256P-2001W  
3.0mm RF-E256P-3001W

#### Head & Neck & Shoulder Mask



Reinforced  
5 point with Nose Hole  
2.4mm RF-E256P-2002W  
3.0mm RF-E256P-3002W

#### Neck & Shoulder Mask



22% perforation  
4 point with Nose Hole  
2.4mm RF-D150P-2001W  
3.0mm RF-D150P-3001W

## » L-Type Violet Thermoplastics Mask

#### Triangular Head Mask



22% perforation,  
3 Point with Nose Hole  
2.4mm RF-B062P-2001W  
3.0mm RF-B062P-3002W

#### Triangular Head Mask



22% perforation,  
3 Point with Nose Hole  
2.4mm RF-B062P-2301W  
3.0mm RF-B062P-3302W

#### Triangular Head Mask



Reinforced,  
3 Point with Open Face  
2.4mm RF-B062P-2003W  
3.0mm RF-B062P-3003W

#### Triangular Head Mask



Reinforced,  
3 Point with Open Face  
2.4mm RF-B062P-2008W  
3.0mm RF-B062P-3008W

#### Neck & Breast Mask



22% perforation,  
4 Point with Nose Hole  
2.4mm RF-D122P-2001W  
3.0mm RF-D122P-3002W

#### Neck & Shoulder Mask



22% perforation,  
4 Point  
2.4mm RF-P133P-2001W  
3.0mm RF-P133P-3002W

## Thermoplastic Mask

### L-Type Violet Thermoplastic Mask

Head & Neck & Shoulder Mask



22% perforation,  
5 Point with Nose Hole  
2.4mm RF-E222P-2001W  
3.0mm RF-E222P-3002W

Head & Neck & Shoulder Mask



Reinforced, 5 Point with  
Nose Hole  
2.4mm RF-E222P-2003W  
3.0mm RF-E222P-3003W

Head & Neck & Shoulder Mask



Reinforced, 5 Point  
with Open Face  
2.4mm RF-E222P-2008W  
3.0mm RF-E222P-3008W

Chest-Pelvic Mask



22% perforation, 4 Point  
3.0mm RF-H421P-3002W - 228  
3.0mm RF-H451P-3002W - 243  
3.0mm RF-H481P-3002W - 247

Pelvic Mask



22% perforation, 6 Point  
3.0mm RF-K521P-3002W - 228  
3.0mm RF-K551P-3002W - 243  
3.0mm RF-K581P-3002W - 247

Thorax & abdomen Mask



22% perforation, 6 Point  
2.4mm RF-G186P-2001W  
3.0mm RF-G186P-3002W

## » Breast & Pelvic Thermoplastics Mask

### For R11-Series Baseplates

Neck & Breast Mask



22% perforation, Pin-Lock  
2.4mm RF-V101P-2003W  
3.0mm RF-V101P-3003W

Trunk Mask



Plain, Pin-Lock  
2.4mm RF-T100P-2002W  
3.0mm RF-T100P-3002W

Trunk Mask



22% perforation, Pin-Lock  
2.4mm RF-T100P-2001W  
3.0mm RF-T100P-3001W

Trunk Mask



22% perforation, Large  
2.4mm RF-T103P-2001W  
3.0mm RF-T103P-3001W

Trunk Mask



Plain, Large  
2.4mm RF-T102P-2003W  
3.0mm RF-T102P-3003W

Trunk Mask



22% perforation, Large  
2.4mm RF-T100P-2001W  
3.0mm RF-T100P-3001W

Breast Mask



22% perforation,  
for Supine Breast Board  
2.4mm RF-V102P-2320W  
3.0mm RF-V102P-3320W

For R10-Series Baseplates  
Civco HipFix System

## » X-Knife Violet Thermoplastics Mask

X-Knife Head & Shoulder Mask



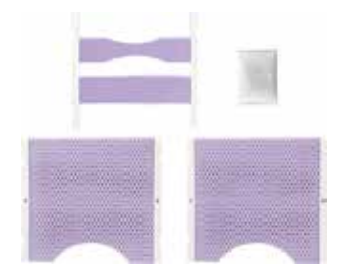
22% perforation, for Brainlab System  
3.0mm RF-X101P-3003W  
3.0mm RF-X101P-3007W (NSC)

X-Knife Mask



22% perforation, for Brainlab System  
3.0mm RF-X101P-3002W  
3.0mm RF-X101P-3006W (NSC)

X-Knife Mask



22% perforation, for Brainlab System  
3.0mm RF-X100P-3001W  
3.0mm RF-X100P-3002W (NSC)

## Thermoplastic Mask

### » E-Type Violet Thermoplastics

#### » Compactable masks for Elekta System

Triangular Head Mask



Reinforced  
3 point with Quickfaster  
2.4mm RF-Y100P-2002W

Triangular Head Mask



Reinforced  
3 point with Quickfaster  
2.4mm RF-Y100P-2003W

#### » Compactable mask for Elekta HeadSTEP & HipSTEP

Head Mask



22% perforation  
2.4mm RF-Y101P-2001W

Head & Neck & Shoulder



22% perforation  
2.4mm RF-Y102P-2001W

Head Mask  
Lengthened 5cm



22% perforation  
2.4mm RF-Y101P-2501W

Head Mask  
Lengthened 21cmt



22% perforation  
RF-Y101P-2921W

Chest & Pelvis Mask



22% perforation  
3.0mm RF-Y103P-3001W

### » V-Type Violet Thermoplastics

S-Shaped Head Mask



22% perforation, Pin-Lock  
2.4mm RF-C102P-2001W  
3.0mm RF-C102P-3001W

S-Shaped Head Mask



Reinforced, Pin-Lock  
2.4mm RF-C102P-2002W  
3.0mm RF-C102P-3002W

S-Shaped Head Mask



Reinforced Open Face, Pin-Lock  
2.4mm RF-C102P-2902W  
3.0mm RF-C102P-3902w

S-Shaped Head Mask  
Lengthened 9cm



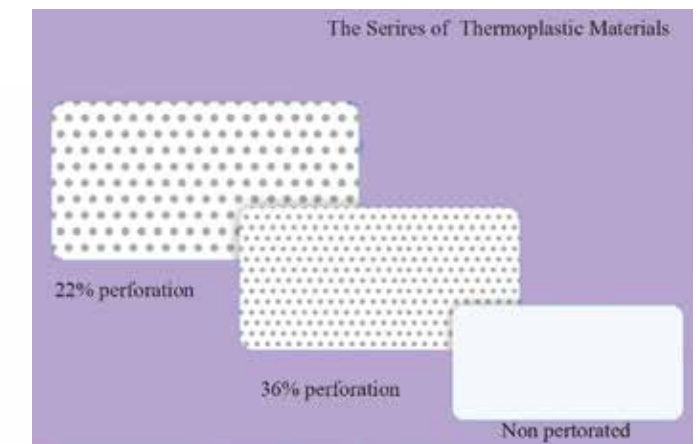
22% perforation, Pin-Lock  
2.4mm RF-C102P-2901W  
3.0mm RF-C102P-3901W

S-Shaped Head Mask  
Lengthened 5cm



22% perforation, Pin-Lock  
2.4mm RF-C102P-2501W  
3.0mm RF-C102P-3501W

### » Breast Mask M-type



# ELECTRON RAY BLOCK CUTTER

# ACCESSORIES

Model:YC-HM192



## Advantages:

1. No need the High-density Foam;
2. No need the Alloy Melter;
3. The operation environment is clean and hygiene;
4. The field process is high accuracy;
5. One-click operation, easy to learn;
6. The block can be cut at anytime;
7. Intelligent processing, no need the operator to wait on site.

## FEATURES

1. Cutting precision: block cutting accuracy can be controlled within 0.3mm, repeat positioning error is less than 0.1mm;
2. Cutting range: maximum cutting range is 20\*20cm;
3. Applicable Linac: All brands of Linac Electron ray Block;
4. Graphic input range of the Electron ray Block: 14\*22cm;
5. Power: AC220V;
6. Rated power: 2kw;
7. Motor power of the main knife: 1.5kw;
8. Maximum motor speed of the main knife: 12000RPM;
9. Shape size: 696\*500\*654mm.



## Part One: Block file collection system

Block graphics can input into the computer by handwritten drawing board, and the graphics file will be converted into the cutting file after the computer software opens it, and it is ready to cut. After verification, and start cutting.



## Part Two: Block software process system

The cutting machine is equipped with installation software at random, and the corresponding parameters should be set first after the software is installed. This software can scale up and trim block graphics, and can also preview the processing and real-time monitoring of the processing process.



## Part Three: Block cutting system

Cutting machine can be placed on the table, an also can be placed on the ground, there are wheels on the bottom of the cutting machine, so it is easy to carry. The whole frame is made of aviation aluminum with high strength and beautiful appearance.

## Part Four: Standard Block

We provide standard lead, and the user only needs to fix the lead on the cutting machine to process it.

## OPERATION INTRODUCTION

## PROCESSING FLOW

1

### Electron ray block file collection

Use a drawing pen to draw the shape outline of the block file, and then transfer the graph file to the computer through the data line of the drawing board.



2

### Block file adjustment

Adjust file proportion as needed, or make local trimming of the block file.

3

### Fix the lead block

Place the standard electron ray lead block on the cutting machine surface and fix it.



4

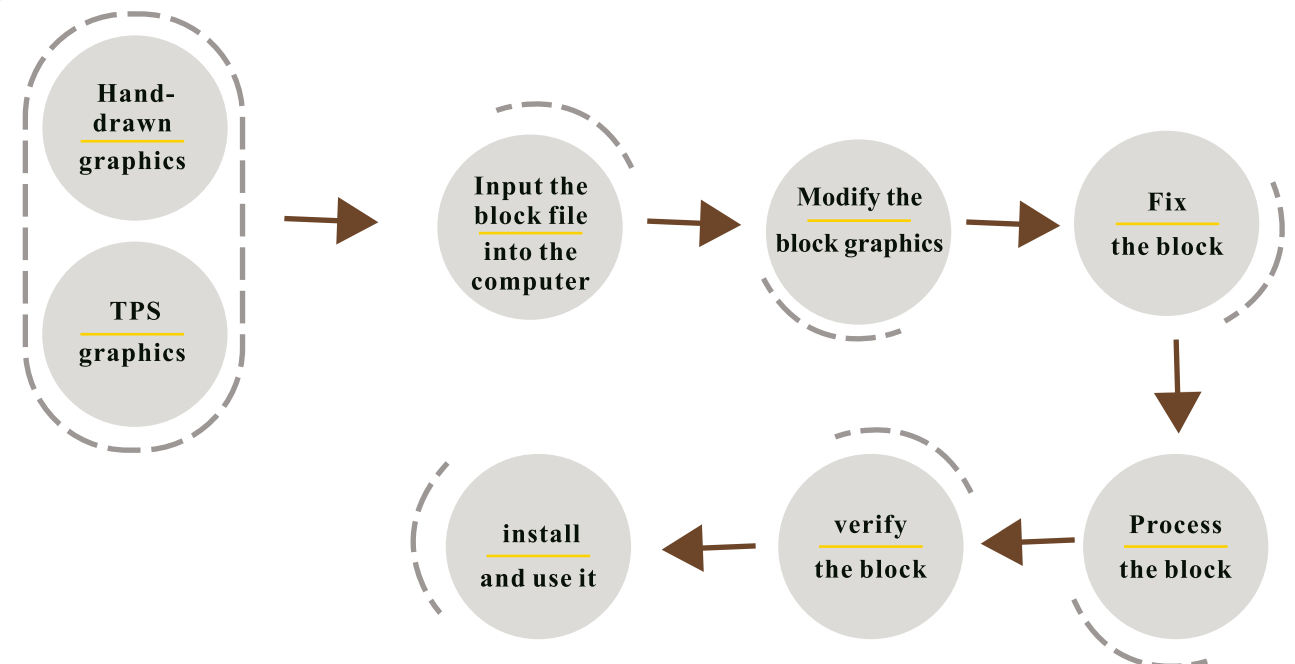
### Start processing

Press the start button and start processing the block.

5

### Processing completion

Remove the block and finish processing.



## ACCESSORIES

- ◆ Cutter 1pc
- ◆ Driver card 1pc
- ◆ Soft ware 1set
- ◆ connecting line 1pc
- ◆ drawing board 1pc
- ◆ computer 1pc
- ◆ Electron ray standard lead Block 1set
- ◆ Instruction book 1pc
- ◆ Parting tool 1 set



computer

Electron ray standard lead Block



Industrial Cleaner  
(need to be purchased additionally)






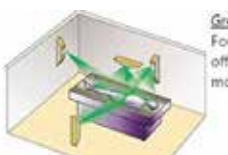
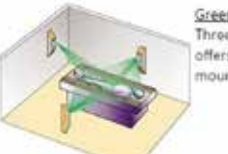

# Laser

## » Fixed & Movabel Laser



MICRO™ DIODE LASER



 <p><b>Red Fixed Laser Systems</b> Diacor offers three configurations for our Centralite red diode lasers that address common treatment requirements and make ordering from Diacor fast and easy.</p>	 <p><b>Red Fixed Laser LS-1</b> Four fixed laser system</p>
 <p><b>Red Fixed Laser LS-2</b> Three fixed laser system.</p>	 <p><b>Red Fixed Laser LS-3</b> Three red fixed laser system with overhead mount.</p>
 <p><b>Green Fixed Laser System</b> Green lasers deliver the same accuracy as red diode lasers while projecting an image that is easier to see across a variety of skin tones.</p>	 <p><b>Green Fixed Laser LS-4</b> Four green laser system that offers vertical and horizontal mounting options.</p>
 <p><b>Green Fixed Laser LS-5</b> Three green fixed laser system offers horizontal and vertical mounting options.</p>	 <p><b>Green Fixed Laser LS-6</b> Three fixed green laser system that offers two cross lasers and ceiling mount.</p>

## » Technical Parameter

Each laser's parameters are as following:

- » Laser diode
- » Line Width:  $\leq 1\text{mm}$  (in the distance 3~5m)
- » Line Length  $\geq 2\text{m}$  (at 3 m distance)
- » Wavelength: 635nm

# Simulation Postioning Products

## » Low Melting Point Alloy



- » The melting point of the alloy is 70°C
- » It is 9.7kg/cm<sup>3</sup>
- » Silver color
- » Adopted by the international standard that is 99.99% high purity of material to produce

## » Mobile Cart for Lead Mold



- » Stainless steel material.
- » Mobile cart for storing lead mold.
- » Universal wheel on the bottom.
- » The cart can hold up to 200kg

## » Blocking Tray



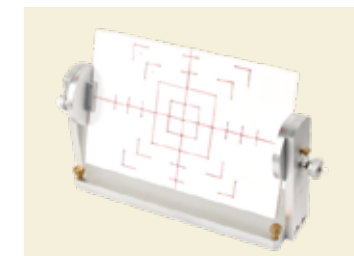
- » Non-Porous
- » Acrylic material
- » Please provide samples

## » MOULD ROOM TABLE



- » Hand switch for up and down movment
- » Movment range frommin 60 cm from floor level maximum 90 cm
- » Brakes on all wheels
- » Handling weight 200KG
- » Fixed indexing bars on the table

## » Isocenter Measuring Instrument



## » Kodak EDR-2



## » GAFCHROMIC EBT FILMS





## Simulation Positioning Products

### » Verification Cabinet for Lead Block



- » The light source can be accommodated freely, and the center vertical point can be found conveniently
- » The distance between the light source and pallet can be adjusted up and down freely
- » The pallet can be regulated according to the size of the blocking trays
- » The guiding rail can slide the blocks more freely even carrying 100kg lead

### » Manual Hot-wire Cutter



- » Used for x-ray treatment
- » The maximum distance between light source and film is 160cm
- » Balance block on both sides are used for balance adjustment
- » here are three different lengths of drawing arms
- » The adjustable device on the bottom can be adapted the uneven ground

### » Water Bath



- » Stainless-steel material:
- » Shape size: 650\*600\*200mm

## Simulation Positioning Products

### » Stamps for Radiotherapy



- » 40 pieces in per set
- » Including all body organ shapes
- » Packed in Aluminum Box

### » Electrical Convection Oven

For softening thermoplastic material

- » Heat circulation, convection principal
- » Touch Display for temperature adjustment
- » Simple...Easy...No Preheating
- » No more wet towels and steamy treatment rooms
- » Cleaner and safer than waterbaths
- » Reduced risk of bacterial contamination

- » Space-saving
- » Compact design
- » Non-stick surface
- » Insulated case
- » Dry heating eliminates the inconvenience of using water
- » Digital temperature setting in Celsius or Fahrenheit
- » Auto shut-douse after 2 hours—Turns off after 6 hours.
- » Finish, White baked enamel (on cold rolled steel),stainless steel trim Outer dimensions: 31x23x5.5 in Weight:46 lb (21 Kg) Voltage:110V and 220V



## Simulation Positioning Products

### » Lead-Mould Cabinet



- » Stainless steel material
- » It has exhausting device, so it can protect the safety of the operator
- » Shape size: 600•800•1000mm

### » Cooling Plates



### » Miscellaneous



TUNGSTEN EYE SHIELD

### » Plain Cushion



### » Heat gun



TESTICLE SHIELD



## Simulation Positioning Products

### Total Body Irradiation Stand For Photons Or Electrons



### Specifications

- Overall Size: 45" W x 43 1/4" L x 93" H (114 x 110 x 236 cm)
- Overall Weight: 202 Pounds
- Platform Size: 38" W x 31" L (97 x 79 cm)
- Adjustment from Floor: 3" (7.6 cm) and up in 1" (2.5 cm) increments

### Optional Accessories

- TBI Chin Rest Assembly
- TBI Lung & Kidney Adjustable X-Y Blocking System
- Safety Harness
  - Attaches to the top stabilizer bar and prevents a patient from falling
- Small Mobile Beam Spoiler Frame for TBI Stands
- Beam Spoiler
  - Also known as beam degrader, available in 3/8" (1 cm) or 1/2" thick (1.3 cm) acrylic or polycarbonate.
  - Dimensions: 38" W x 96" L (97cm W x 244cm L)
  - Acrylic Density: 1.185 g/cc
  - Polycarbonate Density: 1.2 g/cc
- Tungsten Eye Shields with Aluminum Caps
- CT/MR Dummy Eye Shields
- Wedge Tray Flattening Filter for TBI, 6 MeV, Varian III
- Wedge Tray Scale for TBI Isodose Curve, Varian III

## Patient Marker

### Patient Marker



1,1.2,1.8,2,2.5 MM,DIA



Blue CT Markers



Cross Markers



Multimodality markers



Line Marker



CT Mark Wire, 2.0mm Wire



Sure Mark



Vaginal Dilator



Gold fiducial markers

### STRAIGHT & CURVED BODY CALIPER



The Rectal Marker is a flexible tube packed with lead balls spaced at 1 cm intervals from center to center. The CT Rectal Marker has Teflon balls with same spacing. The Rectal Marker is used to accurately obtain both the rectum position and magnification by counting the balls. This determines the rectum location relative to the radiation field. An adjustable anus marker can be utilized during simulation or port filming. The Rectal Marker can be used in the vagina or as an external marker

## Local Dosimetry Items

### » Digital Barometer



### » Dell Laptop



### » 1D PHANTOM



### » Brass Build Up Caps



### » D10/D20 phantom



### » Analog Barometer and Thermometer



## Dosimetry Items

We are the Authorised Supplier for Standard Imaging

### QA BeamCheckerPlus

This daily device combines our long established devotion to accuracy with our expertise in ion chambers, phantoms and electrometers. All in One.

### Software-Free Operation

- » Does not need to be controlled via PC
- » Immediate Pass/Fail results

### Automatic Energy Detection

- » Measure energies in any order
- » Data is automatically saved and the device readies itself for the next reading in 10 seconds

### Wireless Operation

- » Versatile for wireless, real-time data collection using software interface and instantaneous results
- » Fast rotational QA is ideal for IMAT, VMAT, Tomo Therapy and dynamic wedge tests



### MIMI Hexa Check

### Repeatable Accuracy

- » The phantom holder is secured into couch isocenter alignment, while locking mechanisms for offset angles ensure accuracy every time

### Easy to use

- » Fits seamlessly into your workflow as an extension of your 3D IGRT QA routine

### A Natural Addition

- » Designed for use with the MIMI phantom, also compatible with the Universal Lock Bar and PIPSpro software



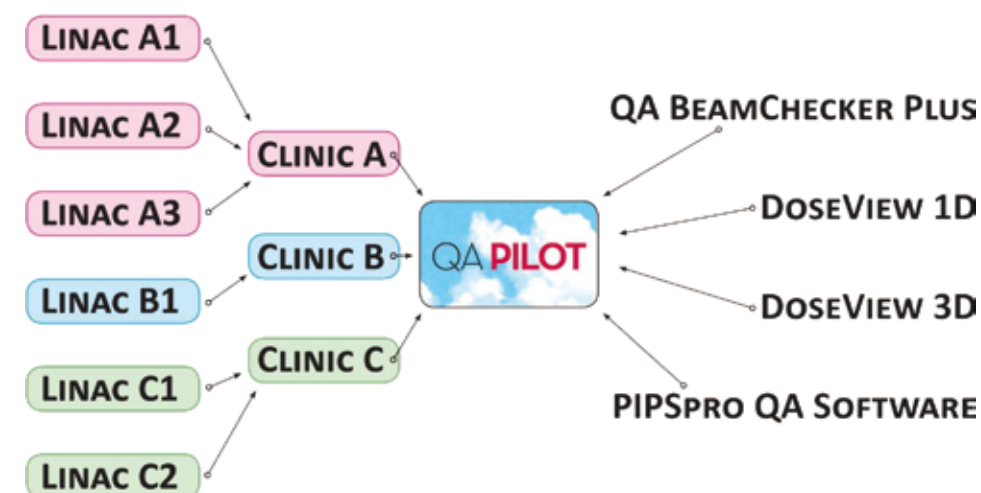
## Dosimetry Items

- » Screenshot of fusion page showing several ways to view the fusion for verification. The red is a hand drawn area marked for the system to ignore, the level on the HexaCheck baseboard, which may hinder the fusion



### QA PILOT

- » 453 air-vented pixel ionization chambers with optimized 5mm spacing allows for accurate machine QA including dosimetric, mechanical, gating and MLC performance testing. Parallel readout from independent electrometers allows for fast measurements



- » Control what various users and sites can see and do
- » Use the Equipment Manager to store all QA products in one spot including recalibration reminders.
- » Select and organize QA tests based on your needs
- » Schedule your QA with reminders
- » Create custom tests
- » Create baseline and tolerances

### NEW Results Dashboard

- » Overview of the last analysis results for a particular machine
- » Pass, Fail, and Alert results
- » Quick and easy to review

Test Name	Approval	Completed Date	Result	Alert	Pass	Fail	Alert	Pass	Fail	Alert	Pass
Light Penetration Factor	Pass	2015-10-05	Pass								
Axis Position Accuracy	Pass	2015-10-10	Pass								
Collimator Rotation Accuracy	Fail	2015-10-14	Fail								
Rotation and Mechanical Consistency	Pass	2015-04-08	Pass								
Leaf Travel Speed	Leaf Based - Leaf Speed	2015-10-14	Pass								
Leaf Position Accuracy	Leaf Based - Sliding Window	2015-10-14	Fail								
Leaf Position Accuracy	Leaf Based - Stop and Start	2015-10-14	Pass								
Leaf Position Accuracy	Leaf Based - Repeatability	2015-10-14	Pass								
Segmental MLC	Leaf Based - Stop and Start	2015-10-14	Pass								
Moving Window MLC	Leaf Based - Sliding Window	2015-10-14	Pass								
QA Test	Approval	Completed Date	Leaf Position	Control	Warning	Alert	Pass	Fail	Alert	Pass	Fail
Plan 10 Imaging	Image QA	2017-03-19	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline
QA Test	Approval	Completed Date	Leaf Position	Control	Warning	Alert	Pass	Fail	Alert	Pass	Fail
Plan 10 Imaging	Image QA	2017-03-19	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline	No Baseline
QA Test	Approval	Completed Date	Elementary Calibration	Control	Warning	Alert	No Consistency	Warning	Alert	Pass	Fail
Core Beam CT	Image QA	2016-10-24	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

## Dosimetry Items

### PIPSpro SOFTWARE

#### NEW Results Dashboard

- » Overview of the last analysis results for a particular machine
- » Pass, Fail, and Alert results
- » Quick and easy to review

Test Name	Application	Assigned Date	Status	Operator	Machine	Energy	Field Size	Depth	Distance	Temperature	Humidity	Pressure	Barometric	Altitude	Latitude	Longitude	Time
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														
QA Radiation Panel Constancy	Radiation Light Panel	2019-10-08	Pass														

### PIPSpro PHANTOMS

- » PIPSPRO software analyzes the QC-3, QcKV-1, FC-2, and Stereotactic phantoms.
- » The calibrated QC-3 and QcKV-1 phantoms allow you to compare your results to similar machines worldwide.
- » PIPSPRO is also compatible with Catphan phantoms and the LEEDS test tool included with Linacs



### WATER PHANTOM FREE

- » Compare results to water phantom baselines and achieve accuracy within 0.5%.
- » Perform accurate monthly machine QA without the hassle of a water phantom



### PAIR WITH SOFTWARE FOR LIGHTNING FAST REPORTS

- » QA CrossChecker automatically compares energy measurements with their corresponding reference values. Test reports are created according to user-defined tolerances, and include reference values, allowing you to easily identify changes in your machine.

### DoseView1D

#### Easy Operation with Handheld Pendant

- » Establish origin position and return to origin with the press of a button.
- » Three convenient positioning modes: fast, slow and step
- » One-touch toggle between cm/mm.

### Water-Equivalent Bracket Fits Range of Detectors

- » Adaptable chamber bracket fits most thimble ion chambers and rigid stem parallel plate chambers



### Intuitive Data Collection with DV1D Software

- » Expedite TG-51 and TRS-398 compliant data collection.
- » Remotely adjust settings, conduct measurements and view data in real time.
- » Automatic collection of profiles for all energies
- » Automated ratio-based acquisition when using the SuperMAX or two MAX 4000 Electrometers.

### QA CrossChecker

#### OPTIMIZED DETECTOR POSITIONING FOR KEY LINAC QA ROUTINE

QA Pilot's cloud-based platform gives you access to your QA without manual spreadsheets or multiple programs. Data from the QA BeamCheckerPlus is automatically uploaded to your daily file for each machine

## DoseView 3D

- » The DoseView3D is a 3-axis water scanning phantom that fuses robust hardware with easy-to-use software for superior beam commissioning and quality assurance measurements

## Built for Consistency

## Robust Construction

- » Manufactured with a rigid, one-piece cast aluminum frame and stainless steel leadscrews

## Precise, Three-Point Leveling

- » Three leveling screws are mounted above the scanning volume, making leveling easy even when the phantom is filled

## Fewer Cables, Faster Setup, Better Data

- » Reduced detector cable length lessens settling time and opportunity for cable leakage

## Durable, Accurate Stepper Motors

- » 5 stepper motors maintain superior precision over the phantom's lifetime

## Convenient, Wireless Pendant

- » An intuitive wireless pendant allows for easy vault operation without restricting movement

## Automatic Phantom Drain

## Keep cables organized during testing

- » Cable carriers keep the motor connections compact and unobtrusive

## Reference Detector Holder

## Sample Detector Holder

- » Position holders horizontally or vertically while maintaining a consistent origin location using the Detector Alignment System



## Dosimetry Items

### EXRADIN DETECTORS

#### » A28

The Model A28 Chamber features exceptional omni-directional spatial resolution for relative dosimetry scanning in water phantoms and use in minute field measurements. When combined with the DoseView3D, the A28 allows for faster set-up while providing ideal scanning data.



#### » D1H & D1V

Maximize signal and spatial resolution and minimize angular dependence for consistent, accurate small-field stereotactic measurements.



#### » A4

Account for linac output variation in beam scanning with the Exradin A4 spherical ionization chamber. The A4 provides a stable and accurate out-of-field reference signal



#### » NEW! W2 Scintillating Detector

This near-water equivalent detector boasts the ability to be used in a water tank. Available with both a 1x1mm and 1x3mm exposed fiber length, the W2 has no dose rate or energy dependence, minimal temperature dependence and  $kQ=1.000$ .



#### » W1 Scintillating Detector

Unrivaled near-water equivalent characteristics produce a more natural dose measurement. When combined with the SuperMAX, the W1 eases data collection by eliminating many measurement corrections required with other detectors.



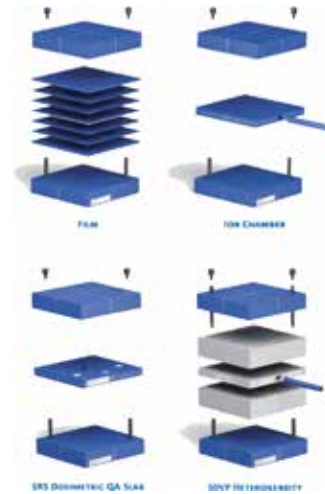
## SuperMAX ELECTROMETER

- » The SuperMAX Electrometer combines high accuracy, reference grade measurements, wide bias voltage with a revolutionary touch screen interface and a host of advanced measurement features.
- » Two Independent Measurement Channels
- » Built-In Detector Library
- » Easy-to-Use Interface
- » Store Data Collection
- » ExradinW1 Scintillator Integration

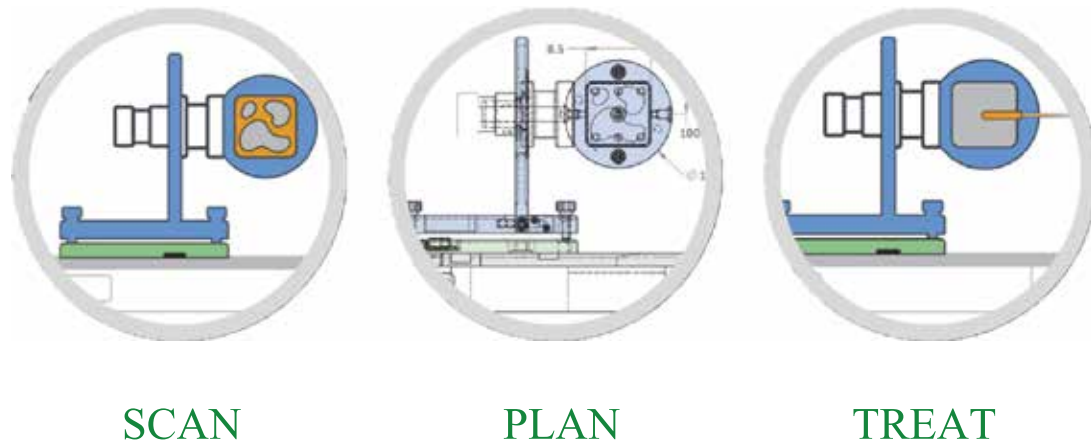


## Stereotactic Dose Verification Phantom

- » Ion chamber and film dose measurements in a water-equivalent phantom designed specifically for stereotactic radiosurgery and recommended by Accuray.
- » Endorsed by CyberKnife users
- » SDVP Heterogeneity insert lung equivalent material with gold fiducials to simulate small tumor
- » 2 cm Blue Water ion chamber slab with cavity for chamber
- » SRS Dosimetric Slab provides complete geometric targets



## LUCY 3D QA PHANTOM



SCAN

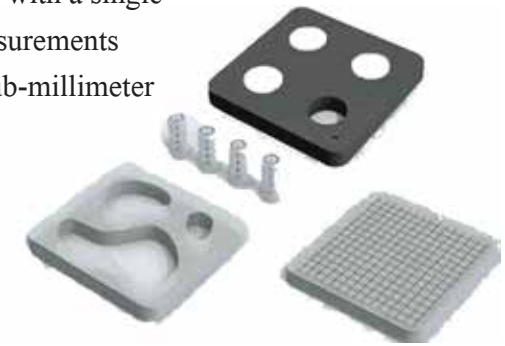
PLAN

TREAT

## LUCY

### » Confident Image Fusion

Use Lucy to verify the accuracy of image fusion with a single phantom. Fused images can be compared to measurements described in the Lucy specifications to ensure sub-millimeter precision.



### » Minimize Transfer Errors

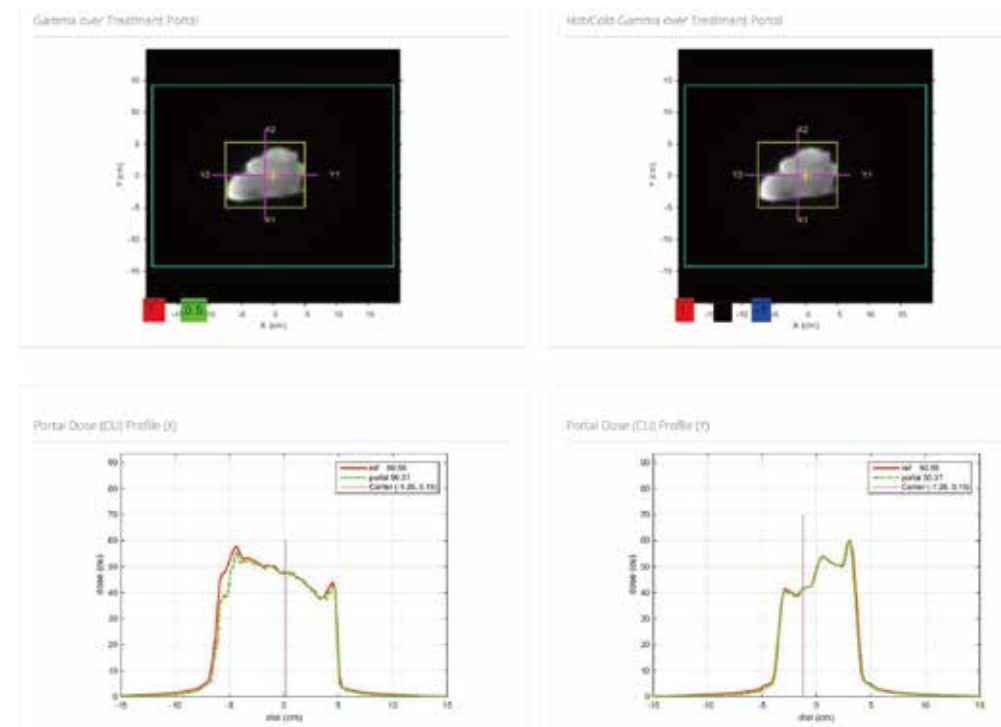
Industry-leading manufacturing tolerances provide incomparable accuracy when contrasting the Lucy volumes, geometry and distance measurements to images in treatment planning software. Since these measurements should be evaluated at each step of the imaging process, these rigid tolerances can drastically reduce cumulative uncertainty.

### » Simple Patient Dosimetry

The dosimetry inserts for the Lucy quickly obtain absolute, relative and point-dose dosimetry measurements at isocenter and at exact positions off isocenter. This allows for a seamless evaluation of dose as well as geometric accuracy, including CBCT and MV/kV alignment.

## ADAPTIVO PRE-TREATMENT

- » No phantom needed. Verify plan delivery
- » Analysis & reports are generated automatically.
- » Alerts will be sent out if they are triggered by customizable tolerances

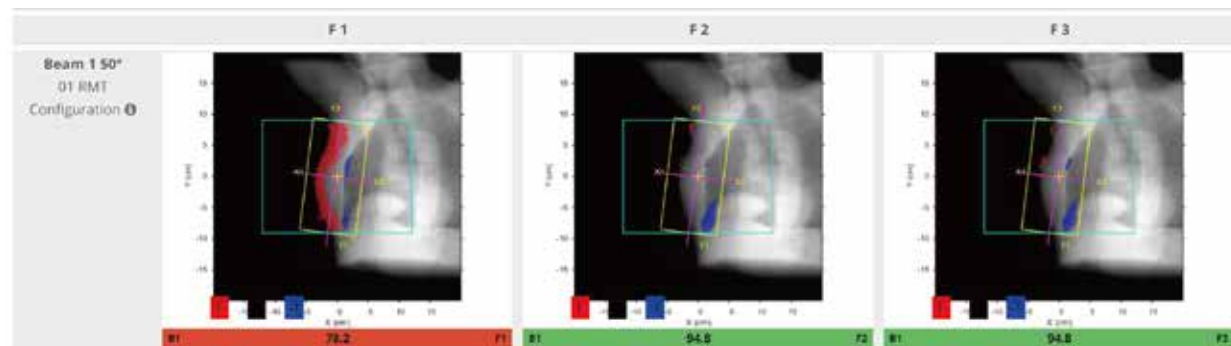


## ADAPTIVO IN-VIVO

View per beam metrics, per fraction metrics, and gamma metrics.

Review daily patient position and daily patient geometry.

Account for daily couch shifts and detect patient setup errors



SOFTWARE Software for accurate and independent verification of monitor units, dose, and overall validity of standard, IMRT rotational or brachytherapy plan

### » Fast, Precise

Unprecedented accuracy from the patented "3-Source Model" algorithm, easy standard plan MU checks and uniquely comparative IMRT Plan QA -no film,phantom or linac time required

### » Accurate IMRT Dose Calculations

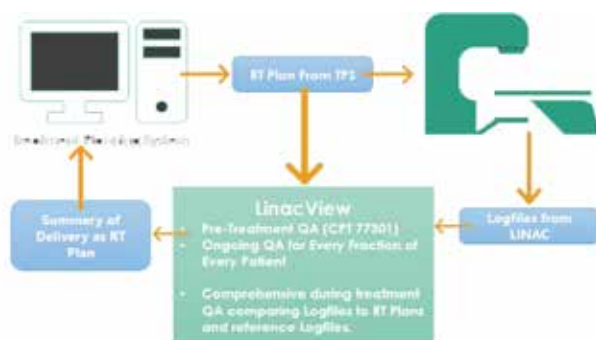
Import patient contours and specify regions of interest for precise patient-specific comparisons  
Exceptional accuracy from patented 3-Source Model

### » Easy MU Dose Calculations

Automatically calculate conventional plans.  
Create simple plans in a user-friendly, single-page interface

### » LINACVIEW

Automated, real-time analysis of every beam, every fraction, for every patient.

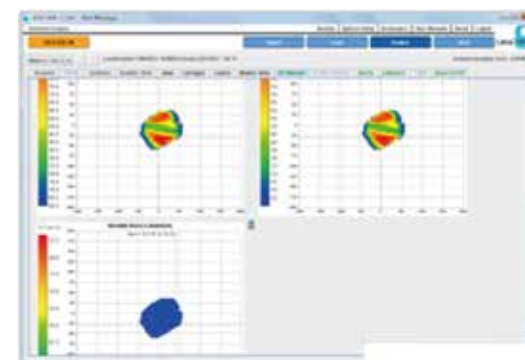


- » Supports Varian and Elekta logfiles
- » Tests just about every logfile parameter
- » Notifies in real-time for machine alerts and errors
- » Creates reports and RT Plans summarizing treatment series.

## Dosimetry Items

» Complete analysis RT plan fluence compared to calculated log file fluence provided

» Full analysis of each parameter tested in a convenient dashboard layout



- » Real time logfile monitoring for every patient with no impact on patient workflow
- » Therapists see dashboard results in real time during treatment
- » Physicists receive automatic email alerts for significant machine performance issues.
- » Automatic machine performance analysis for each fraction of every patient

## ADAPTIVO

» The next generation of Patient Dosimetry is here

» Pre-Treatment QA :

Pre-treatment plan delivered in-air to the portal imager  
Saves time, more accurate, higher resolution than arrays

» In-Vivo QA :

Monitors both beam delivery and patient position  
Automatically provides analysis and notifications  
Includes easy troubleshooting and report generation

» Adaptive QA :

Quantifies how changes in patient anatomy and setup will affect the cumulative patient treatment.

QUANTEC and RTOG-based evaluation parameters puts actionable data in the hands of doctors to improve patient treatment quality

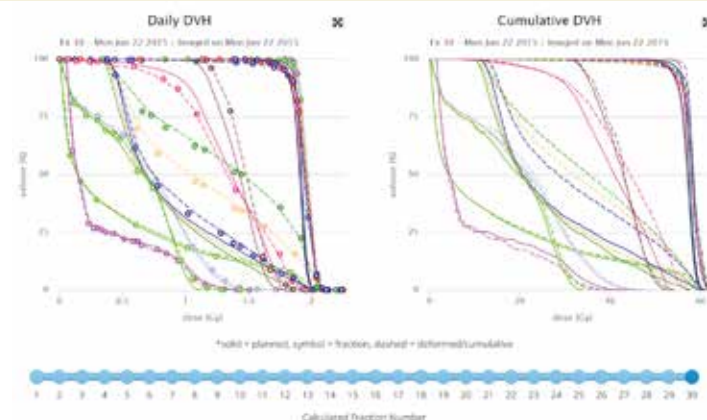


## Dosimetry Items

### ADAPTIVO ADAPTIVE

Review daily and cumulative DVH as well as dose delivered to targets and ROIs in any slice of axial, sagittal, or coronal axis. View dose distribution on complete CT image sets.

Compare daily and cumulative delivered dose to planned dose



### Standard Imaging Solutions for CyberKnife

- » QA BeamCheckerPlus
- » Stereotactic Dose Verification Phantom with Top Hat and Cradle
- » SuperMaxElectrometer
- » ExradinDetectors
- » PIPSproStereotactic Software
- » DoseView1D
- » QA CrossChecker
- » QA StereoChecker

### Automated Iris™ QA(Accuray)

- » Complete in 5 minutes
- » Scan quality data every morning
- » Measure profiles, field width, penumbra, flatness
- » Capable of detecting a 0.1 mm field size variation

#### » Filmless and Fast No film needed :

Achieve accurate results within 0.1 mm in less time -hours reduced to minutes -while saving money and potentially increasing patient safety. QA is done using the clinical pathway rather than the typical QA service mode for more realistic and faster results

### Treatment LocalizationSystem QA-TLS/TDS

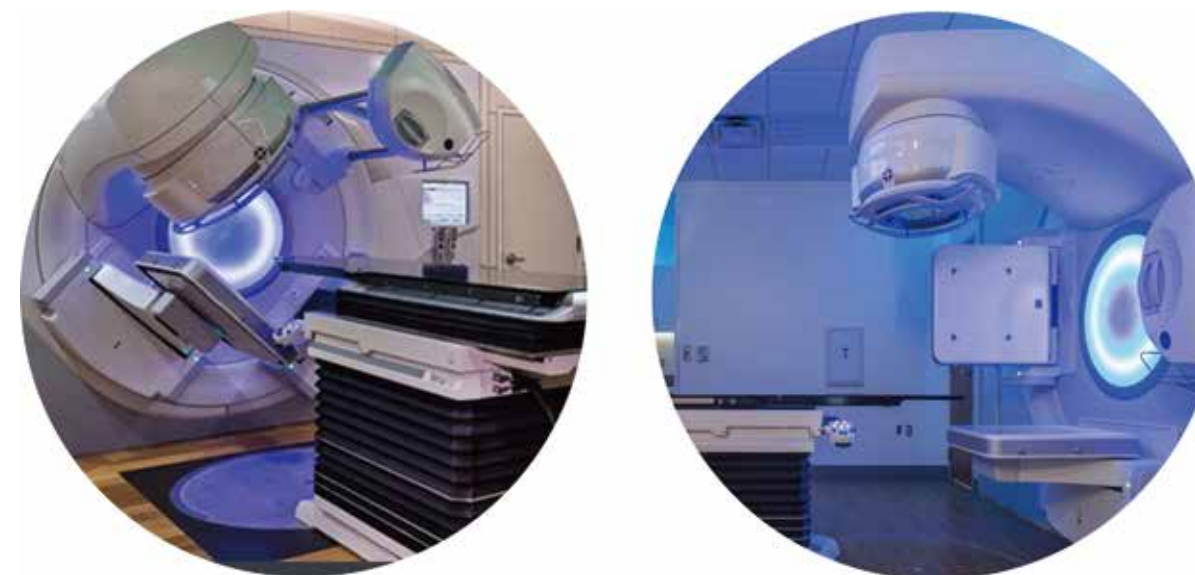
- » Complete in 5 minutes
- » Replaces film-based AQA and is faster and easier
- » Measure absolute eccentric and center deviation
- » Capable of detecting a 0.5 mm total translational offset

#### » Easy Method, Better Practice :

Designed to be used by both physicists and therapists, this easy method for complete daily CyberKnifeQA enables improved frequency and depth of QA practices, potentially improving clinical results

## Projects

### Projects



Once the decision to establish a radiotherapy facility has been taken, careful coordination and monitoring of the planning and timelines are key to a successful project. The professional team required to design, construct and commission a radiotherapy facility needs to be multidisciplinary, because the project not only involves the construction of specialized bunkers to house the radiotherapy imaging and treatment equipment, but it also needs to take into account the clinical workflow as well as anticipate non-disruptive expansion in the future

### » Services

- » INTERIOR DESIGNING AND CONSTRUCTION
- » EUROPIAN WOODEN FLOORING
- » EPOXY FLOORING
- » WALLMOUNT CUPBOARDS AND COMPUTER TABLES
- » WALL LIGHT PANELS
- » OVER HEAD CEILING
- » WALLPAER
- » SKY PANEL LIGHT

# EELEKTA MACHINE

## ELCTRICAL SYSTEM DESIGNING AND SITE EXECUTION OF VARIAN/ EEELEKTA MACHINE



### » Radation Safety Accessories

- » Lead Door
- » Lead Window
- » Lead Enclouser



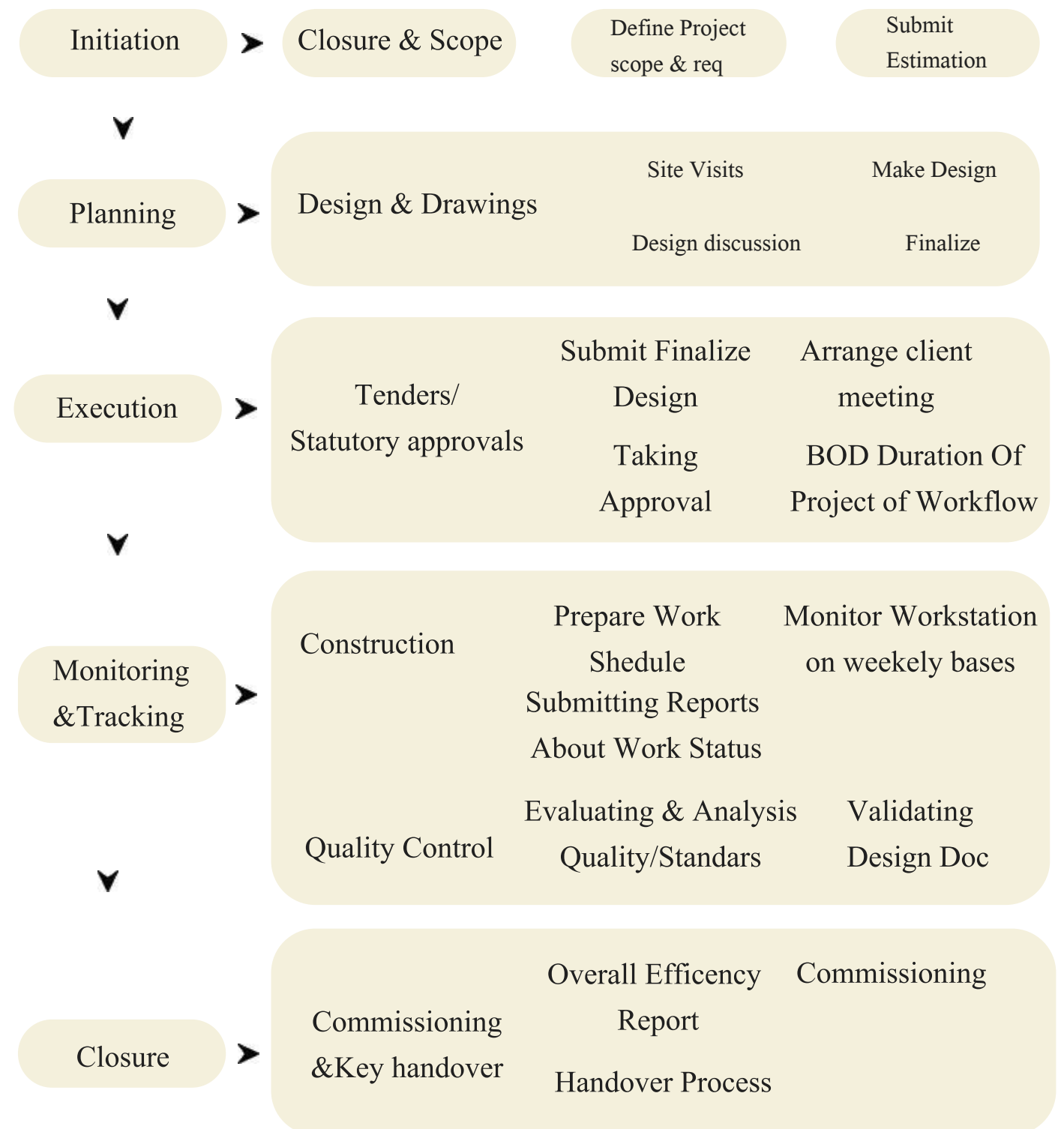
### » Bio-Medical Engineering Team



Radians team of biomedical engineers primarily work for customer services and they are also into the service department of radian in which 24\*7 customer support for hospital equipment service needs  
Call Us for BM team at 7337338316

# Construction Project Process Flow & Deliverables

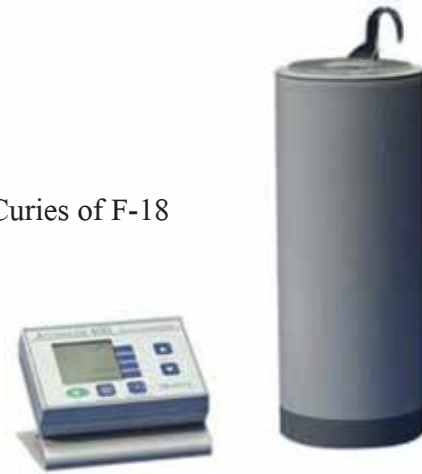
## Construction Project Process Flow & Deliverables



## Nuclear Medicine

### » AtomLab 400 Dose Calibrator For Pet & Beta

- » Pre-programmed for 88 most commonly used radionuclides
- » Large, easy-to-read backlit LCD
- » Small footprint economizes workspace
- » Ultra-fast response
- » Automatic range selection; ranges up to 40 Curies of Tc-99m or 10 Curies of F-18
- » Displays in Curies or Becquerels
- » Remote Ionization Chamber
- » Self-Diagnostic Software
- » Desktop or wall mount display
- » Two-year warranty
- » RS-232 bi-directional serial communications port



### » AtomLab 500 Dose Calibrator For Pet & Beta

The Atomlab 500 can be used for a wide variety of nuclear medicine, PET and radioimmunotherapy applications, with proven performance for fast, accurate measurements. The system consists of a low pressure ionization chamber, electrometer with extraordinary linearity and an auto-ranging color touch screen display. Additionally, there are advanced, but easy-to-use programs for nuclear pharmacy, radiochemistry and radiochromatography

#### Atomlab 500 Plus Dose Calibrator



#### Atomlab Wipe test Counter



### » AtomLab 500 Plus Dose Calibrator



- » Unique Positioning LED for accurate thyroid centering A First in Thyroid Uptake System Design
- » The combination of positioning LED and distance bar assure accurate, repeatable patient positioning and uptake measurements
- » Color touch-screen adjustable height monitor - medical grade tactile touch
- » 1024-channel multichannel analyzer
- » DICOM Interface (optional)

## Nuclear Medicine

### Radio Isotope Fume Hood



### Portable Shielded Isolator



### Generator Elution Cabinet



### PET Unit Dose System



### Mobile Lead Barrier



### Waste Bin



### Interlocking Lead Bricks



### Lead Goggles



### Lead Aprons



### Lead Gloves



### Absorbent Sheet



### Decontamination kit



## Farmer type Ionization

The semiflex chambers are designed for therapy dosimetry, mainly for dose distribution measurements in motorized water phantoms

They have short stem for mounting and a flexible connection cable.

The nominal useful energy range is from 30 KV to 50 MV photons and 6 MeV to 50 MeV electrons.

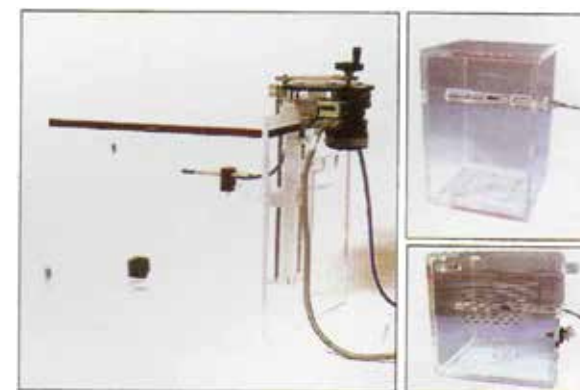
The wall material is graphite with a protective acrylic cover.

The guard rings are designed up to the measuring volume. An acrylic build-up cap for inair measurement in  $^{60}\text{Co}$  beams is included with each chamber, as well as a calibration certificate for calibration in absorbed dose to water or in air kerma



Plastic Water Slabs (Solid Water)

- Agrees with true water within 0.5%
- $\pm 0.04\%$  above 7 MeV
- Allows for easy and accurate calibration checks
- Thickness from 1mm to 70mm
- Sizes 20x20, 25x25, 30x30 and 40x40cm
- Similar slabs are available in acrylic as well



## Nuclear Medicine

Model 14C Survey cum



Digital cutie pie survey meter



Monitor 4 Survey Meter



Inspector Survey Meter



Digital Area Monito



Hand and Foot Monito



Digital Entrance/Exit Area Monitor



Tungsten Syringe Shields



Syringe Holde



Node Seeker Wireless Gamma Prot



PET Dose Drawing System



'L' Bench (3-12 mm lead thickness)



### Water Phantoms

- Available in wide variety and application needs
- Fixed depth chamber holder; 30cm<sup>3</sup> or any size
- Variable depth-2D; with crank assembly, any size
- D10xD20 water filled phantom
- Dual chamber water phantom
- Motorised 2D phantom and more

## Nuclear Medicine

Bar Phantoms



Flood Phantom



Thyroid Uptake Neck Phantom



New PET-CT Phantom



Jaszczak SPECT Phantom



Tec-Control Chromatography



## Nuclear Medicine

Radiation Fume Hoods



Radiation Shielding Injection Cart



FDG Syringe PIG



Rod Sources



Rectangular Co-57 Flood Sources



Cs-137 Check Sources



Tungsten Alloy Pot Medical



Neutron Shielding Lead Doors



Tungsten Alloy Radiation Container



PET Syringe Shield



Mobile L-block Shield Nuclear Shields



Syringe Shield Tungsten



Positioning Wedges



Forceps



Niptong 12" Et 36"



## Nuclear Medicine

## Nuclear Medicine

Safety Mobile Lead  
Glass Barriers



Shielded Syringe Carrier  
Lead Lined



Radiation Protection  
Injection Shield



Decay Tank



Fluke 451b



PET Phantom  
NEMA 2007/IEC 2008



Pedal Operated  
Shielded Waste Bin



Lead Pig  
Container



Tungsten Alloy  
Storage Container



Thyroid Apron



Compact PET Holder  
Shipping System



Tec-control  
Aluminum  
Breakthru Kit



SINGLE DOSE  
TUNGSTEN CONTAINER



Tungsten Heavy Alloy  
Unit Dose Pig Syringe



Tungsten Pet Pig  
Syringe Shield



Caution Signs Et Labels



Injection / Resting Chair



Dose Calibrator  
Vial Ref. Sources

