

SHINVA 新华医疗

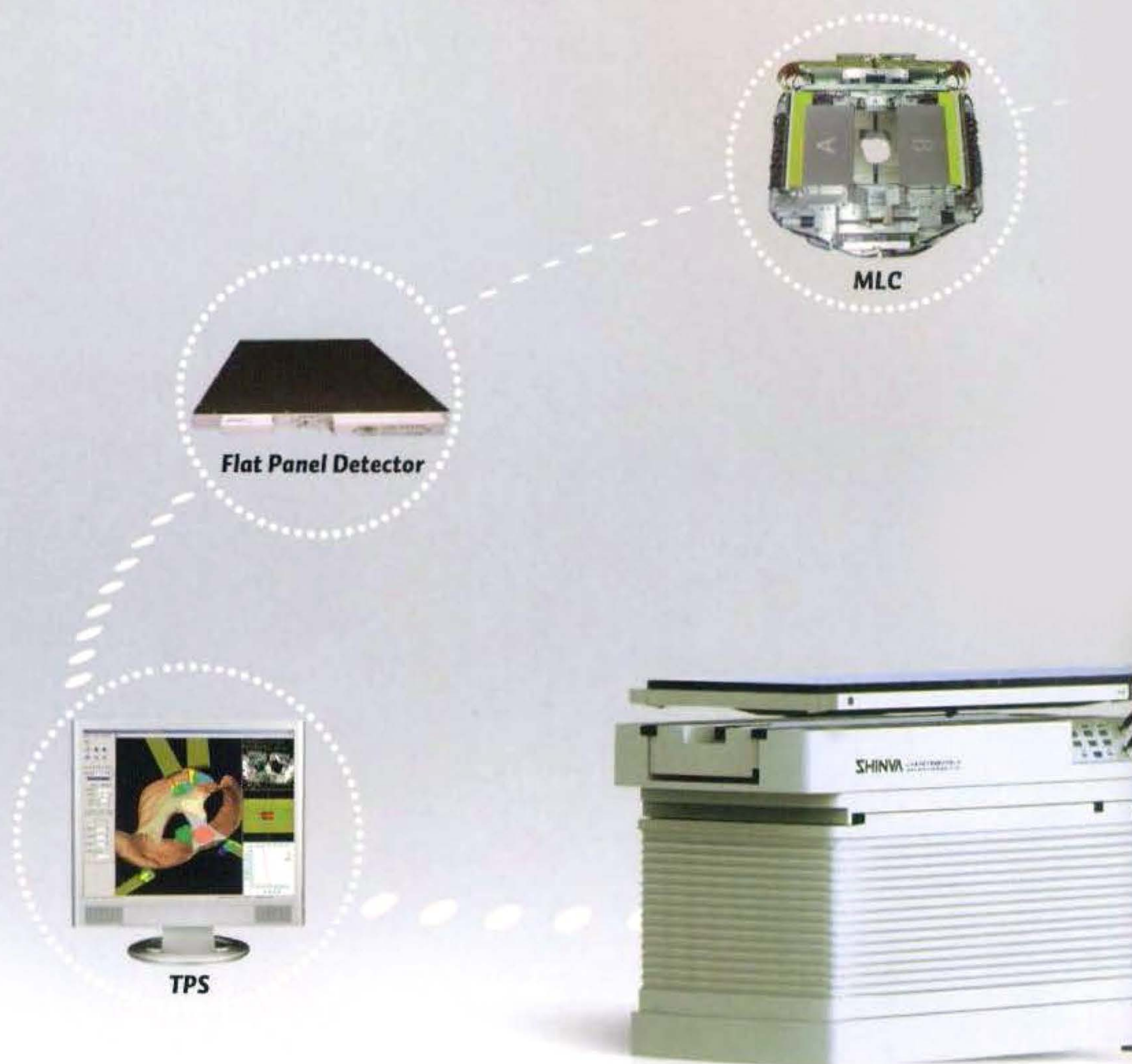


For Health Be Credible >



# Medical Radiotherapy Equipment

**SHINVA 新华医疗**



## **EPID based Image-Guided Radiation Therapy Solution**

Shinva Medical provides advanced EPID based image-guided radiation therapy technique to verify patients and tumor position and thus able to locate the tumor more precisely pre and during the treatment. It allows users to customize each patient's margin between CTV and PTV and therefore to increase the quality of treatment, protect normal tissues, reduce side effects, and improve the quality of life for patients. This system consists of medical linear accelerator, internal motorized MLC, 3D treatment planning system and image guidance system, and is able to deliver conventional radiotherapy, SRT, 3D-CRT, IMRT and IGRT.



## *EPID based Image-Guided Radiation Therapy Solution*

### Features

- The 16"×16" flat panel detector can create large field size and high resolution MV images.
- With highly precise and flexible robotic arm, the detector will move to place rapidly and automatically with one press.
- Support for MLC field verification, leaf shape and collimator shape visualization.
- 2D/2D image registration can generate X, Y and Z direction error.
- Support for import and export of DICOM 3.0/RT data.



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Flat Panel Detector



MLC

## XHA1400 Linear Accelerator



TPS

*Conformal and  
Intensity-modulated  
Radiation Therapy  
Solution*



## **Conformal and Intensity-modulated Radiation Therapy Solution**

This system consists of XHA600D accelerator, 3D TPS and internal MLC, enabling users to deliver conformal and intensity-modulated radiation therapy in a more convenient way. This system is the ideal clinical choice for conformal and intensity-modulated radiotherapy delivery.

### Features

- Dose rate up to 400cGy/min with high stability and reliability.
- Carbon fiber couch top without metal frame to achieve low reflection & scattering radiation and reduce radiation attenuation.
- Integrated motorized MLC conforms to the target volume perfectly and rapidly.
- With inverse planning technique.
- It is able to deliver stereotactic radiotherapy, 3D-CRT, step and shoot technique, sIMRT and conventional therapy.



*HDA600D Linear Accelerator*

## **XHA600D Linear Accelerator**

### Features

- The accelerating tube adopts advanced technology and owns intellectual property right.
- Providing X-ray with 6MV energy.
- High dose rate up to 400cGy/min.
- Four collimators move independently with maximum over-travel distance 10cm.
- Precise treatment couch with carbon fiber top.
- CE-marked product and exported to several countries.
- With optional configuration, it is able to deliver stereotactic treatment, 3D-CRT, as well as conventional therapy techniques.

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*SL-IP Simulator with  
Dynamic Panel Detector*





## ***SL-IP Simulator with Dynamic Panel Detector***

SL-IP simulator integrates treatment plan design, verification and simulation as a whole, to meet the modern IMRT need. Equipped with large-field amorphous silicon flat panel, SL-IP provides digital and high resolution DR images, and performs precise simulation and treatment verification.

### Features

- Integrated user-friendly control interface is easy to use.
- 43cm×43cm flat panel detector provides the largest view among fellow products.
- Offering high resolution images and large dynamic range.
- Possessing pulsed fluoroscopy, digital radiography, continuous acquisition & playback and automatic exposure control functions.
- SL-IP simulator is able to perform MLC plan design, MU calculation, image registration and plans verification (e.g. MLC position verification).
- Treatment plan and images can be bi-directional transmitted and DICOM film print is supported.

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***SL-IE Simulator***

## **SL-IE Simulator**

Radiotherapy simulator is essential equipment for patient examination, treatment plan design & confirmation pre-treatment. It uses X-ray to determine target volume, radiation field and tumor sites. SL-IE is a fully digital radiotherapy simulator and suitable for modern radiation therapy.

### Features

- High isocentric accuracy.
- Providing high resolution images and enhanced fluoroscopy function.
- Asymmetric fields simulation technology can meet a broad range of patient positioning needs.
- Dual channel data acquisition and display system offers better safety.
- Software integrates image processing system and simulator control system.
- Standard DICOM RT interface achieves simultaneous transmission of positioning images and data.
- Integrated structure ensures high accuracy of gantry and couch positioning alignment.
- CE-marked product and exported to several countries.



*SL-ID Simulator*

## **SL-ID Simulator**

SL-ID simulator is controlled by computer and possesses asymmetric field simulation technique. Key components adopt top brand products, making the simulator more reliable with better performance.

### Features

- High isocentric accuracy.
- With abundant image processing functions and convenient patient information management system.
- Moving components possess automatic setting and digital readout display functions.
- All the movements can be controlled either by computer or the control console.
- Image processing functions include multi-frame display, region of interest display, zoom in & out, image rotation, image reversal, the length of a line between two points, negative processing, etc.

*XHD18F Afterloader System*



## **XHD18F Afterloader System**

XHD18F  $\gamma$ -ray afterloader system integrates radiology, radiophysics and dosimetry with computer technology, and thus extends Brachytherapy application from conventional gynecological tumor to nasopharynx, esophagus, bronchus, rectum, bladder, breast and pancreas tumor. It can also be used to deliver intraluminal, intraductal and interstitial treatment.

### Features

- Windows interface provides human-computer interaction and interactive menu.
- Offering Orthogonal, variable angle and isocentric coordinate reconstruction methods.
- Optimized calculation module can calculate and plot isodose curve automatically.
- High precision stepping motor and drive are used in source delivery, ensuring repeated source position accuracy  $\leq 1\text{MM}$ .
- Compulsory source evacuation device guarantees the independence of source delivery device.
- Various types of source applicators are well made and suitable for different clinical use.
- CE-marked product.



***FCC-8000F Cobalt-60  
Therapy Unit***

## ***FCC-8000F Cobalt-60 Therapy Unit***

Shinva Medical has over 40 years' history of manufacturing radiotherapy equipment with excellent performance and reliable quality. Designed according to the isocentric principle, Fcc-8000F Cobalt 60 therapy unit can meet a broad range of radiotherapy delivery requirements such as conventional, stereotactic and 3D-conformal radiotherapy.

### **Features**

- Maximum source activity is 8000 curies.
- Providing asymmetric field irradiation functions.
- Collimator with special structure offers high flatness and small penumbra.
- Friction driving ensures stable rotation and high isocentric accuracy.
- Patented compulsory source evacuation device offers high reliability.
- CE-marked product and exported to several countries.



*FonicsPlan  
Treatment  
Planning System*



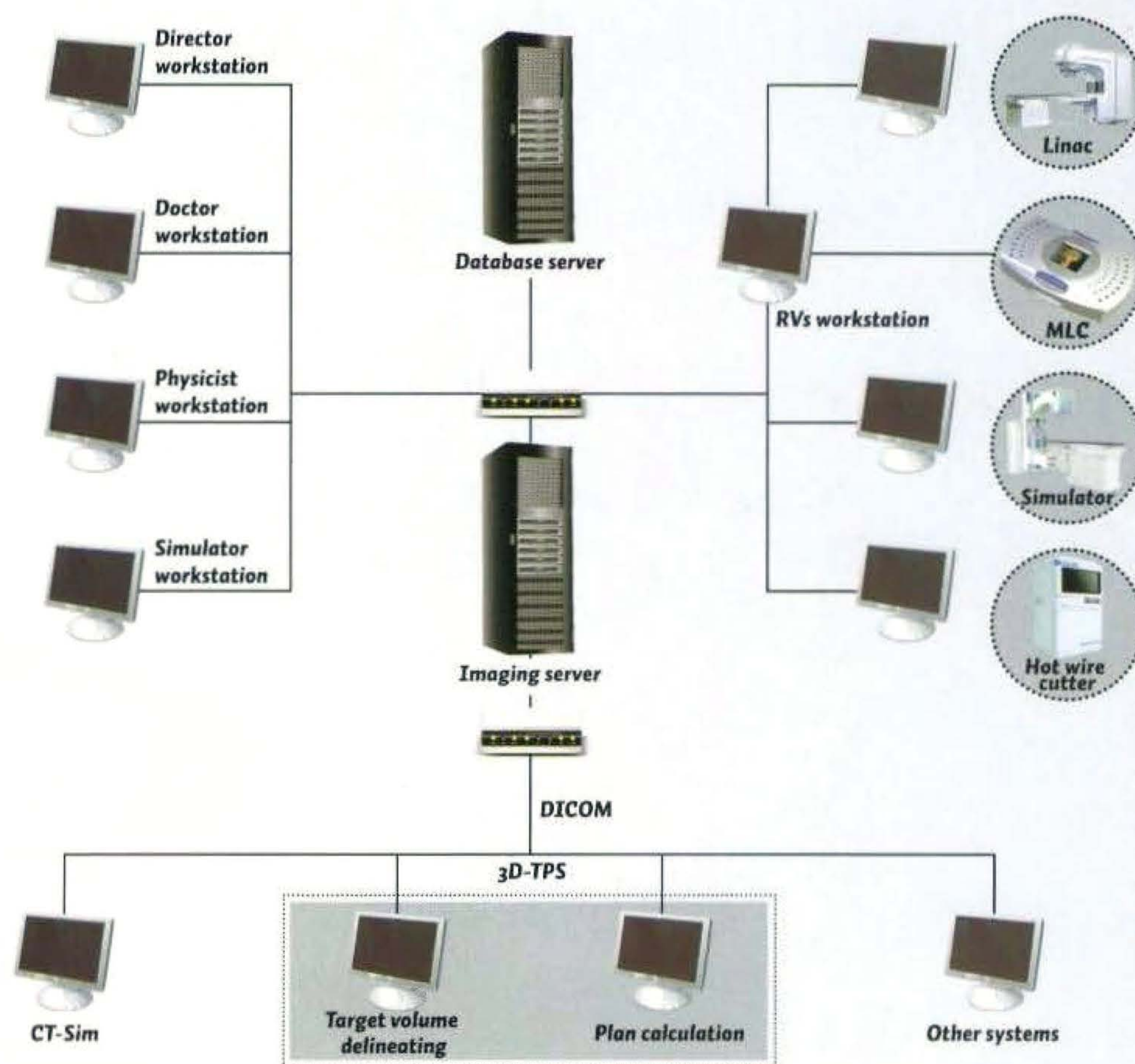
## **FonicsPlan Treatment Planning System**

Treatment planning system is the key part of modern precise radiotherapy system. FonicsPlan is a comprehensive treatment planning system with total intellectual property right for all kinds of treatments, including 3D conformal and intensity-modulated radiation therapy.

### Features

- Core technology with total intellectual property right makes it easy to upgrade and maintain.
- Multiple unique algorithm modules can achieve rapid and accurate dose and position calculation.
- Windows based system is user-friendly and easy to use.
- FonicsPlan can be used to design plans for conventional treatment, conformal treatment, X knife and inverse IMRT.
- Images of CT, MRI and DICOM 3.0 can be imported and processed in FonicsPlan.

# Radiotherapy Networking Information System

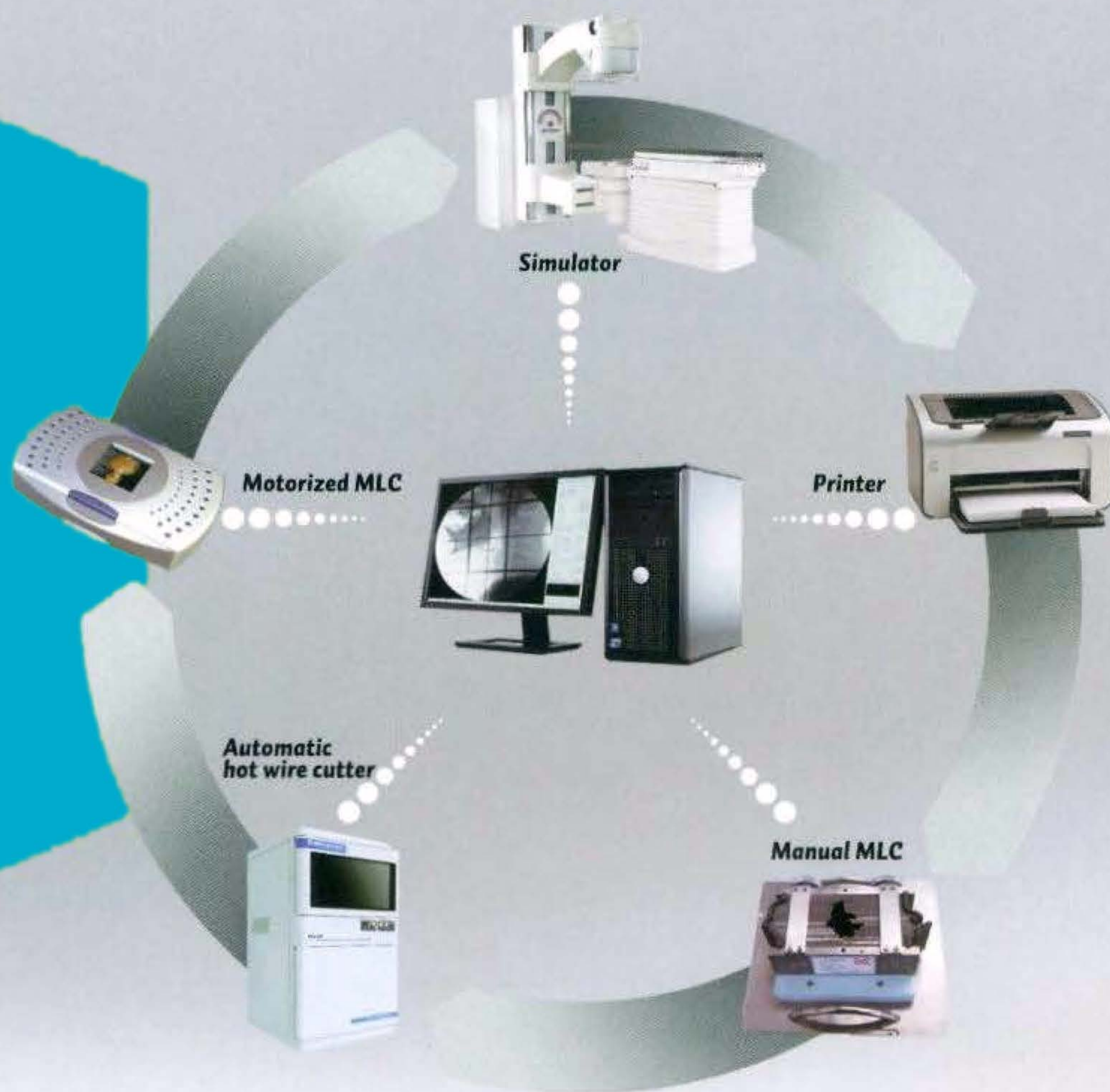


With the help of computer and internet technology, this system integrates diagnostic device with treatment equipment in radiotherapy department, managing the complete process of patient registration, set-up and treatment delivery. The fully computerized administration will achieve integrated information management and procedure control, ensuring high treatment quality and working efficiency.

## Functions

- Management and inquiry of patients information.
- Acquisition, management and application of patient images.
- Acquisition and application of radiotherapy data.
- Treatment delivery, record and verification.

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## Simulator Workstation System

This system applies to the simulator department or planning department, providing contouring tools for regular and irregular fields, MU calculation tool, as well as integral solutions for the complete treatment delivery process.

### Features

- The workstation can edit and post-process simulator positioning images, and design the fields accordingly.
- Linac MU or Cobalt 60 radiation time can be calculated automatically.
- The workstation supports registration and storage of patients basic information and set-up information.
- Image stitching function makes it possible to create plans for large field.
- RT Plan can be imported.



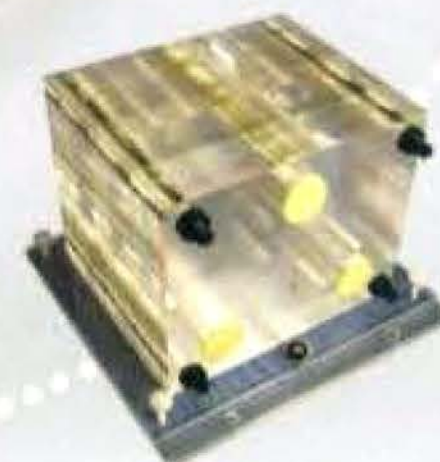
**MapCHECK**



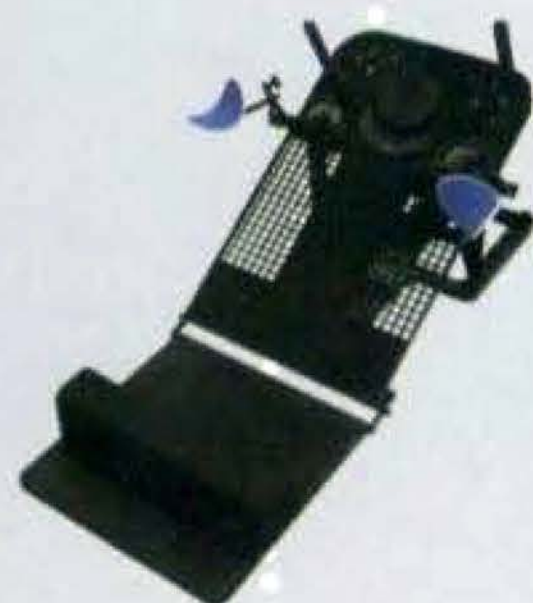
**PC Electrometer**



**3 dimensional  
water phantom**



**IMRT verification phantom**



**Breast board**



**S-type head and  
shoulder baseplate**

# **Radiotherapy Accessories**

Shinva Medical provide a variety of radiotherapy accessories, including set-up & positioning products, blocks, verification & marking products, meeting clinical needs of radiation therapy.



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