



## Best™ Integrated Radiotherapy Solutions

### Best HDR Remote Afterloader

- Provides 20 channels for dose delivery
- Battery back-up in case of power failure and automated wire recovery
- Quick source replacement process — reduces down-time
- Available with Cobalt-60 or Iridium-192 sources. Also, Ytterbium-169 source available soon!



### Huestis Fixed Red or Green Diode Lasers

- Unique three-filter design reduces transient power issues and extends diode life
- Precise line quality to ensure accurate position reproducibility
- Easy access to mounting bolt during installation
- Stable aluminum housing



### mobileMOSFET Wireless & Portable Dosimetry Systems

- IMRT in vivo, QA & phantom work
- IGRT/Tomotherapy/Brachytherapy/Radiology
- Real-time dose verification



- Routine in-vivo dosimetry

- One or multiple field measurements

- Treatment plan verification

- Intracavitary measurements



### Huestis Warming Oven for Thermoplastics

- Easy-sliding drawer opens fully to provide maximum access to the material
- Multiple masks can be softened at the same time
- No water — reduces the potential for cross contamination
- Can be used in CT rooms — no humidity that could otherwise affect the electronics of the imaging system
- Digital dry heat temperature control



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# Raycell® Mk1 X-ray Blood Irradiator

Efficient, convenient and user friendly, the Raycell® Mk1 X-ray Blood Irradiator provides a safe and cost-effective choice for blood irradiation — backed by Best Theratronics' trusted expertise and commitment to quality.



- Self-contained cooling system, no external water required
- Canister volume 1.6 L
- Estimated number of bags per cycle — 3 bags, 300 ml each
- Time for 25 Gy central dose ~6 min
- Time for 25 Gy minimum dose ~7 min
- Dose uniformity ratio 1.55:1
- Barcode reader
- Syringe holder



**Best**<sup>™</sup> *Theratronics*

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tel: 613 591 2100 866 792 8598 [www.theratronics.com](http://www.theratronics.com) [www.teambest.com](http://www.teambest.com)

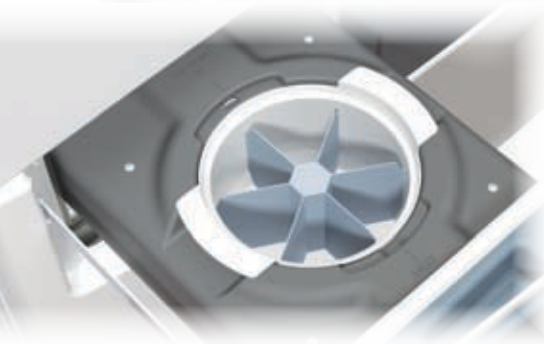
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# Raycell® Mk2 X-ray Blood Irradiators — with Options for External or Self-Contained Cooling or 6 Canister Model



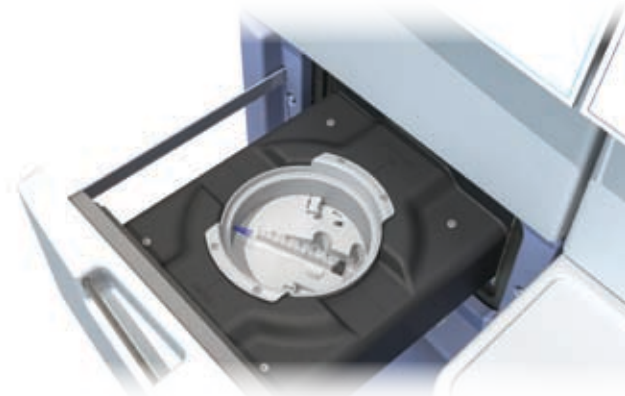
The Raycell Mk2 model features a larger chamber for irradiation of more blood bags (fits 2.0 L, 3.5 L or 6 canister model), for those facilities with higher volume needs.

- Two opposing x-ray tubes deliver excellent dose uniformity
- Central dose rate over 12 Gy/min
- Irradiation time is controlled by two independent microprocessors
- Fast irradiation times — 2.2 minutes for 25 Gy central dose
- Barcode reader



## 6 Canister Model

- 6 sections for blood bags
- Irradiates 6 bags in under 6 minutes



## Syringe Holder (Optional)

- Accommodates a 60 ml syringe
- Same irradiation time as blood bags
- Special modified canister
- Custom dosimetry report

## Self-Contained Cooling System (Optional)

- 35 L tank for distilled water
- No connection to external water needed
- System has its own power requirements (100–240 V single phase)

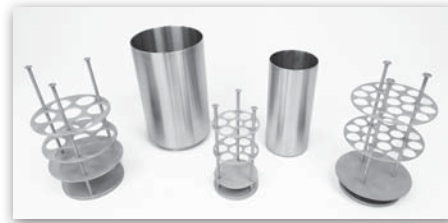


# Gammacell® 1000 Elite/3000 Elan Blood/Research Irradiator & GammaBeam™ 200 Research Irradiator

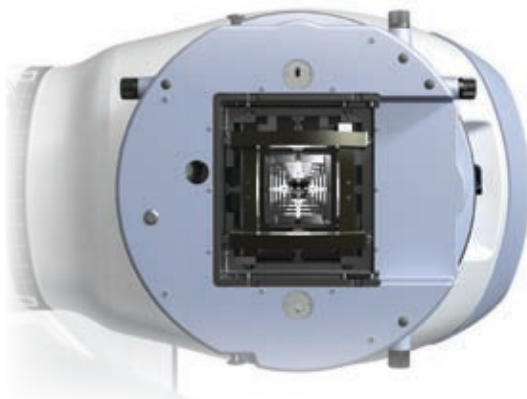
The Gammacell 1000 Elite/3000 Elan have both been refined with the valuable input of clinicians over many years, and are considered the “gold standard” in blood irradiation.



- Multiple source options depending on throughput needs
- Reliable and long-lasting irradiator
- Ideal for low to medium to high throughput locations
- Every cycle is validated
- 4-line display screen
- Barcode reader



The GammaBeam 200 is among the most versatile research irradiators available today. Suited to a broad spectrum of applications including secondary standards dosimetry, sterile insect programs, and medical or veterinary research, the unit provides your lab with a powerful tool. The GB 200 is from a long line of irradiators that researchers and clinicians have trusted and depended on for decades.



# Gammacell® 40 Exactor Research Irradiator & Raycell® X40 Research Irradiator



## Gammacell® 40 Exactor

- Ideal for small animal or cell irradiation studies
- Large, well ventilated sample container (8.0 L in volume)
- Central dose rate of approximately 0.85 Gy/min
- Excellent dose uniformity
- Accessories include attenuators and collimator

## Raycell® X40

- X-ray version of the Gammacell® 40 Exactor
- Delivers a central dose of 1.5 – 2 Gy/min
- 8.0 L sample container
- Excellent dose uniformity
- Self-contained cooling



**Best**™  
**Theratronics**

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# GammaBeam™ 100/300 Equinox™ Teletherapy System with IMRT/IGRT & UPGRADE Kit for Theratron Systems

The GammaBeam 100/300 Equinox is an evolution of the Theratron line of treatment devices. The advanced design provides freedom in treatment planning and can interface to all of the major record/verify systems to allow for rapid treatment parameter loading, treatment set-up verification and the recording of delivery.



- **NEW! Multi-Leaf Collimator for 80 and 100 cm SAD units — IMRT, IGRT, SRS, SBRT and Tomotherapy capable with ActiveRx**
- **Machine Verification** — Parameters Set and Actual are continually monitored by the machine to ensure accuracy.
- **Asymmetric Jaws** — Partial fields capable without manual blocking. This feature saves time and reduces the handling requirements of manual block trays.
- **Auto Setup** — One-button setup and patient loading decreases the time required to prepare patients for treatments.
- **Motorized Wedges** — 60° Wedge moves in and out of field allowing therapists to block fields simply and effortlessly.



## UPGRADE Includes:

- Removing all old controls, electronics and installing a new control system and covers
- Replacing the old collimator system with the new Equinox collimator
- Replacing the old treatment table with the new Avanza™ Table
- Retaining the head rotation capability is optional

## UPGRADE Features:

- Calculated Arc Speed
- Graphical Control System
- Asymmetric Jaws (optional)
- R&V System Ready (optional)
- Service Log Files
- On-Board Verification
- Motorized Wedge (optional)
- Collision Detection (optional)

**Best™ Theratronics**

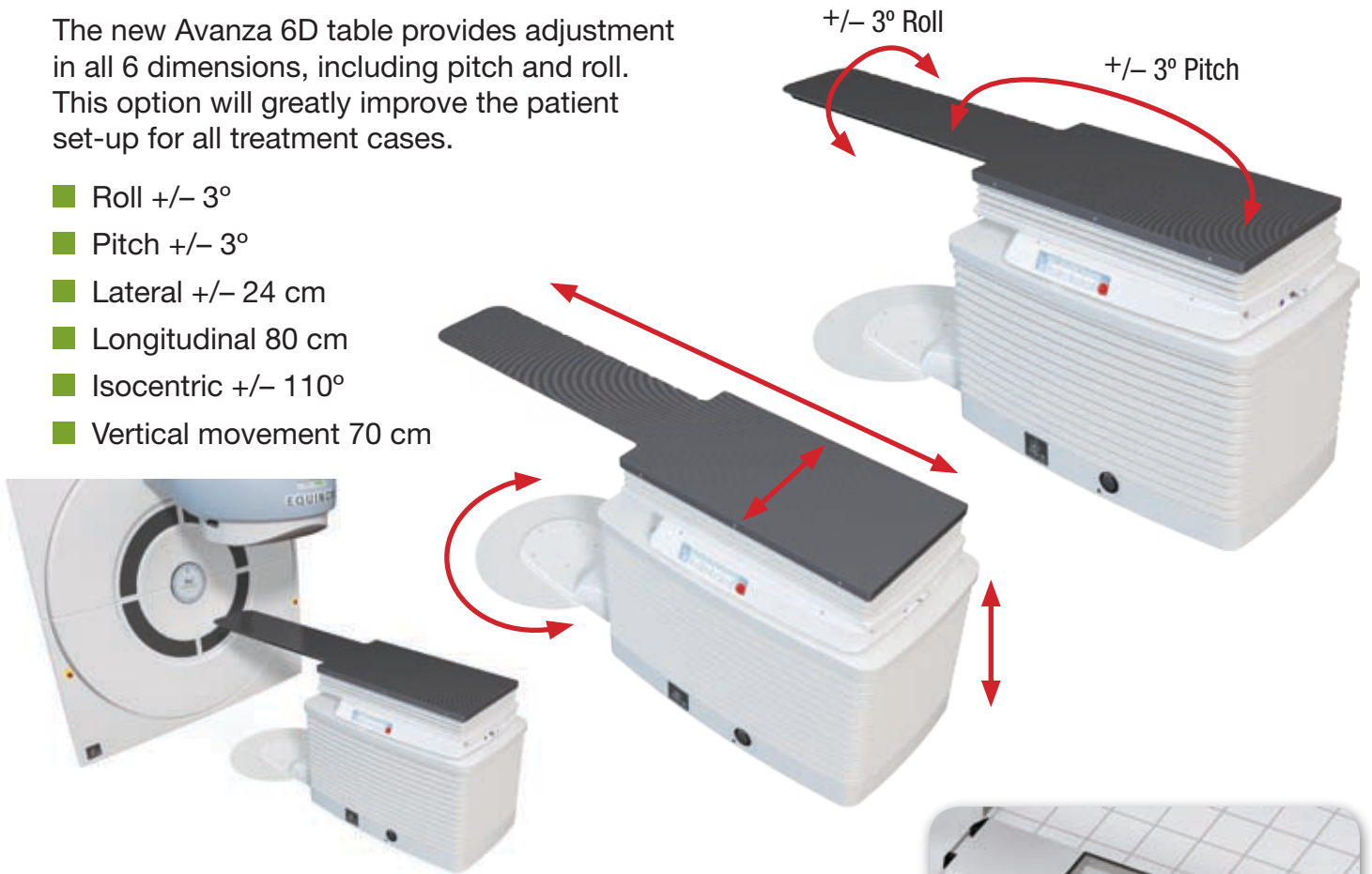
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# Avanza 6D Patient Positioning Table & GammaBeam™ 100-80 Phoenix™ External Beam Therapy System

The new Avanza 6D table provides adjustment in all 6 dimensions, including pitch and roll. This option will greatly improve the patient set-up for all treatment cases.

- Roll  $\pm 3^\circ$
- Pitch  $\pm 3^\circ$
- Lateral  $\pm 24$  cm
- Longitudinal 80 cm
- Isocentric  $\pm 110^\circ$
- Vertical movement 70 cm



The GammaBeam 100-80 is a highly practical model of the GammaBeam family of External Beam Therapy System (EBTS). Convenience and safety, combined with simplicity of design, make it easy to use and easy to maintain. Particularly appropriate for treatment centers requiring extended hours of daily operation and where budgetary considerations are a major concern.



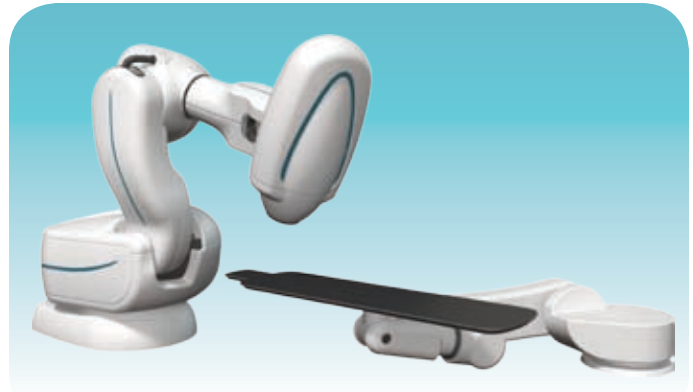
# GammaBeam™ 500 TBI, X-Beam™ Robotic Radiosurgery, E-Beam™ IORT Linac & X-Beam™ Image-Guided Multi-Energy Linac Systems



The GammaBeam 500 Total Body Irradiator is a teletherapy unit designed to produce a large fixed rectangular radiation field at an extended source-to-skin distance in order to deliver total body irradiation. The unit can also be used for research and dosimetry purposes. Features include: dose rate up to 40 cGy/min at 2.5 m in air, record & verify and imaging capabilities, graphical touch screen data entry interface and motorized vertical motion of the head.

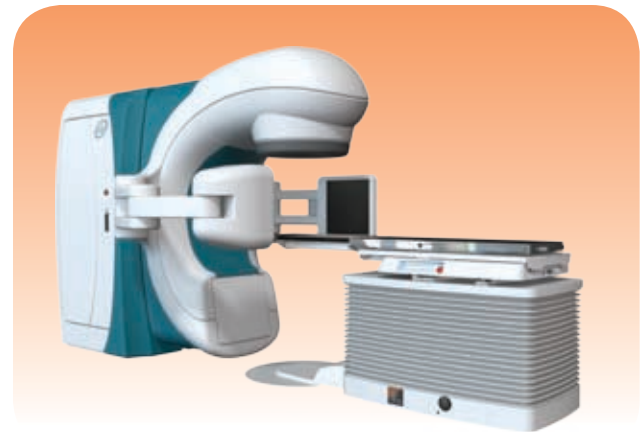
## X-Beam Robotic Radiosurgery

- Non-invasive treatment option for complex tumors, targeting cancerous cells and sparing healthy tissue and organs
- Flexible treatment angles available without moving the patient
- Targets all tumors, anywhere in the body



## E-Beam Robotic IORT Linac

- Mobile intraoperative radiation therapy for use in operating rooms
- Targets residual cancer cells during surgery, reducing the need for radiotherapy or chemotherapy at a later date in most cases



## X-Beam Image-Guided Multi-Energy Linac

\* Certain products shown are not available for sale currently.

[www.teambest.com](http://www.teambest.com)

