



BestTM Theratronics

A TEAMBEST GLOBAL COMPANY



TeamBest Global

**Self Contained Irradiators for
Animal, Blood & Research**



Best Theratronics Ltd. • 413 March Road • Ottawa, Ontario K2K 0E4 Canada
tel: 613 591 2100 866 792 8598 www.theratronics.com www.teambest.com
 European Representative: Emergo Group, Westervoortsedijk 60, 6827 AT Arnhem, The Netherlands

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—all backed by Best Theratronics' trusted expertise and commitment to quality.

FEATURES:

- 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 ~5.3 min
- Time for 25 Gy minimum dose ~6.3 min
- Dose uniformity ratio 1.55:1
- Barcode reader
- Syringe holder



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Raycell® Mk2 X-ray Blood Irradiators

2.0 L or 5.0 L (6 Canister) Models

The **Raycell® Mk2** model features a larger chamber for irradiation of more blood bags—fits 2.0 L or 5.0 L (6 canister model) for those facilities with higher volume needs.

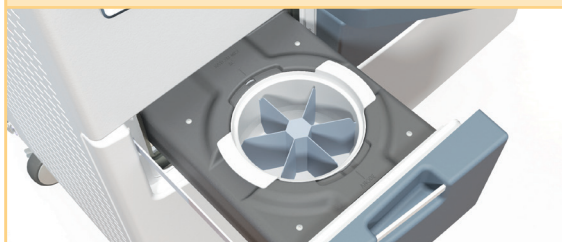
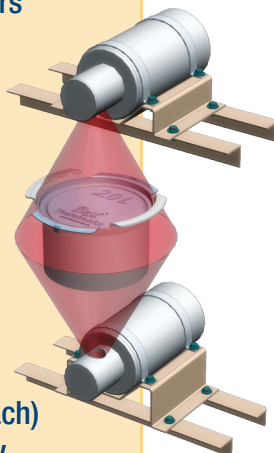


FEATURES:

- Two opposing x-ray tubes deliver excellent dose uniformity
- Central dose rate (+/- 5%)
2.0 L model: 12.3 Gy/min
5.0 L model: 5.0 Gy/min
- Radiation time is controlled by two independent microprocessors
- Fast irradiation times for 25 Gy central dose
2.0 L model: ~2.0 minutes
5.0 L model: ~5.0 minutes
- Barcode reader

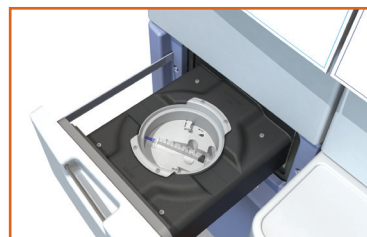
5.0 L MODEL FEATURES:

- 6 sections for blood bags
- Irradiates 6 bags (300 ml each) in under 6 minutes for 25 Gy minimum dose



ADDITIONAL OPTIONS FOR RAYCELL® MK2 X-RAY BLOOD IRRADIATORS

- **Syringe Holder (for 2.0 L model only)**
 - Accommodates a 60 ml syringe
 - Same irradiation time as blood bags
 - Special modified canister
 - Custom dosimetry report



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

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Gammacell® 1000 Elite/3000 Elan Blood and 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.

FEATURES:

- 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



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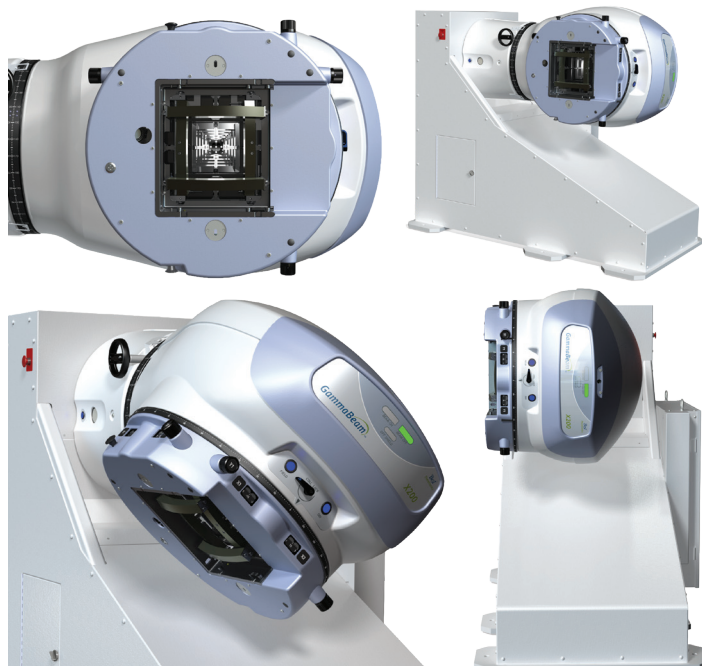
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GammaBeam™ X200 Research Irradiator

The **GammaBeam™ X200** 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 X200 is from a long line of irradiators that researchers and clinicians have trusted and depended on for decades.



Gammacell® 40 Exactor Research Irradiator

The **Gammacell® 40 Exactor** is designed to be a stand alone research irradiator. With its state-of-the-art control system, the Gammacell® 40 Exactor is engineered to give precise results.



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Raycell® X40 Research Irradiator

The **Raycell® X40** is a stand-alone research irradiator engineered to deliver precise, reliable, and reproducible results.

Two x-ray tubes surround the 8 L canister providing excellent dose uniformity (+/- 10% over the entire 8 L canister). The central dose rate of 1.5 Gy/min is ideal for most animal studies.

The design ensures specimens receive an accurate and uniform dose, regardless of their position within the large-capacity sample chamber.



FEATURES:

- X-ray version of the Gammacell® 40 Exactor
- Delivers a central dose of ~1.5 Gy/min
- 8.0 L sample container
- Excellent dose uniformity
- Self-contained cooling system, no external water required



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Additional GammaBeam™ Irradiators



GammaBeam™ X400 High Output Sterilization Irradiator



GammaBeam™ 500 Total Body Irradiator System and Patient Positioning Couch

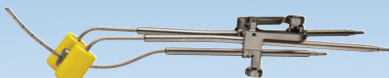
**BestMick Applicator and
10/15/20/25 Cartridges**



**Best™ Kobold Tandem &
Ring Applicator**



**Best™ Kobold Fletcher
Tandem & Ovoid Applicator**

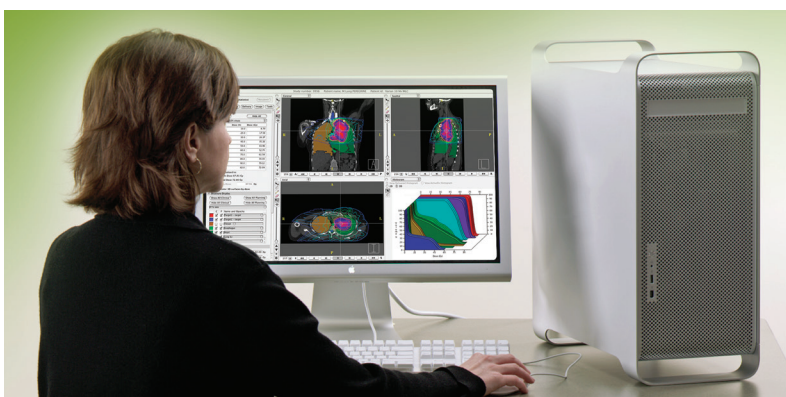


**Best™ Kobold Henschke
Tandem & Ovoid Applicator**



**Best™ HDR Remote
Afterloader**

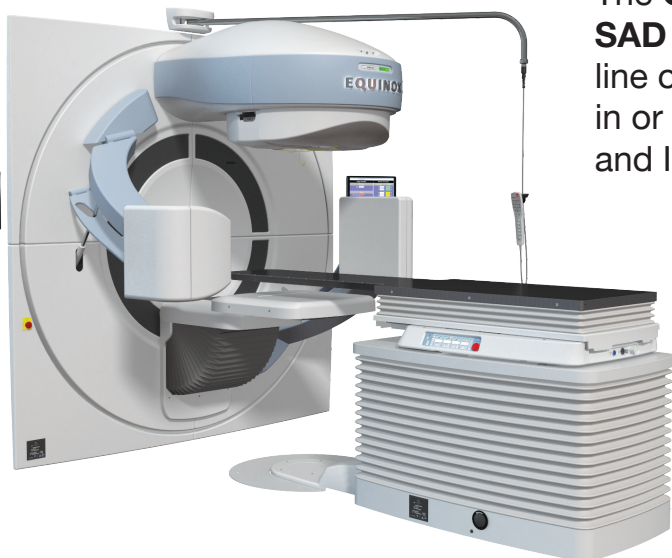
- Provides 20 channels for dose delivery
- Battery back-up in case of power failure and automated wire recovery
- Quick source replacement process — reduces down-time
- Available with Cobalt-60 or Iridium-192 sources.



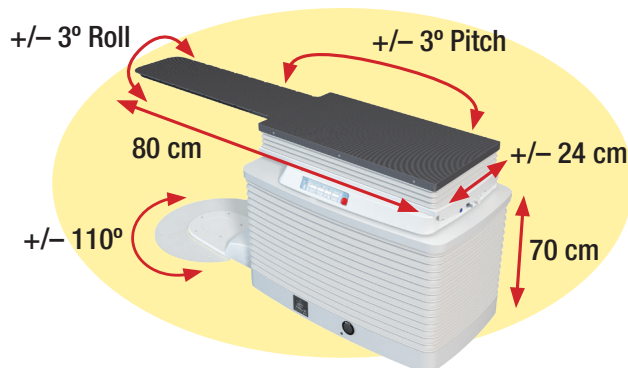
Corvus® Treatment Planning System

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GammaBeam™ 300-100 cm, 300-80 cm SAD Equinox™ Teletherapy System with Avanza 6D Patient Positioning Table



The **GammaBeam™ 300-80 cm, 300-100 cm SAD Equinox™** is an evolution of the Theratron line of treatment devices. The unit includes built in or external electronic MLC, IMRT, ActiveRx and IGRT capabilities.



GammaBeam Upgrade Kit

for all old Theratron units, 80 or 100 cm including IMRT capabilities with built in or external MLC



Upgrade features:

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

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



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