

Best[®] Theratronics



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Best[®]

healthcare for everyone

BMI.v.04.2010

Theratron® Equinox™ External Beam Therapy System



Theratron® Equinox™ and
Avanza™ Patient Positioning Table

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Theratron® Equinox™ External Beam Therapy System



Theratron® Equinox™ Upgrade Kit

- Allows for existing Theratron® 780C, Theratron® 780E, Elite 80 and Phoenix™ systems to be upgraded to Equinox™ capabilities and standards
- Removal of obsolescence problems from the field
- Older units to be updated into current units
- Well positioned for future upgrades

Upgrade Includes

- Complete removal of old controls and electronics, and installation of new control system and covers
- Replacing the old collimator system with the new Equinox™ Collimator
- Replacing old treatment table with a new patient positioning table
- Retaining head rotation capability

Upgrade Features

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

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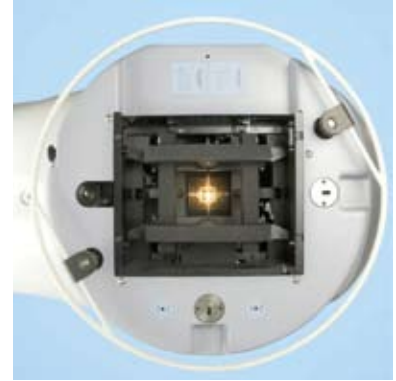
Theratron® Equinox™ External Beam Therapy System



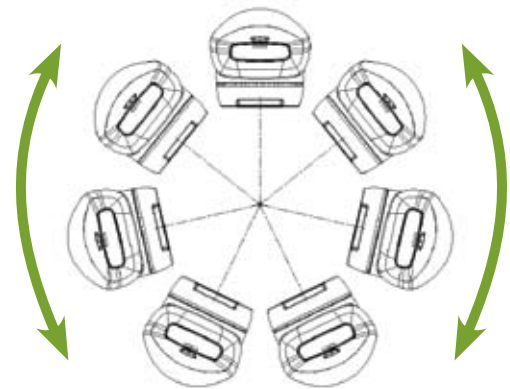
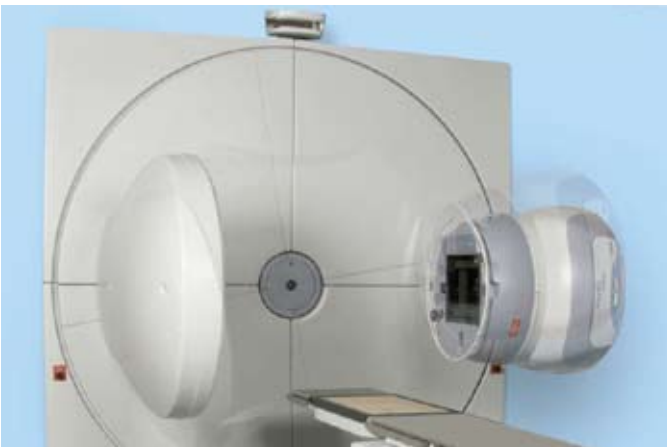
Dual Computer Control System



Ergonomic Hand Control



Asymmetric Collimators



The Theratron® Equinox™ control system automatically calculates the arc speed based on the arc angle and treatment time. This makes the delivery of any arc treatment a simple matter of entering the time and angle.

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Theratron® Equinox™ External Beam Therapy System



Reliable

The elegant yet simple design results in a more reliable system that offers more up-time than comparable devices.

Intuitive

A new graphical user interface makes entry of treatment parameters logical and easy. Interlock messages are clearly displayed and easily interpreted to allow for rapid correction of incorrect settings. The service screen displays the status of the machine for troubleshooting.

Safe

The on board verification system prevents the delivery of radiation when the Target and Actual settings do not match. The color coded display provides the operator with a clear indication of which parameters are out of tolerance. In the unlikely event of a source transition problem, the jaws automatically close completely.

Efficient

The Theratron® Equinox™ comes in either an 80 cm or 100 cm configuration and if required a Beam-stopper can be added to help with room shielding. Best® Theratronics can provide the highest activity sources in the industry, resulting in an output of 390 cGy per min at 80 cm (250 cGy per min at 100 cm). These high activity sources allow for faster treatment times which improve throughput. Additionally, Theratron® Equinox™ has an auto set-up feature that significantly reduces set-up time.

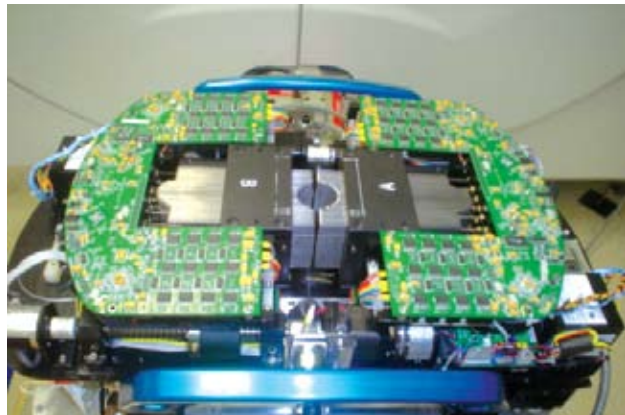
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3D Conformal Radiation Therapy

3D CRT

Best® Theratronics is pleased to announce the availability of an integrated Multi-Leaf Collimator with its Theratron® Equinox™ product line, providing 3D Conformal Radiation Therapy (3D CRT) capability. 3D CRT technology is intended to assist the radiation oncologist in the delivery of Cobalt-60 radiation to well-defined target volumes while sparing surrounding normal tissue and critical organs from excess radiation. Its design incorporates advanced electronic technologies and incorporates user friendly software. Used in conjunction with the Theratron® Equinox™ Teletherapy unit, 3D CRT also provides a foundation for future IMRT (intensity modulated radiation therapy) capability and IGRT (image guided radiation therapy) technology, for the most advanced Cobalt Teletherapy systems available.



Special Features

- The Multi-Leaf Collimator controller PC can communicate with various radiation therapy treatment planning systems based on the Dicom communications protocol.
- The multiple 1.8 mm physical thickness leaves at isocenter provide the Multi-Leaf Collimator with the ability to accurately and precisely treat small target fields using either CRT or IMRT protocols.

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Avanza™ Patient Positioning Table



Auto-Load/Unload

Table automatically drives to the load position to ease loading or unloading of patients.

Vertical Travel

Vertical travel ranges from 70 cm to 150 cm, providing clinicians with the ability to position patient for advanced treatment techniques.



Patient Convenience

Patient convenience sets the Avanza™ apart from other treatment tables. Features like auto-load and low travel position facilitate patient placement. Free-float and automated motions provide clinics with unparalleled flexibility.

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Theratron® Phoenix™ External Beam Therapy



Clinical and Workflow Benefits

- Reliable performance 24 hours a day, 7 days a week
- Simple and intuitive to use
- Maximized patient treatment capacity
- Minimal service support needs and low maintenance
- Dual timer option
- Head rotation

Simple and intuitive, requiring minimal support and maintenance cost, the Theratron® Phoenix™ is an economical solution without peer in the radiation therapy industry.

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Theratron® Phoenix™ External Beam Therapy



Table 27 M

The Theratron® Phoenix™ is supplied with the Table 27 M treatment table. Table vertical motion is motorized. All other motions are manual with locking lever controls. Table positions are indicated by scales.



Rotatable Head

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Gammabeam® X200 Research Irradiator

The Gammabeam® X200

The Gammabeam® X200 (GBX200) 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. Its expert design is based on more than 40 years of irradiator experience and backed by an industry-leading commitment to safety, quality and customer support.

Features

- Field light and ODI ensure that product is contained within the beam
- Flexibility — high or low dose depending on distance from the source
- Large field size
- Unit remembers cycle time if cycle is interrupted



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Gammabeam® X200 Research Irradiator

Regulatory Requirements

The GBX200 complies with the regulations or recommendations of the CNSC, IAEA, USNRC, NCRP, ICRU and ICRP. The unit also complies with EN ISO 12100-1&2: 2003, EN 1050:1996, EN 60204-1:2005, EN 61000-6-2:2005, and EN 61000-6-4:2001 standards, making it CE Mark compliant. Contact Best® Theratronics for further information.

Recommended Environmental Conditions

- Temperature from +5°C to +40°C
- Humidity below 50% at 40°C and between 10% and 90% at 25°C
- Elevation less than 1000 m above sea level

Electrical Service Requirements

- Single phase 60Hz \pm 3Hz, 115 Vac \pm 10% or single phase 50Hz \pm 3Hz, 230 Vac \pm 10%
- Maximum continuous current is 10 A at 115 Vac or 5 A at 230 Vac



**Examples of Chambers
for Calibration**

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