Technical Specifications



The Avanza[™] Patient Positioning Table demonstrates a high level of stability and accuracy for treatment techniques that require precision. Designed for use with external beam therapy systems and simulators.



Fully motorized motions include isocentric rotation, vertical, lateral and longitudinal motions designed to position the patients easily, quickly and accurately. The Avanza[™] Patient Positioning Table is designed with moveable support bars to maximize flexibility in treatment set-up. The Avanza[™] is the solution for more complex treatment techniques such as Intensity Modulated Radiation Therapy (IMRT), stereotactic radiation therapy and conventional treatment such as extended Skin to Source Distance (SSD) and half-body techniques.

1.0 Performance Capabilities 1.1 Isocentric Rotation Range ± 110 degrees

Speed	Variable to a maximum speed of 2.5 degrees

Accuracy 2 mm radius circle

1.2 Vertical Motion

Range 70 cm – lowest position 150 cm – highest position

Speed	Variable to a maximum of 3 cm/s
Accuracy	± 2 mm over
entire ran	ge

1.3 Lateral Motion

Range ± 24 cm

- Speed Variable to a maximum of 5 cm/s
- Accuracy ± 2 mm over entire range

1.4 Longitudinal Motion

- Range 80 cm
- Speed Variable to a maximum of 5 cm/s
- Accuracy ± 2 mm over entire range

1.5 Table Top Eccentric Rotation

The tabletop can be manually rotated from 0° to $\pm 180^{\circ}$ with locking capabilities at 0° , 90° and 180° to ensure clearance between the table and the unit.

1.6 Maximum Load Capacity

The static load capacity is 200 kg distributed over the length of the table top.

1.7 Weight

Approximately 930 kg, excluding toe-bearing assembly.

2.0 Table Top

2.1 Table Top Dimensions

80 cm isocentre configuration Width 42 cm Length 235 cm

100 cm isocentre configurationWidth49 cmLength235 cm

A 30.4 cm extension plate extends the effective length of the table for versatility.



Best Theratronics 413 March Road, Ottawa, ON K2K 0E4 Canada phone 613 591 2100 fax 613 591 6627 www.theratronics.ca www.teambest.com

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2.2 Table Top Treatment Opening (Effective Area)

80 cm isocentre configurationWidth34 cmLength58 cm100 cm isocentre configurationWidth36.5 cmLength58 cm

Kevlar mesh opening with rotating C-arm provides clearance for arc and oblique treatment set-ups.

2.3 Film Cassette Holder

A verification film cassette is mounted, using accessory clamps, on the table rails and provides positioning for any required angle.

2.4 Accessory Rails

Includes removable standard accessory rails to facilitate the mounting of patient positioning devices.

2.5 Stretcher Top Deflection

The stretcher top deflection is less than 5 mm in accordance with IEC 976 and 977.



3.0 Table Mounted Controls

The following motion controls are

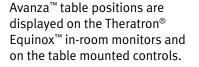
- provided on each side of the table:
- Vertical
- Lateral
- Longitudinal
- Iso-rotationFree-float
- Free-filoat
- "Zero" positionEmergency stop
- Patient load
- Free-float and actuated motions can occur simultaneously to provide smooth patient positioning.
- The auto-load capability makes patient loading and unloading easier.
- Table can be lowered manually in case of power failure.
- The lowest position of 70 cm allows patients to move easily and comfortably onto the table.
- The "Zero" position feature allow for the use of reference marks an table shifts.

The Avanza[™] is integrated with the Theratron[®] Equinox[™] External Beam Therapy System. The Theratron[®] Equinox[™] hand control can actuate table motions.

3.1 Table Position Display

The precision of the table positions displayed are as follows:

- Vertical (1 mm)
- Lateral (1 mm)
- Longitudinal (1 mm)
- Iso-rotation (0.5 degrees)



4.0 Installation Requirements

4.1 Power

- Single phase 115 V AC or 230 V AC
- + 10%, 15% single phase
- 50 or 60 Hz, 2 kVa maximum

4.2 Base Mount Requirements

The isocentre rotation mount can be installed in the base frame of an existing Theratron[®] model with no modifications. A base adapter is provided to adapt the Avanza[™] to an existing mount.

5.0 Space Requirements

For free travel of all combined table and tabletop rotations, a radius of unobstructed space of 234 cm from the isocentre is required.



Notes



Best Theratronics

413 March Road Ottawa, ON K2K OE4 Canada Tel: 613 591 2100 1 866 792 8598 Fax: 613 591 6627 www.theratronics.ca



7643 Fullerton Road Springfield,VA 22153 USA Tel: 703 451 2378 | 800 336 4970 Fax: 703 451 5228 www.teambest.com

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