



550 TxT Treatment Table

Accuracy and Strength for Advanced Therapy Applications

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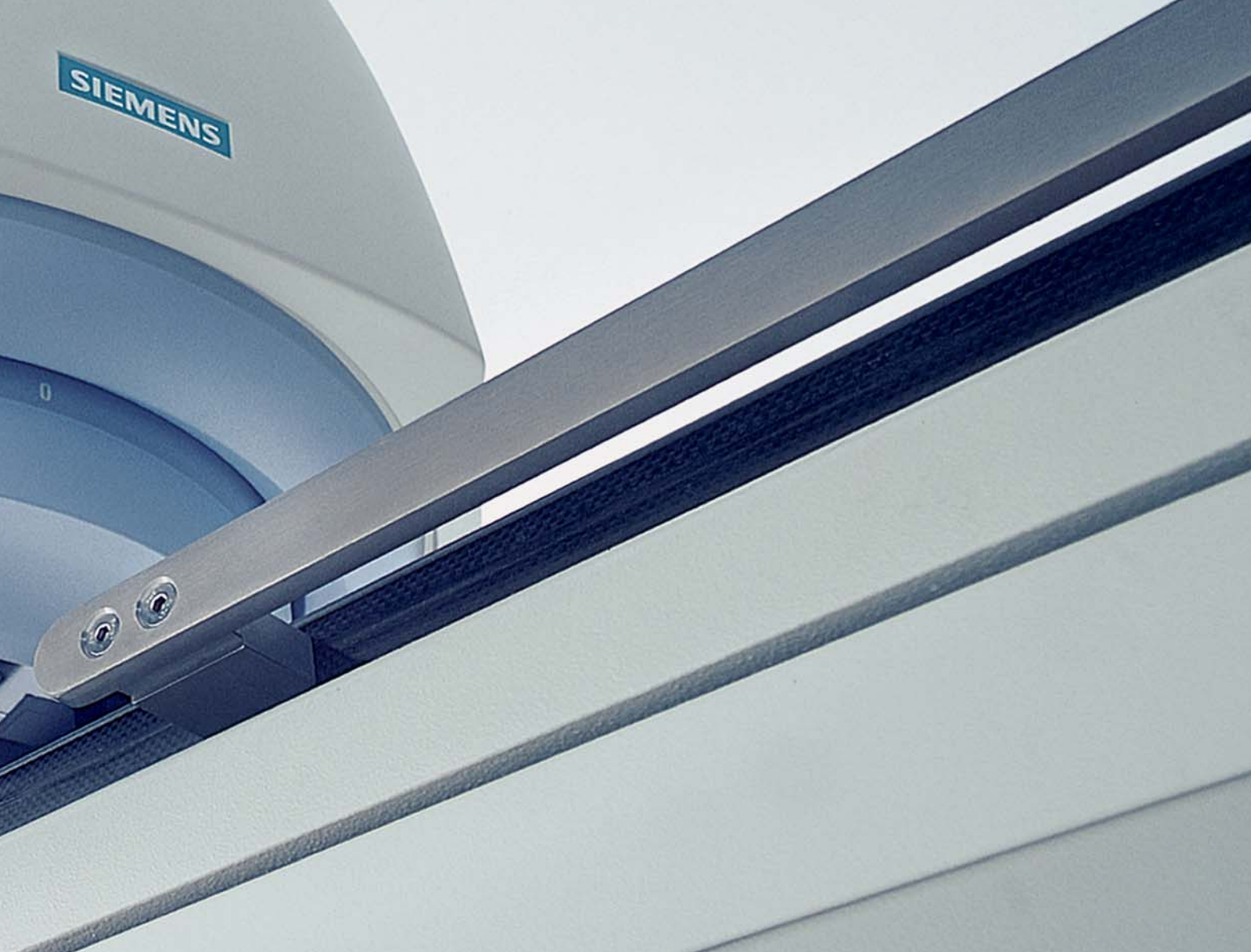
SIEMENS



550 TxT Treatment Table

With 550 Pound Load Capacity

The 550 TxT™ Treatment Table is engineered to meet increasing demands for accuracy, stability, and precision, in order to fulfill the clinical requirements of modern radiation oncology departments. Innovative features improve patient positioning while providing a unique lifting mechanism and exceptional mechanical strength that allow for a load capacity of 550 pounds (250 kg).



Clinical Features and Benefits

- User-centric interface provides ergonomic controls with tactile feedback, allowing the user to control the treatment table with a choice of manual or motorized movements
- Several controls provide easy, one-handed access from any position around the table. All table motions are available at the linear accelerator control console, (optional) including the selection of absolute and delta motion controls
- Backlit buttons, easy-to-read LED displays, and integrated flashlight assist staff with their daily routines and patient positioning
- All motions are available simultaneously, allowing for swift and accurate patient positioning
- Free-float tabletop motion capability supports fast non-routine and standard clinical set-ups
- Programmable upward and downward motion stops help to safely position the patient
- Outstanding positioning and repositioning accuracy allows for treatment delivery, using features such as MVision™ Megavoltage Cone Beam Imaging for image-based patient positioning



Product Features

Maximum Patient Load

All validated Siemens carbon fiber tabletops accommodate a maximum patient load of up to 550 pounds (250 kg)

Controls

Controls for 550 TxT Treatment Table are located at the table, on the linear accelerator hand control, and at the linear accelerator control console

Table Side Panels

- The table side controls include all mechanical movements and motorized motion for vertical motions
- Panels on each side provide digital displays of absolute and relative positions, speed selection, and full motion control with tactile feedback buttons

Table Hand Controls

- Two table hand controls support the following:
 - all motorized table movements
 - manual tabletop free-float mode (longitudinal and lateral movements)
 - speed selection
 - home and preset positions
 - absolute or relative positions
- All buttons provide tactile feedback
- Integrated flashlight assists with visualization of patient marks

Linear Accelerator Hand Control

Preset positions enable automatic table movements including home position

Linear Accelerator Control Console (optional)

This optional feature supports all motorized movements from the control console

Digital Displays

All digital displays provide a 1 mm linear and 0.1° angular resolution

Interlocks

The 550 TxT Treatment Table has three safety interlocks that interface with the Siemens linear accelerator

- Table Float Interlock:
Prevents treatment when the motion lock switch is off; the motion lock switch disables all electric and free-float table movements
- Illegal Motion Interlock:
Prevents treatment if the table moves when the motion lock is on
- Motion Stop Interlock:
Prevents treatment when a motion stop button is pushed



Motion Stop Buttons

Two motion stop buttons are located below the side panel to disable power to the table and trigger a Motion Stop Interlock on the Siemens linear accelerator

Power Requirements

Power for the table is supplied by the linear accelerator

Safety Aspects

- Electromagnetic brakes reduce mechanical play on all motions
- Breaks are automatically activated in the event of power failure
- Motion stop buttons are located on both sides of table
- The table can be lowered in the event of power failure
- Tabletop lock is indicated with colored lights

Product Specifications

Range-of-Motion Specifications

| Motion Possibility | Tabletop longitudinal | Tabletop lateral | Vertical (start point at 650 mm above floor level) | Column rotation (Z-axis) | Isocentric rotation |
|--|-----------------------|------------------|--|--------------------------|---|
| Range of motion | 900 mm | ±250 mm | 1050 mm | ±182° | ±120° for ONCOR / Primus ±115° for ARTISTE |
| Motorized speed control ^{1,2} | 10 & 40 mm/sec. | 10 & 40 mm/sec. | 4 & 40 mm/sec. | — | 1.0 & 4.0°/sec. |
| Manual control | Yes | Yes | — | Yes | Yes |
| Absolute positioning accuracy ^{2,3} (repeatability) | ±0.5 mm | ±0.5 mm | ±1.0 mm | ±0.5° | ±0.5° |
| Corrective positioning accuracy ^{2,3,4} | ±0.2 mm | ±0.2 mm | ±1.0 mm | — | — |
| Intermediate stops | — | — | Yes 3 stops | — | Yes 0° position |
| Motion brakes | Yes | Yes | Yes | Yes | Yes |
| Measurements according to IEC 976, Section 14 | <5 mm | <3 mm, <0.4° | <1 mm | — | <0.5 mm |

1. All motorized movements contain ramp-up speed functionality.
 2. All speeds and accuracies are for 140 kg patient weight.
 3. Weights greater than 140 kg may have up to 20% deviation from listed values.
 4. Corrective positioning values are for distances less than 50 mm.

IEC Specifications

Deviation of the column rotation between 0° and 180°

- ≤0.25° angle (between isocentric and column axes)

per IEC 976, Section 14.3

Isocentric displacement

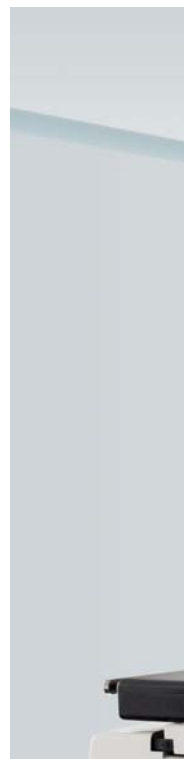
- <1 mm (due to isocentric rotation)

per IEC 976, Section 14.3

Table deflection

- <5 mm

per IEC 976, Section 14.4.1

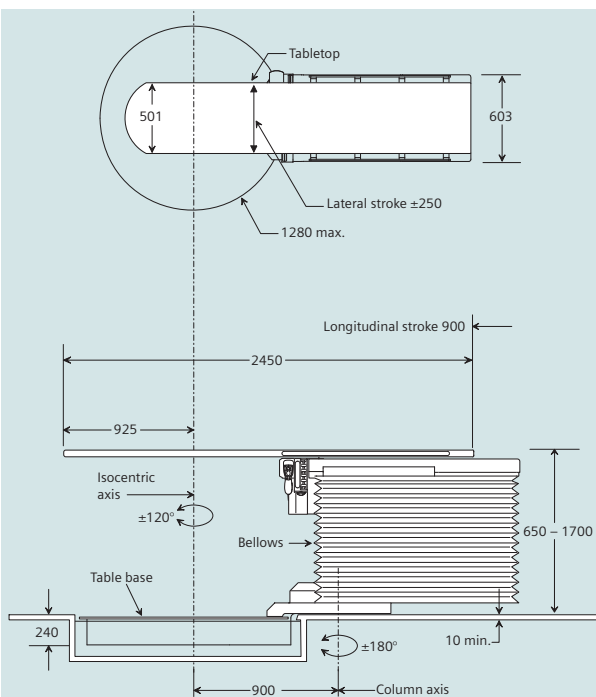


Accessories and Options

Tabletop Specifications

| | TT-A Ideal for Adaptive Radiation Therapy (ART) | TT-D Offers DHHS validation for use with CTVision™ Systems | TT-M The multipurpose tabletop solution | TT-S Designed for high precision patient positioning |
|---|--|---|--|---|
| Patient load specified (evenly distributed) (lbs/kg) | 550/250 | 550/250 | 550/250 | 550/250 |
| Length (cm) | 245 | 245 | 247.8 | 245 |
| Length without headboard (cm) | N/A | N/A | 193 | 199 |
| Railing length (cm) | 113 | 100 | 107 | 113 |
| Width (cm) | 60.3 | 60.3 | 57 | 60.3 |
| Width without accessory rails (cm) | 50.1 | 50.1 | 53 | 50.1 |
| Height (cm) | 6.7 | 4 | 5.4 | 6.7 |
| Transmission value at 6 MV (%) measured at 0° gantry position | 97 (d _{max} shift = 6 mm) | Min. 97.8 | Depending on insert | 97 (d _{max} shift = 6 mm) |
| Table deflection (mm) with 135 kg load | 4 (≤5 mm for up to 250 kg) | ≤5 | ≤ 5 | 4 (≤5 mm for up to 250 kg) |
| Indexing system and Lok-Bar | Yes | No | Yes | Yes |
| Extensions/accessories included | None | None | Grid panel, tangential panel, solid panel, type-S head extension, and top plate assembly | Foot & Head extension |

550 TxT Treatment Table Dimensions and Ranges



All dimensions are in millimeters unless otherwise specified. Linear dimensions are ±10 millimeter, and angular dimensions are ±1°.

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