

SRT 100

Superficial Radiotherapy System
for the Treatment of Skin Cancer



TOPEX

Setting a New Standard in Superficial Radiotherapy for The Treatment of Skin Cancer

TOPEX SRT 100 superficial radiotherapy system is designed to meet today's needs of the medical practitioner for the treatment of skin cancer.

The clinical needs for a special purpose system are based on changing age demographics, the increasing number of new skin cases diagnosed annually and the need to provide a non-surgical alternative for primary lesions in sensitive areas.

TOPEX has developed a totally unique SRT product design through consultation with the medical community and expertise from within the x-ray therapy industry. This new design provides a system with compact size, mobility, automated set-up controls, modular component electrical assembly platforms and a wide range of motion for patient treatment flexibility. The SRT 100 represents a culmination of "bottom-up" product design effort resulting in significant improvements compared to older bulky component system designs.

Additionally, the SRT 100 design substantially reduces labor intensive manual set-up procedures for improved productivity and scheduling while providing complete ease of use for patient treatment.

TOPEX is committed to lead the way in setting new industry performance standards that provide advantages to **the patient** for a non-surgical alternative, **the physician** for a specially designed ease of use skin cancer treatment system, **the practice** for low capital investment and improved scheduling and productivity and **the payer** for an accepted and proven treatment method.



Unique SRT-100 Design Innovations:

Standard Wall Socket Plug-In Operation

Mobility for Patient Treatment Flexibility

Automatic Filter Selection

Scissor Arm with Integrated Cam-Locks.

Compact Design - 30"X 30" Footprint

Automatic Warm-Up Modes

RAD CHECK – Radiation Output Verification



Designed For The Way You Work

Designed to provide exceptional ease of use, the illuminated operator control panel features logically arranged controls for system operation and treatment selection (including automatic system warm-up, automatic built-in AL filter changes, pre-treatment radiation check verification for accurate dose delivery and a service mode for ease of system entry and calibration.

- | | |
|------------------------------------------|-----------------------------------|
| 1 Safety Key Switch | 7 Dual Timer Indicators |
| 2 Power On Indicator | 8 Automatic Warm-up Status |
| 3 Start & Stop Control | 9 Pre-treatment Status |
| 4 kV mA Selection | 10 Safety Emergency Off |
| 5 Auto AI Filter change indicator | 11 Applicator ID |
| 6 Exposure Set Time | 12 Accumulated Dose |

Advanced System Design for Treating Skin Cancer

Large Range of Motion

The unique positioning arm design has both horizontal and vertical range of motion.

Sitting or Recumbent Patient Positioning

Flexible movement allows for clinical treatment with patients in sitting or recumbent positions.

Compact Mobile Design

The unique mobile design requires only a 30" x 30" footprint saving space while providing treatment location flexibility.

Pre-Treatment "RAD" Check (Patented)

This unique pre-treatment feature verifies radiation output before the patient is treated.

Automatic Warm-up

There are programmed x-ray tube warm-up sequences that are selected based on the time of last exposure.

Automatic Al Filter Change (Patented)

Upon kV mA selection, the system automatically changes the Al Filter eliminating the need for filter storage and manual procedures.

Physicist Calibration Fixtures

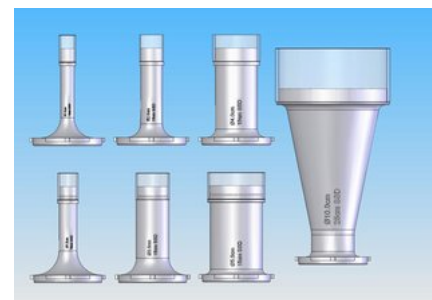
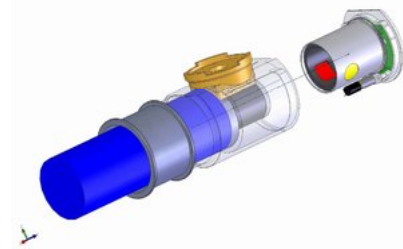
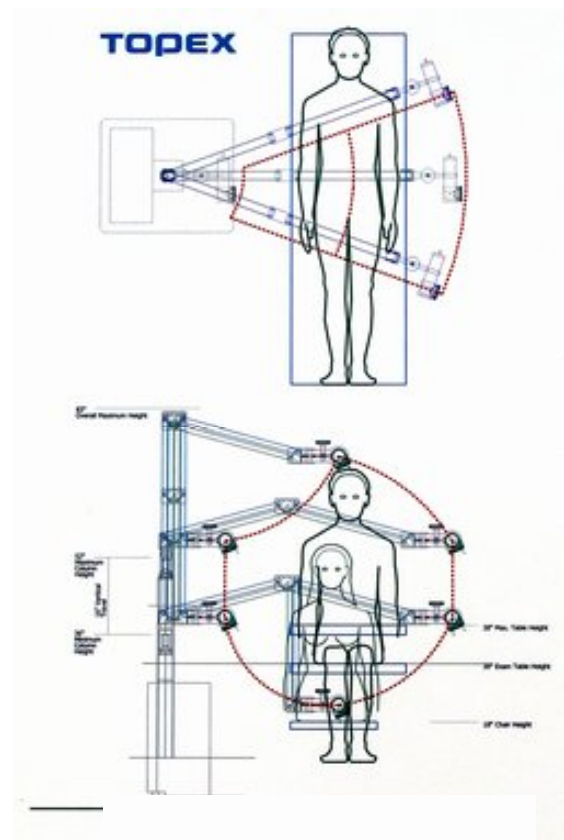
Designed for absolute and relative energy output radiation measurements and HVL using the Farmer Type Chamber.

Replaceable Visual Applicator Safety Contact Shields

The system has seven applicators sizes: 1.5cm, 2cm, 2.5cm, 3cm, 4cm and 5cm @ 15cm SSD and 10cm @ 25cm SSD. Each applicator safety contact tip is replaceable and provides for visualization of the treatment area.

Precise Dose Delivery

There are three X-ray Beam Energies used specifically for the Treatment of Skin Cancer.



Lower Cost of Ownership and Operation

Advanced Design System Architecture

The SRT 100 is designed to provide maximum uptime, more profitable treatment procedures and minimal renovation costs for installation.

Compact Design and Mobility

The compact low profile SRT 100 design requires minimal floor space. Efficient component integration means reduced cabinetry ó consequently, a much smaller actual 30ö x 30ö footprint. The x-ray tube is metal ceramic for long life. The benefit of a mobile vs. a permanent installation provides treatment location flexibility.

Clinical Flexibility

System mobility combined with a large range of motion provided by the scissor arm design provide treatment for patients in sitting or recumbent positions.

Cost Effective Operational Benefits

The SRT system requires 120/230VAC input voltage with standard wall socket plug-in. Combined with the automatic warm-up, automatic filter change and öRADö Check features, the SRT 100 provides the benefits of low cost operation and reduced procedural costs.

Increased Productivity and System Uptime

System uptime has been maximized by using advanced system architecture. Patient throughput is also significantly improved with SRT 100's automatic set-up procedures.

Service Personnel and Medical Physicists

The SRT 100 incorporates a Service Mode for Service personnel and Medical Physicists to easily enter system set-up and calibration parameters.

Capital Investment and Payback

The SRT 100 is priced for the treatment of skin cancer and provides the opportunity for increased referrals by offering an alternative to specialized surgery procedures.



SRT 100 Specifications

Generator

Type - Constant Potential HV
 Input Line ϕ 120 ϕ 230 VAC
 Standard wall socket

X-Ray Tube

Metal Ceramic
 Water -cooled
 Tungsten Target
 End grounded
 Rating
 100kV/10mA
 40kV/30mA
 1000 watts continuous dissipation

Base Unit Assembly

Base Space Requirements ϕ 30 ϕ by 30 ϕ
 Vertical Arm Range: 57 ϕ
 Horizontal Arm Range: 49 ϕ
 X-Ray Tube Movement ϕ V&H 180 degrees
 Integrated Modular Components ϕ Input power, HV Generator,
 Heat Exchanger

Operator Control Console

Can be located up to 100 ϕ (30meters) from base unit
 Service mode for system set-up and calibration ϕ key entry

Three Treatment Techniques

100kV @ 8mA, 2.1 mm Al. HVL
 70kV @ 10mA, 1.1 mm Al. HVL
 50kV @ 10mA, 0.4 mm Al. HVL
 X-Ray output is 600 cGy @ 15 cm SSD

Automatic Filter Changer (Patented)

2.1 mm Al. HVL
 1.1 mm Al. HVL
 0.4 mm Al. HVL
 Pb X-ray Block

Automatic Warm Up procedures

Automatically activated from time of last exposure
 Pre-programmed sequences
 Pb lead blocker automatically placed over x-ray tube port

RAD Check (Patented)

Direct radiation measurement of output
 Pre-treatment verification

System Weight

350 lbs. (160 kg)

Standard Size Treatment Applicators

1.5cm, 2cm, 2.5cm, 3cm, 4cm and 5cm
 Diameter @ 15cm SSD & 10 cm Diameter @ 25cm SSD

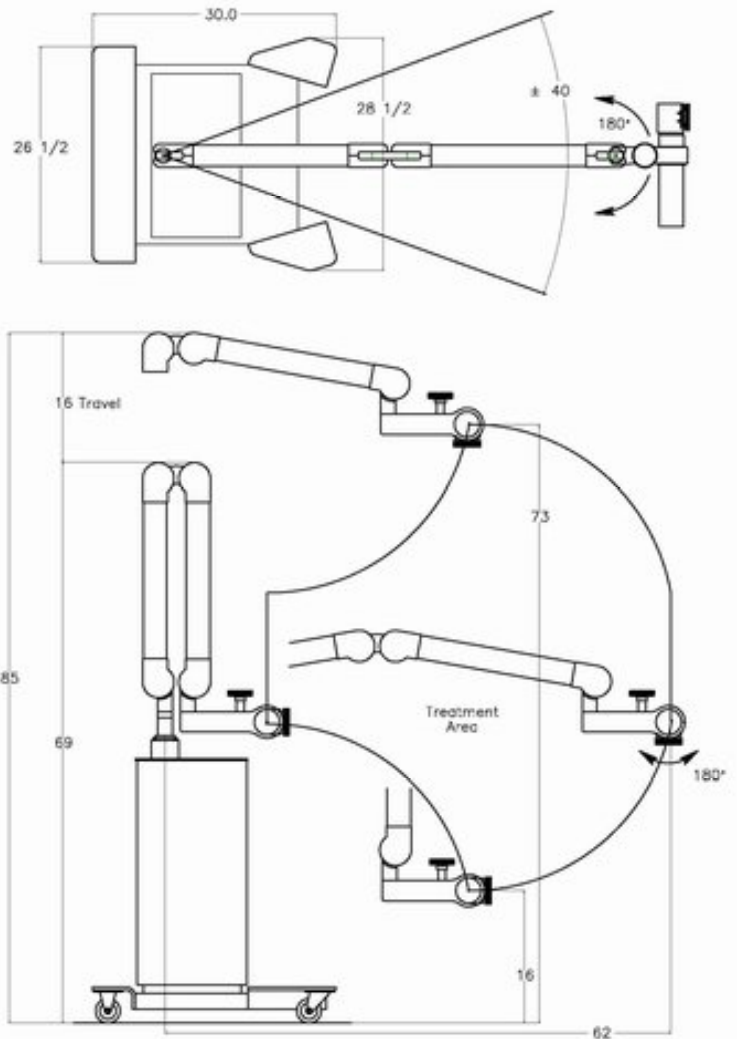
Replaceable Safety Contact Shields

Applicator size specific
 Visibility of treated area

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BASE UNIT DIMENSIONS



CONTROL CONSOLE DIMENSIONS

