



**BEBIG**

Affordable healthcare for everyone



**Efficient application of superficial and  
intra-operative X-ray therapy**

## Electronic Brachytherapy (eBT) for efficient superficial and intraoperative X-Ray therapy applications

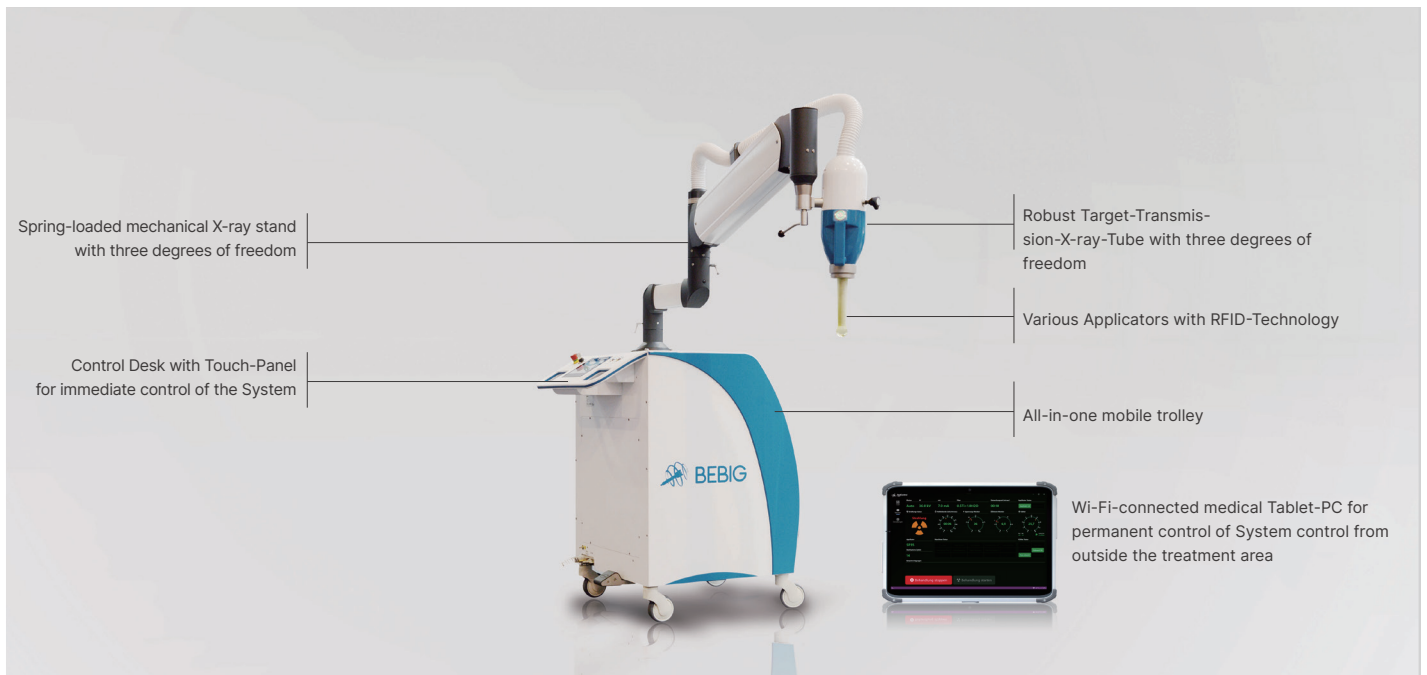
Womed ioRT-50 is intended to use for superficial and intraoperative X-ray therapy. By using a transmission target tube design this electronic Brachytherapiesystem allows treatments very close to the target volume.

The Womed ioRT-50 unit consist of an All-in-one mobile trolley with a mounted X-ray tube stand, which is proved for the use inside the operating theater. The treatment could be started by an integrated touchscreen panel or remotely via a medical tablet-PC, which also represents the Wi-Fi-connected control unit of the system.

The tube head is mounted on a spring-loaded arm and can be turned in two axis. The spring-loaded arm itself is easy to move for height setting. A clamping mechanism enables the preselected stand position to remain stable while treating the patient.

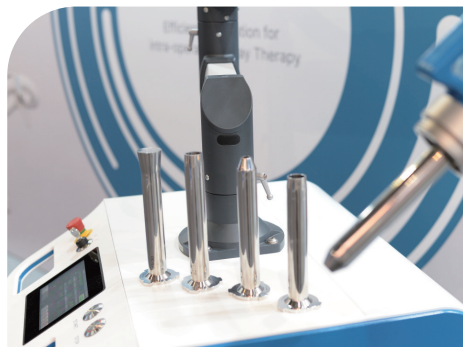
The systems use a water-water cooling system to ensure a non-stop treatment opportunity. In the environment of the operation theater the Womed ioRT-50 allows also to treat up to 45min offline from external water connection.

Various applicators and accessories complete the basic equipment for the application of intraoperative radiotherapy.



### Superficial (Skin) Applicators

- Stainless steel applicator with open or closed circular application field
- RFID-Technology for automatic applicator detection and energy setup
- Sharp collimation of the treatment field
- Flatness of dose distribution depending on the applicator

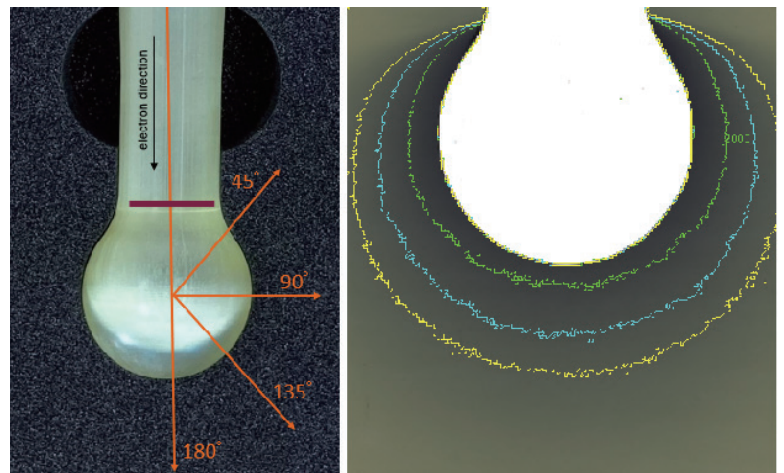


Applicator [field size in cm/ FSD in mm]	Energy [kV,mA]	Half-value depth [mm]	Surface dose rate [mGy/min]
d1/15, open	35kV, 7mA	4.6	720
d2/15, open	35kV, 7mA	5.1	740
d1/30, open	50kV, 7mA	6.0	1750
d2/30, open	50kV, 7mA	7.1	1900
d3/30, closed	50kV, 7mA	11,0	1600

### Intraoperative spherical (breast) Applicators

- Biocompatible 3D-printed Applicator plus Tungsten-shielding tube
- RFID-Technology for automatic applicator detection and energy setup
- Approved for steam sterilization, 50 cycles
- Spherical dose distribution with varying half-value depth a long the sphere-angles
  - highest HVD in 180-degree (reliable irradiation of the margin)
  - lowest HVD in 45-degree (less dose in skin direction)

Applicator [SP-Ø in mm]	Energy [kV,mA]	Half-value depth [mm]	Surface dose rate under 180° [mGy/min]
SP-35	70kV, 7mA	12.5	5350
SP-40	70kV, 7mA	14.5	3870
SP-45	70kV, 7mA	16.0	3000
SP-50	70kV, 7mA	17.8	2450
SP-55	70kV, 7mA	18.5	2000



### System Specifications

Technical Data	Womed ioRT - 50
High Tension	30...70 kV
Max. Tube Current	7 mA
Max. Output Power	500 W
Cooler-Technology	Two-circuit (water-water), treatment offline from external water possible
Inherent Filtration	0.15mm Cu + 1.0mm H <sub>2</sub> O + 0.5mm Ti
Numbers of selectable clinical energies [kV/mA]	3, depending on applicator
Standard Energy Setup [kV / mA / 1st HVL]	35kV / 7mA / 2.0mm Al 50kV / 7mA / 3.3mm Al 70kV / 7mA / 4.7mm Al
Numbers of Applicators	Unlimited
Standard Applicator Set [field size in cm/ Focal-Skin-Distance in mm]	Superficial applicators: d1/15, open, 35kV d2/15, open, 35kV d1/30, open, 50kV d2/30, open, 50kV d3/30, closed, 50kV Intraoperative applicators: SP-35, SP-40, SP-45, SP-50, SP-55 (spherical, Ø in mm), 70kV
Stand Option	Mobile trolley with X-ray stand arm, manual movements, manual locks
Mains	1~PEN 230 V AC, 10 AT
Country of Origin	Germany



CE2265

**Production**

- Berlin, Germany
- St. Gangloff, Germany
- Mount Vernon, NY, USA
- Shanghai, China

**Distribution**

- Berlin, Germany
- Mount Vernon, NY, USA
- Shanghai, China
- Singapore
- New Delhi, India

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