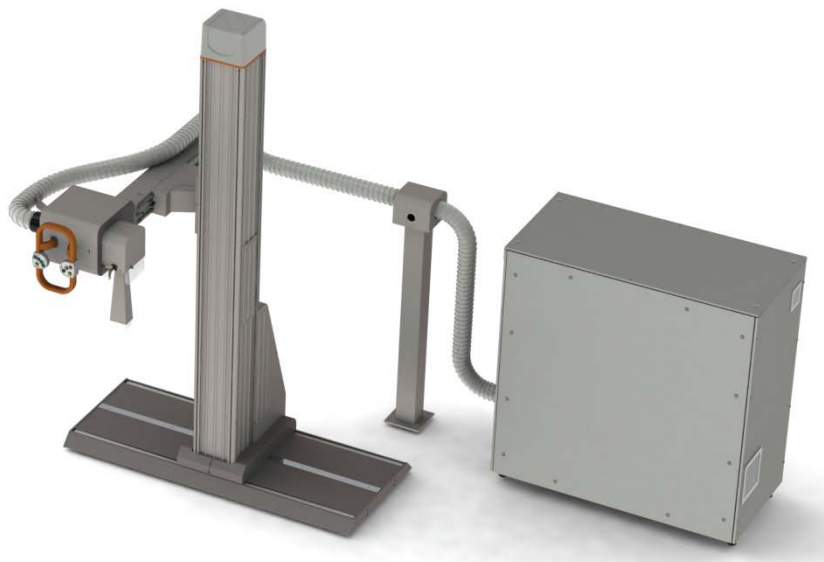


C200



X-Ray Therapy Machine

Company Profile

We, the medtec- GmbH, located in the beautiful north west of Germany in an industrial area called Ecopark, Emstek. In cooperation with our sister company & development partner “Curadia GmbH” and “GermanPhysics” we are a high performance team. Our main focus lies in development, design and in the close future manufacture of medical equipment, particularly radiotherapy facilities. Our corporate philosophy contains specifically the following points. Our complete philosophy can be found at <http://medtec-gmbh.de/philosophie.htm>

GERMAN  PHYSICS
we support your needs



curadia
life science

Benign Tumours

- Every year about 50,000 patients in Germany are treated for “non-malignant disorders” by using ionizing radiation applied in more than 300 radiotherapy (RT) facilities.
- Non-malignant indications for RT comprise about 10–30% of all treated patients in most academic, public and private RT facilities in Germany.
- Overall, there is not a single RT institution among all 300 active RT facilities in Germany that does not offer RT for these benign or “non-malignant diseases.
- Considerable number of clinical trials have been carried out and published.
- RT of non-malignant conditions is usually carried out with much shorter time schedules and with much lower single and total RT doses than those applied for malignant tumours.

C200 Application for Benign Diseases

1. Painful chronic - inflammatory degenerative diseases:

- Adhesive capsulitis of shoulder (Frozen Shoulder)
- Epicondylitis
- Dupuytren's contracture (palmar fibromatosis)
- Tendinitis, Paratendinitis
- Osteoarthritis
- Coxarthrose (joint disease of hip)
- Gonarthrose (degenerative joint disease of Knee)
- Spondyloarthropathy or ankylosing spondylitis
- Myositis ossificans
- herpes zoster, or zona

2. Dermatology non-malignant diseases:

- Psoriasis (long lasting autoimmune disease)
- Itchy dermatoses, chronic eczema, Psoriasis
- Hemangioma

3. Acute Inflammation (Inflammation Radiation)

- Hidradenitis axillaris (acute, chronic acne)
- Post-operative parotitis (immediately after the occurring the pain)
- panaritium osseous (all types, immediately after beginning of pain)
- Face furuncele

4. Hypertrophic Processes:

- Keloid (small area, not older than 6 months)
- Keloid recurrence prevention (immediately post-operative)
- Dupuytren's contracture
- Peyronie
- Prophylaxis of Gynecomastia (before starting hormone therapy for prostate cancer)

Malignant Tumours

- Epithelial skin cancers, which includes squamous and basal cell carcinomas (BCC), are the most frequently diagnosed group of cancers in humans.
- Estimations indicate that over 10 millions new cases of basal cell carcinomas and about 3 millions of squamous cell carcinomas (SCC) occur each year worldwide.
- In several western countries, such as the United States and Switzerland, epithelial skin cancers represent more than one third of all cancers diagnosed.
- The majority of the skin cancers are basal cell carcinomas followed by squamous cell carcinomas; both are the result of many years of ultraviolet light exposure from sunlight.

C200 Application for

Malignant Diseases	Palliative
<ul style="list-style-type: none"> • Skin tumors (Basaliom, Spinaliom) • Precancerous lesions of the skin (Bowen's disease, erythroplasia, Mb. Paget) • Penis carcinoma 	<ul style="list-style-type: none"> • Skin and Soft tissue metastases • Superficial local recurrence (i.g. breast cancer) • Painful bone metastases all organ tumors of the extremities



Advantages of RT for Skin Cancers

- Radiotherapy treatment has many advantages, including the preservation of anatomy and avoidance of surgery.
- Useful in elderly patients or those on anticoagulants, who may not be suitable for general anaesthetic.
- Utilising the appropriate X-Ray energy, preferably at an early stage, results in excellent local control and cosmesis, which is equivalent to that of surgery .
- Other indications for the use of radiotherapy as the preferred treatment of choice are: lesions that would require reconstructive surgery, large superficial lesions and patients who refuse or are unfit, for surgery.

Features of Kilovoltage Machines

- In compare with high energy electron, Kilovoltage X-Ray units have the advantage of being low in cost.
- Relative simplicity of design and operation.
- Use of simple collimation and beam shaping, and the housing of such equipment requires less in the way of radiation protection compared to the linear accelerators.
- Use of superficial or orthovoltage radiotherapy equipment allows departments to optimise the use of their mega-voltage machines for treating other non-cutaneous malignancies.
- Has a sharp penumbra, which spare the surrounding organs.
- Relatively high absorption of these low energy X-Rays in bone means that it is well suited to the palliative treatment of painful bony metastases in shallow regions such as the ribs and sternum

Technical Performance

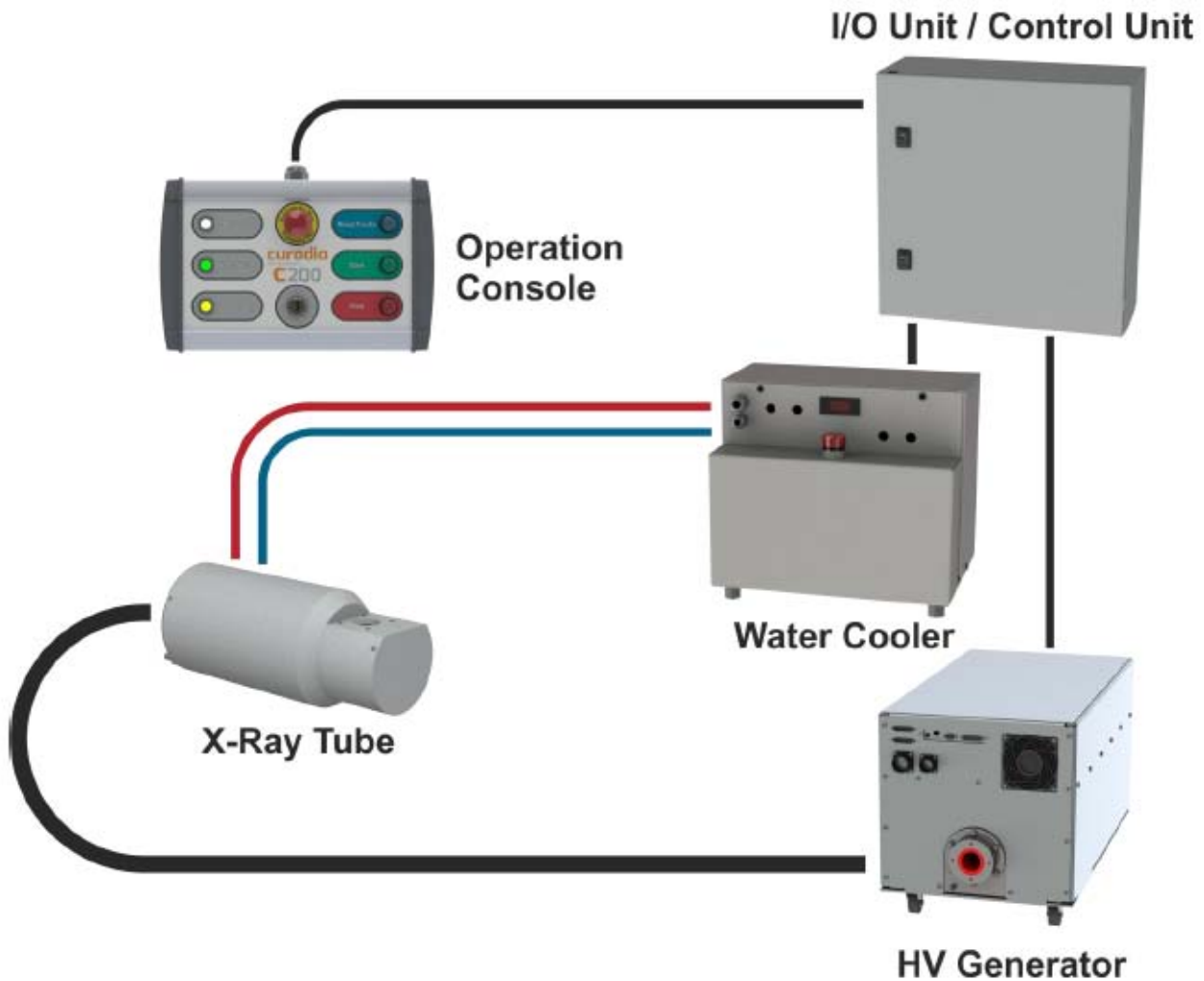
- Reliable operation of the sensor and fault detection
- Compliance with the rules for mechanical & electrical safety
- Compliance with the radiation protection regulations

Technical Features

- High operational stability
- Simple & intuitive operation
- Ergonomic design
- Reliable operation of the sensor and fault detection
- Compliance with the rules for mechanical & electrical safety
- Compliance with the radiation protection regulations
- Integrated control instrument and planning software



Device Components



For further information about our Cplan or our companies do not hesitate to contact us.

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