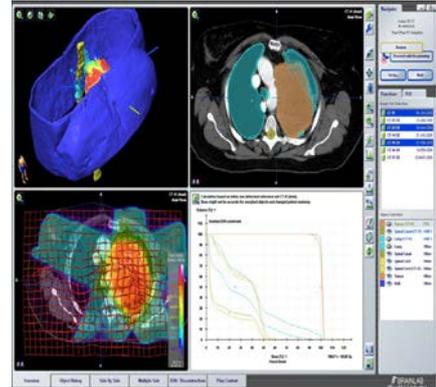
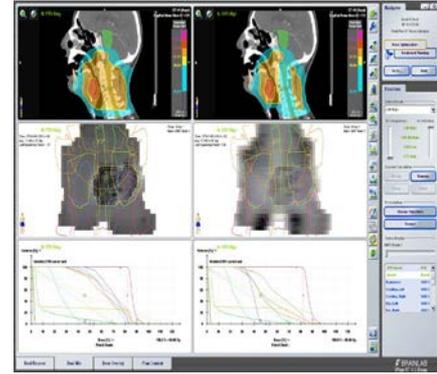
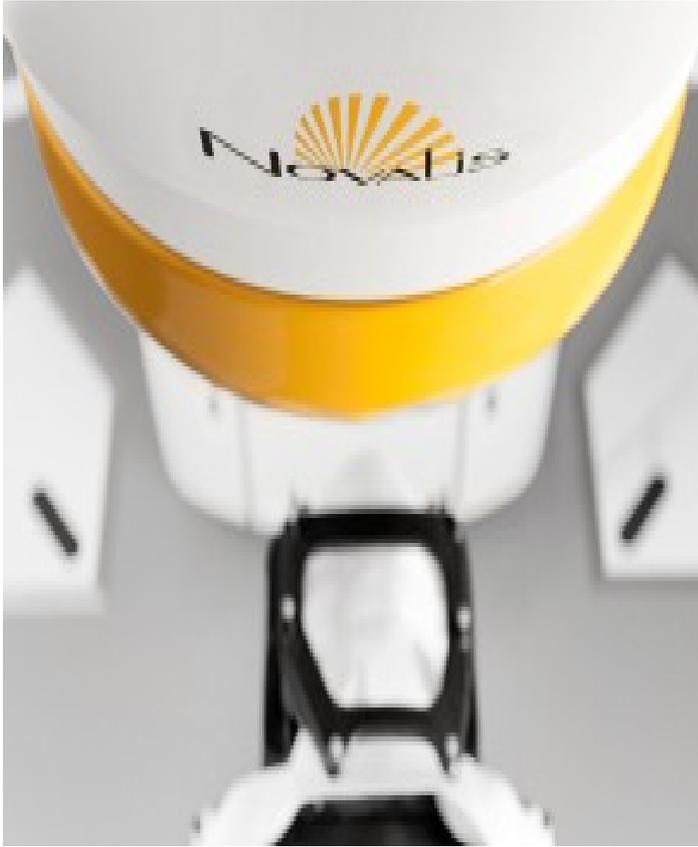


Radiation Oncology

“ I just can't live the negative way...
make way for the positive day.”

— Bob Marley

BRAINLAB



Stereotactic radiosurgery (SRS) or radiotherapy (SRT) Stereotactic body radiation therapy or radiotherapy (SBRT) and stereotactic ablative radiation therapy or radiotherapy (SABR) all describe an advanced form of radiation therapy utilizing very accurate targeted radiation in large doses to effectively destroy a lesion non-surgically.

As this type of treatment requires millimetre accuracy, linear accelerators require additional technology and significantly improved imaging to ensure that the radiation is focused on a small area “target” within the patient.

This is exemplified by Brainlab’s product portfolio designed to complement conventional Linacs with sophisticated treatment planning, and image-guidance tools to provide highest treatment accuracy with dedicated radiosurgery tools

Brainlab has been a key player in the field of precision radiotherapy and stereotactic radiosurgery (SRS) for over two decades.

Novalis® Radiosurgery

Novalis® Radiosurgery is an advanced configuration of specialized tools dedicated to fast, precise and highly targeted SRS and SBRT treatments. A Novalis Tx treatment typically lasts only 15 minutes. Throughout treatment, Novalis Tx continuously tracks any micro patient movement and allows for automatic adjustment, ultimately increasing the level of accuracy.

ELEMENTS SUITE

Brainlab Elements, is a comprehensive suite of indication-specific radiosurgery treatment planning modules.

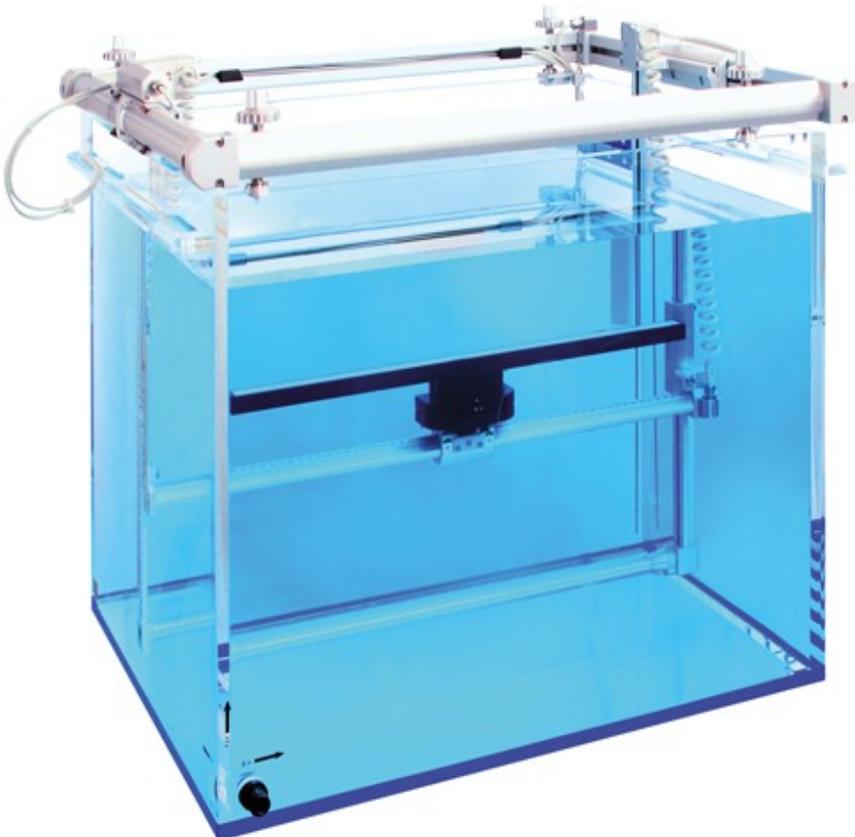
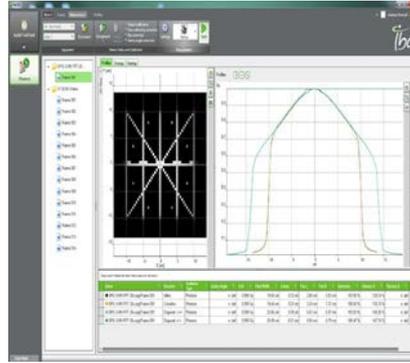
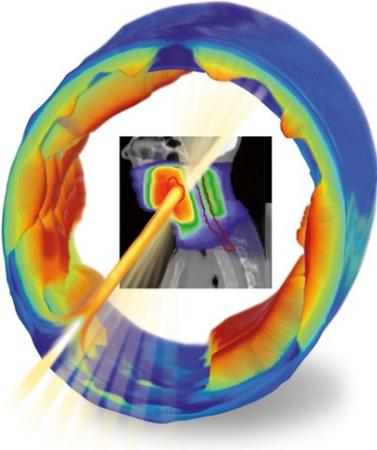
CONTINUOUS FRAMELESS X-RAY VERIFICATION

ExacTrac allows submillimetric precision during radiotherapy and radiosurgery treatments and verifies the patient’s position according to their internal anatomy.

IBA VISICOIL Linear Fiducial Markers

Modern radiation therapy techniques necessitate a higher degree of accuracy in targeting the tumour (target delineation) and aligning the patient

VISICOIL is a flexible linear fiducial marker which helps to pinpoint a tumour's location with greater accuracy and allow the maximum radiation dose to the tumour while sparing healthy tissue.



IBA Dosimetry offers a full range of innovative high-quality solutions and services that maximize efficiency and minimize errors in Radiation Therapy.

IBA Dosimetry is the global market leader for Integrated Quality Assurance solutions and services that maximize efficiency and minimize errors in Radiation Therapy, Medical Imaging, and Calibration procedures

myQA is a software platform that integrates all QA applications, processes, workflow, people and data into one QA framework. It offers a unique platform that connects QA applications, people, and know-how through a Central Database and the Cloud.

- Relative Dosimetry
- Absolute Dosimetry
- Machine QA
- Patient QA
- Particle Therapy QA



PET CT TECHNOLOGY

Canon Medical Systems are the first to introduce and launch a second generation PET scanning system. This unit is unique in that its construction is unmatched in the market.

Large 90 cm bore opening, Canon Large Bore CT system with 16/32 slices and the new PET scanner all make for ease of patient imaging.

Our expertise in patient image quality is again demonstrated on this new technology and the number of installed sites world- wide shows the acceptance by discerning doctors of this technology.

Tecmed Africa are associated with a cyclotron system supplier to ensure that the product required for PET can easily and reliably be produced on site.



PET CT TECHNOLOGY

The Shanghai United Imaging Healthcare family of PET-CT scanners are a new generation of molecular imaging systems with outstanding performance and patient-centric design focus.

Ground breaking technologies such as the patented HYPER electronic technology, the PQS detector, the Time Of Flight (TOF) and HYPER UVT image reconstruction all contribute to create the optimum resolution that is demanded in modern departments.



PROTON THERAPY

IBA is the worldwide leader in proton therapy technology. The company has been leading proton therapy for the last 30 years and has built the largest user community of the world's best proton therapy centers. Based on this experience, IBA offers the highest uptime rates and can install your system in less than 12 months. Work with the leader in innovation - IBA - the best in proton therapy today and tomorrow.

Why proton therapy?

Proton therapy is considered the most advanced form of radiation therapy that uses high-energy proton beam to irradiate tumors. For its benefits, proton therapy is used today to treat many cancers and is particularly appropriate in situations where treatment options are limited and conventional radiotherapy using proton beam presents unacceptable risks to patients. These situations include eye and brain cancers, head and neck cancers, prostate, liver, lung, breast, and pediatric cancers, as well as other tumors in the close proximity to one or more critical structures.





Proton Therapy

- Minimizes radiation exposure of healthy tissues.
- Potential to reduce the risk of secondary cancers.
- Potential to improve the quality of life for patients.
- Possibility of re-treatment.



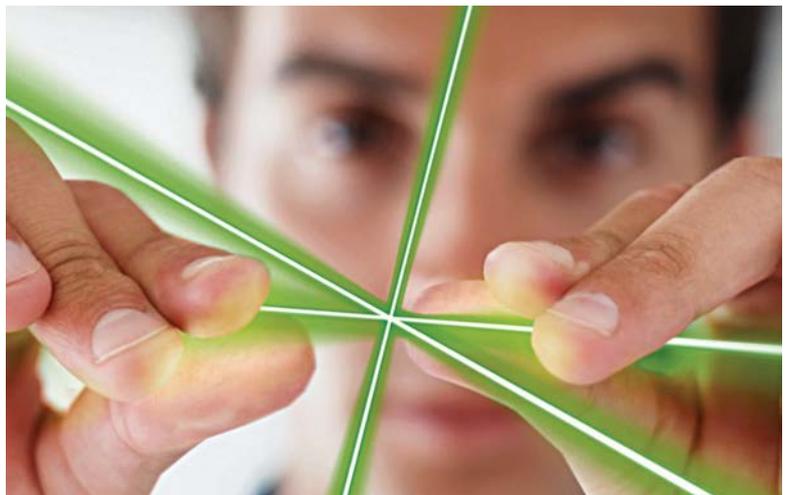
Precise, accurate and reproducible patient positioning is paramount to the success of radiation therapy.

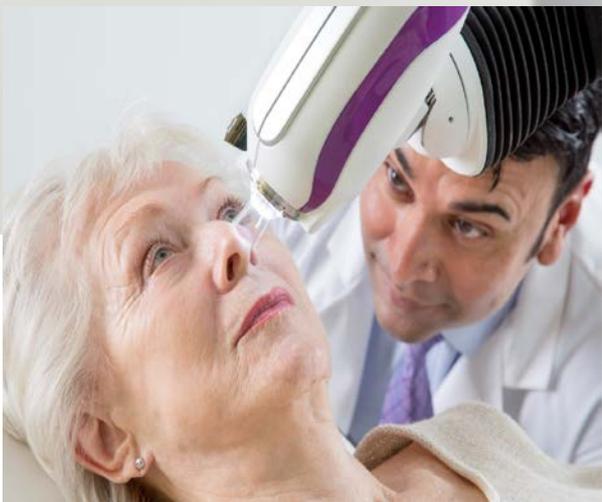
CIVCO designs, manufactures and markets comprehensive immobilization devices which improve patient outcomes and increase clinical accuracy and productivity for head & neck, breast, lung, abdomen, prostate and other treatment sites.



Positioning and marking lasers represent the interface between the patient and the linear accelerator.

LAP lasers deliver the highest precision, accuracy and reproducibility to give radiation therapy a reliable base.





Low dose X-Ray therapy has been successfully used in the treatment of hyper proliferative and degenerative diseases for many years.

No other modality is capable of treating superficial as well as deep skin tumours with such precision, according to their depth.

Xstrahl is the worldwide market leader in Ortho-voltage treatment units.

