Bhabhatron – II

Advanced Gamma Therapy upgradable with MLC



A Machine for All

Healthcare facilities are constantly changing to extend high quality & affordable care by providing the efficient treatment solution to whom it really Matters: The Patients.

Bhabhatron-II addresses these important attributes in treating cancer patients, ensuring focussed & precisely targeted treatment.



Designed to Deliver...

Intuitive Workflow

Efficient workflow is the key in today's radiotherapy clinics. Bhabhatron II brings together all the major elements from planning to treatment delivery seamlessly for an effective radiation therapy regimen. The complex processes are made faster and more intuitive, increasing productivity and allowing medical professionals to treat more patients. Bhabhatron II provides a single, integrated system that enables to perform patient setup, Record & Verification and treatment delivery with fast and highly efficient workflow.

Asymmetric Collimation

Asymmetric collimator with its inherent precision aids in conforming the radiation beam only to the targeted tumor, thereby avoiding the unwanted exposure to the nearby critical organ or tissue.

Record & Verify

The Record & Verify system in Bhabhatron II has evolved to eliminate the potential human error and provide unprecedented clinical efficiency.

Arc Therapy

Bhabhatron II gantry can deliver treatment around the tumour in a 360^0 rotation, which can achieve uniform dose distribution resulting in efficient treatment.

Features for Seamless Integration

Innovation is the core of Bhabhatron II, offering uncommon new approaches that maximizes clinical performance and workflow efficiency. To meet the ever increasing needs of every modern radiation oncology center, Bhabhatron II is integrated with advanced couch and wireless hand pendant.

Bhabhatron II's new hand pendant is ergonomically designed to provide fast, effortless and highly automated operation during patient set up.

The Couch can easily adapt to patient and treatment specific needs. The indexed carbon fibre couch provides highest patient positioning accuracy and precision for all treatment protocols. The movements on couch are fully automated saving treatment time and workload of the users.



Equipped with Indexed Radiolucent Carbon Fiber Couch for Accurate and Reproducible Patient Positioning

Bhabhatron II consumes low power and is backed up with Battery to ensure uninterrupted treatment during power outages.



Bhabhatron II



Conformal Treatment on Bhabhatron MLC

Bhabhatron II is capable of delivering state-of-the-art conformal precise dose delivery to the target site more safely, while avoiding the healthy surrounding tissue. MLC can be used for the treatment of targets in both small and larger separation anatomical regions upto a field size of 25 x 25 cm.

Going Conformal the Bhabhatron MLC way

Delivering doses of tumoricidal radiation has always been a primary requirement to the Physicians and clinicians. The Multileaf collimator on Bhabhatron is an important tool to replace the conventional shielding for conformal treatments in the cobalt unit. With faster leaf velocity and inter-leaf dosimetric gap of 0.02cm, the overall treatment time is reduced. Bhabhatron MLC improves both the accuracy and the effectiveness of radiation therapy and reduces the time for every treatment which potentially increases the number of patients treated every day.

Optimized Workflow

Bhabhatron II's graphical user interface provides easy to use, consistent platform which helps achieve streamlined workflow and enhanced efficiency.



Safety Features

Delivering the correct dose accurately is of utmost importance to limit the radiation to surrounding healthy tissue. Bhabhatron II is built to meet the international safety standards to ensure patient safety at every stage. Bhabhatron II conforms to International Electro Technical Commission standards and is CE Marked.

Safety Interlocks

Built with various interlocks like Couch Interlock, Air-Pressure Interlock, Battery Interlock, Bhabhatron II ensures utmost safety for the patient as well

Automatic Collimator Closure

In the unlikely event of any irregularities during treatment, the Collimator closes automatically reducing the field size to zero ensuring no exposure to patient and clinical staff.

Beam Modifier Interlock

The beam modifier interlock prevents treatment delivery in an unlikely event of wedge mismatch.

Reliable, Efficient and Integrated

Service Built on Experience

Panacea is backed by its most extensive service team who responds promptly and appropriately to service and support calls to maximise the productivity for hospitals.





Panacea's list of comprehensive services comprises:

- Full Service Contract
- Preventive Maintenance Visits
- Emergency Service
- Replacement of Spares

To deliver the highest quality care possible, Panacea works closely with the customers. We offer tailor-made training programs to ensure the optimum utilization of Bhabhatron-II. A team of experts from Panacea will also provide assistance in planning site requirements to ensure radiation safety.





Planning



Commissioning



Clinical Training

The customers can reach out to our Customer Care Centres for technical and clinical applications support.



In Technical Collaboration with

Bhabha Atomic Research Center, India

Bhabhatron – II

PANACEA

Engineering Medicine

Panacea Medical Technologies Pvt. Ltd.

contact@panaceamedical.com

www.panaceamedical.com

*Specifications are subject to change without any prior notifications

Version 10