

BestTM Cyclotron Systems

Best Cyclotron Systems provides 15/20/25/30/35/70 MeV Proton Cyclotrons as well as 35 & 70 MeV Multi-Particle (Alpha, Deuteron & Proton) Cyclotrons

- Currents from 100uA to 1000uA (or higher) depending on the particle beam are available on all BCS cyclotrons
- Best 20u to 25 and 30u to 35 are fully upgradeable on site

Cyclotron	Energy (MeV)	Isotopes Produced
Best 15	15	¹⁸ F, ^{99m} Tc, ¹¹ C, ¹³ N, ¹⁵ O, ⁶⁴ Cu, ⁶⁷ Ga, ¹²⁴ I, ¹⁰³ Pd
Best 20u/25	20, 25-15	Best 15 + ¹²³ I, ¹¹¹ In, ⁶⁸ Ge/ ⁶⁸ Ga
Best 30u (Upgradeable)	30	Best 15 + ¹²³ I, ¹¹¹ In, ⁶⁸ Ge/ ⁶⁸ Ga
Best 35	35-15	Greater production of Best 15, 20u/25 isotopes plus ²⁰¹ Tl, ⁸¹ Rb/ ⁸¹ Kr
Best 70	70-35	⁸² Sr/ ⁸² Rb, ¹²³ I, ⁶⁷ Cu, ⁸¹ Kr + research



Installation of Best 70 MeV Cyclotron at INFN, Legnaro, Italy

BestTM ABT Molecular Imaging

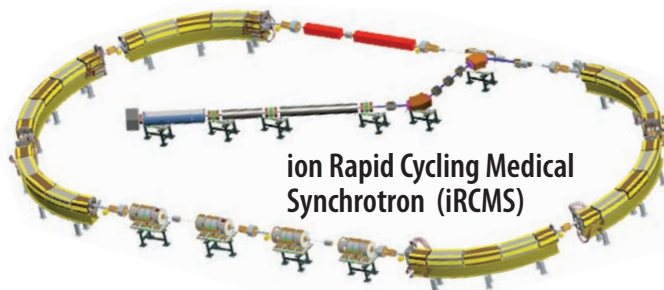
The BG-75 Biomarker Generator is a revolutionary development in radio-pharmaceutical production that delivers a single or batch dose of ¹⁸F-FDG, and additional advanced ¹⁸F biomarkers on demand. The system provides integration of all components needed to produce and qualify PET biomarkers into a single, self-contained system that occupies a fraction of the space required by conventional solutions, simplifying the implementation of PET.



BestTM Particle Therapy

400 MeV Rapid Cycling Medical Synchrotron for Proton-to-Carbon Heavy Ion Therapy:

- Intrinsically small beams facilitating beam delivery with precision
- Small beam sizes – small magnets, light gantries – smaller footprint
- Highly efficient single turn extraction
- Efficient extraction – less shielding
- Flexibility – heavy ion beam therapy (protons and/or carbon), beam delivery modalities



ion Rapid Cycling Medical Synchrotron (iRCMS)