

# Best<sup>TM</sup> 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	<sup>18</sup> F, <sup>99m</sup> Tc, <sup>11</sup> C, <sup>13</sup> N, <sup>15</sup> O, <sup>64</sup> Cu, <sup>67</sup> Ga, <sup>124</sup> I, <sup>103</sup> Pd
Best 20u/25	20, 25–15	Best 15 + <sup>123</sup> I, <sup>111</sup> In, <sup>68</sup> Ge/ <sup>68</sup> Ga
Best 30u (Upgradeable)	30	Best 15 + <sup>123</sup> I, <sup>111</sup> In, <sup>68</sup> Ge/ <sup>68</sup> Ga
Best 35	35–15	Greater production of Best 15, 20u/25 isotopes plus <sup>201</sup> Tl, <sup>81</sup> Rb/ <sup>81</sup> Kr
Best 70	70–35	<sup>82</sup> Sr/ <sup>82</sup> Rb, <sup>123</sup> I, <sup>67</sup> Cu, <sup>81</sup> Kr + research



## Best<sup>TM</sup> ABT Molecular Imaging

The BG-75 Biomarker Generator is a revolutionary development in radio-pharmaceutical production that delivers a single or batch dose of <sup>18</sup>F-FDG, and additional advanced <sup>18</sup>F 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.



## Best<sup>TM</sup> 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

