

## **NEW!** Best Sub-Compact Model 200 Self-Shielded Cyclotron with Optional Second Chemistry Module

- Low energy compact system, can be placed next to PET/CT
- Easy to operate push-button graphic interface
- Automated quality control testing
- Ideal for Nuclear Cardiology/Oncology and other Applications
- Capable of producing:  $^{18}\text{F}$ FDG,  $\text{Na}^{18}\text{F}$ ,  $^{18}\text{F}$ -MISO,  $^{18}\text{F}$ FLT,  $^{18}\text{F}$ -Choline,  $^{18}\text{F}$ -DOPA,  $^{18}\text{F}$ -PSMA,  $^{11}\text{C}$ ,  $^{13}\text{N}$ ,  $^{68}\text{Ga}$  and more!

## **NEW!** Best Model B3d Sub-Compact Low Energy Deuteron/Proton Cyclotron

- Accelerated Deuteron Particle: 1 to 3 MeV Energy
- Accelerated Proton Particle: 1 to 6 MeV Energy
- Maximum Beam Current of  $2\mu\text{A}$
- Self-shielded system
- Small footprint (less than 5 m x 5 m)

# Best<sup>TM</sup> Cyclotron Systems

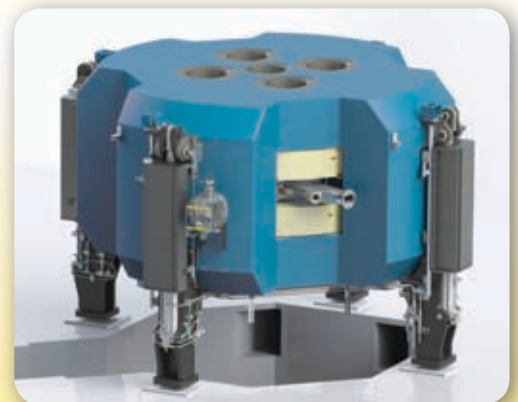
## **NEW!** Best 6–15 MeV Compact High Current/Variable Energy Proton Cyclotron

- 1–1000  $\mu\text{A}$  extracted beam current
- Capable of producing the following isotopes:  $^{18}\text{F}$ ,  $^{68}\text{Ga}$ ,  $^{89}\text{Zr}$ ,  $^{99\text{m}}\text{Tc}$ ,  $^{11}\text{C}$ ,  $^{13}\text{N}$ ,  $^{15}\text{O}$ ,  $^{64}\text{Cu}$ ,  $^{67}\text{Ga}$ ,  $^{111}\text{In}$ ,  $^{124}\text{I}$ ,  $^{225}\text{Ac}$ ,  $^{103}\text{Pd}$  and more!
- Up to  $5 \times 10^{13}$  neutrons per second from external target
- 21 stripping foils at each stripping port for 2 minute rapid change



## **NEW!** Best Model B35adp Alpha/Deuteron/Proton Cyclotron for Medical Radioisotope Production & Other Applications

- Proton Particle Beam: 30 MeV Energy, 500  $\mu\text{A}$  Beam Current
- Deuteron Particle Beam: 15 MeV Energy, 250  $\mu\text{A}$  Beam Current
- Alpha Particle Beam: 35 MeV Energy, 100  $\mu\text{A}$  Beam Current



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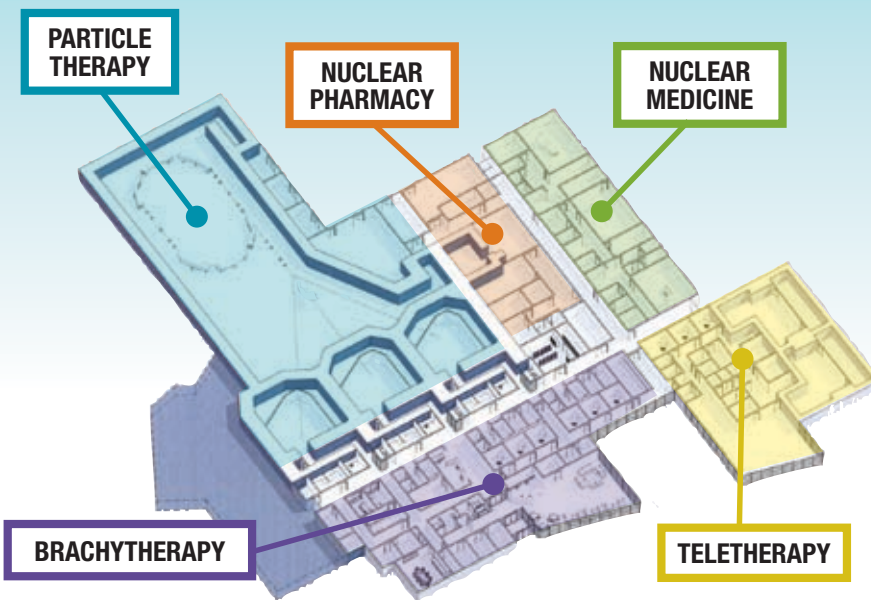
<b>NEW Best Model 200</b>	<b>1–9 MeV</b>	Low energy, self-shielded compact system capable of producing: <sup>18</sup> FDG, Na <sup>18</sup> F, <sup>18</sup> F-MISO, <sup>18</sup> FLT, <sup>18</sup> F-Choline, <sup>18</sup> F-DOPA, <sup>18</sup> F-PSMA, <sup>11</sup> C, <sup>13</sup> N, <sup>68</sup> Ga and more!
<b>NEW Best Cyclotrons</b>	<b>1–3 MeV</b>	Deuterons for materials analysis (Patent Pending)
	<b>70–150 MeV</b>	For Proton Therapy (Patent Pending)
	<b>3–90 MeV</b>	High current proton beams for neutron production and delivery (Patent Pending)
<b>Best 15p Cyclotron</b>	<b>1–15 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 20u/25p Cyclotrons</b>	<b>20, 15–25 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 35p/35adp Cyclotrons</b>	<b>15–35 MeV</b>	Proton or alpha/deuteron/proton, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 70p Cyclotron</b>	<b>35–70 MeV</b>	Proton only, capable of high current up to 1000 Micro Amps, for medical radioisotopes
<b>Best 150p Cyclotron</b>	<b>From 70 MeV up to 150 MeV</b>	For all Medical Treatments including Benign and Malignant Tumors, Neurological, Eye, Head/Neck, Pediatric, Lung Cancers, Vascular/Cardiac/Stenosis /Ablation, etc. (Patent Pending)

## NEW! Best Model 150p Cyclotron for Proton Therapy (Patent Pending)

- From 70 MeV up to 150 MeV Non-Variable Energy
- Dedicated for Proton Therapy with two beam lines & two treatment rooms
- For all Medical Treatments including: Benign & Malignant Tumors, Neurological, Eye, Head/Neck, Pediatric, Lung Cancers, Vascular/ Cardiac/Stenosis/Ablation, etc.



## Best Particle Therapy 400 MeV ion Rapid Cycling Medical Synchrotron (iRCMS) for Proton-to-Carbon, Variable Energy Heavy Ion Therapy, with or without Gantries — Single and Multi-Room Solutions



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



**BEST RADIATION THERAPY & DIAGNOSTIC CENTER**

ion Rapid Cycling Medical Synchrotron (iRCMS) Racetrack

Best Medical International 7643 Fullerton Road, Springfield, VA 22153 tel: 703 451 2378

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