

IT-Based Ultra-Power-Saving and Ultra-Thin Cyclotron

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Technology description

In the early diagnosis of cancer, brain tumors and dementia, the nuclear medicine examination device, the positron tomographic camera (PET), uses the radiation drug (FDG). The radioisotope (RI) needed to produce the drug requires a cyclotron (Cyclotron).

IT-based ultra-small automatic cyclotron (electron beam energy 9MeV, RF electric 20KW) technology that can be set up in smaller places such as small PET clinics

After the production of a small amount of radioisotopes, the synthetic radiopharmaceuticals (FDG), reduce the unit price of radioisotope production and provide customers with high-resolution images. Radioisotope production and PET connection using ultra-small cyclotron

Application area

Medical Radiological Diagnostic Equipment, Physical Measurement of Semiconductor Materials, Non-destructive Testing, Industrial Waste Treatment

Institution

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