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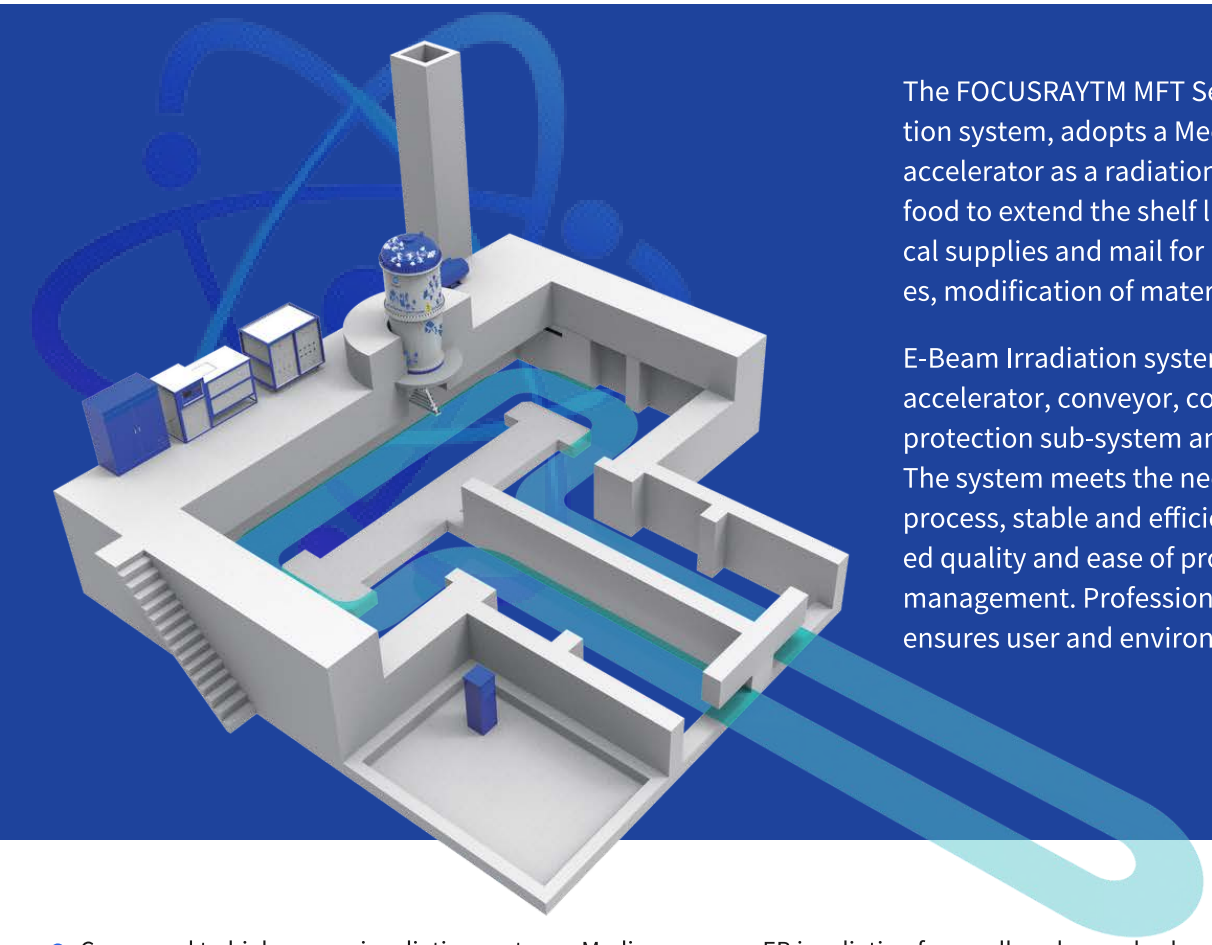
FOCUSRAY™ Medium energy EB irradiation system for small package online medical supplies

FOCUSRAY



The FOCUSRAYTM MFT Series of E-Beam irradiation system, adopts a Medium -energy electron HV accelerator as a radiation source for process of food to extend the shelf life, sterilization of medical supplies and mail for health and safety purposes, modification of materials for new properties.

E-Beam Irradiation system includes irradiation accelerator, conveyor, control, and radiation protection sub-system and management software. The system meets the needs of the irradiation process, stable and efficient to ensure the irradiated quality and ease of production and process management. Professional radiation safety design ensures user and environmental safety.

- Compared to high energy irradiation system，Medium -energy EB irradiation for small package, also has no secondary pollution; faster processing ability; more output ability； less concrete construction； Increased energy efficiency ratio by 8 times . Heart beating cheaper purchase prices and construction costs. Surprisingly low maintenance costs.
- Accelerator is partially self-shielding, Suitable for online production or in-house irradiation application.
- Decentralized irradiation model: Small packages of medical supplies can be irradiated before they are packed into large boxes, rather than having to be transported to a centralized irradiation centre.
- It is easy to install, extremely stable performance, long-running (> 7000 hours / year)
- It Can be directly connected to the user pipeline , Most small medical supplies can be irradiated single-side or double-side.
- With convenient operating system. It achieves the functions including the high simulation interface, POST, fault alarm, automatic records etc.
- Information management by professional technology software.

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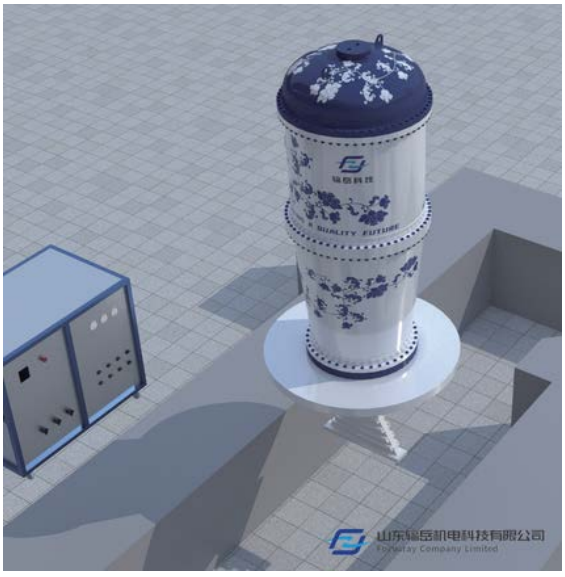

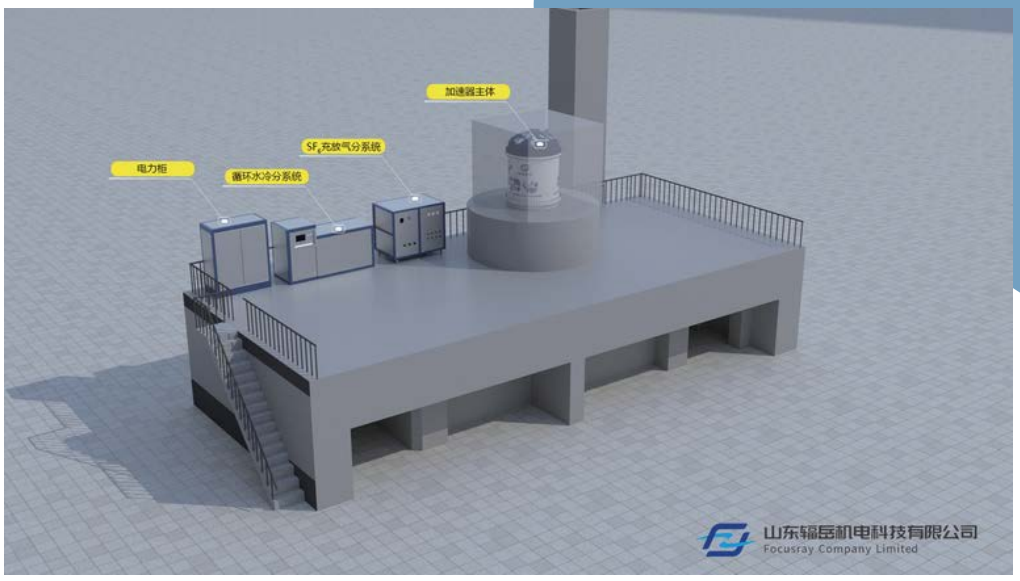

	FYMA025100	FYMA0125100
Energy/Power	2.5MeV/100kW	1.25MeV/100kW
Dose range(once)	1kGy~100kGy	1kGy~100kGy
Surface uniformity of dose	±5%	±5%
Effective depth of water (Uniformity≤2，double-side irradiated)	24mm	12mm
Irradiation speed	10mm/s ～150mm/s	10mm/s ～150mm/s
Maximum throughput (for 25kGy)	11.5 ton/hour	11.5 ton/hour
area of shielding bunker	200m^2	180m^2
Max-height of system	9.4m	9m
Concrete consumption	800 m^3	700 m^3
Conveyor mode	Small package conveying, automatic turning	Small package conveying, automatic turning
Application fields	Small package Food / Medical supplies etc. integrated irradiation process	Small package Food / Medical supplies etc. integrated irradiation process