

NUCTECH™ IS Series

E-Beam Irradiation System



www.nuctech.com

EN

Technical Features

- Irradiation with packing, no secondary pollution; fast processing; non-toxic no residue, no radioactive sources scrap; to shutdown without rays, safe and reliable
- Accelerator is lightweight, easy to install, stable performance, long-running (> 6000 hours / year)
- Ensure the transmission smooth for all kinds of good with large-range sizes and precise speed for the strict dose
- With convenient operating system. Achieve the functions including the high simulation interface, POST, fault alarm, automatic records etc.
- Information management by professional technology software

Summary

The NUCTECH™ IS Series of E-Beam irradiation system, adopts a high-energy electron linear 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 accelerators, 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.



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Technical Data

General Specifications

Type of source	Electron beam by accelerator
Irradiation time	Few minutes
Standard operator number	One system control operator and several porter
Boundary dose rate	≤2.5μSv/h

Products	IS1020	IS0705	IS0502
Energy/Power	10MeV/20kW	7.5MeV/5kW	5MeV/2kW
Dose range(once)	1kGy ~ 100kGy	0.05 kGy ~ 40 kGy	0.5 kGy ~ 20kGy
Surface uniformity of dose	±5%	±5%	±5%
Effective depth of water(Uniformity ≤2,double-side irradiated)	96mm	72mm	48mm
Irradiation speed	2mm/s ~ 200mm/s	2mm/s ~ 200mm/s	2mm/s ~ 200mm/s
Throughput (for 4kGy)	10.8 ton/hour	2.7 ton/hour	1.08 ton/hour
area of Shield fortress	300m ²	200 m ²	<100 m ²
Max-height of Shield fortress	8m	7m	6m
Concrete consumption	1000 m ³	800 m ³	600 m ³
storage yard area (recommend)	4000 m ²	1500 m ²	500 m ²
Application fields	Food / Medical supplies etc. integrated irradiation process	Food / Medical supplies etc. integrated irradiation process	Mails, banknotes sterilization

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NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM (ISO9001:2008)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM (ISO14001:2004)
NUCTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT
SYSTEM(GB/T28001-2011)

