

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

NUCTECH COMPANY LIMITED
Address: 2/F Block A, Tongfang Building,
Shuangqinglu, Haidian District,
Beijing 100084, P.R.China
Tel: +8610 62780909
Fax: +8610 62788896/62784270
Http://www.nuctech.com

NUCTECH SYDNEY PTY LTD.
Address: Suite 4.04, 77 Dunning Avenue,
Rosebery NSW 2018 Australia
Tel: +612 96622307/96622317
Fax: +612 96622371

NUCTECH HONG KONG COMPANY LTD.
Address: Room 1602, The Metropolis Tower,
10 Metropolis Drive, Hunghom
Kowloon Hong Kong
Tel: +852 27221828
Fax: +852 27221849

**NUCTECH WARSAW COMPANY
LIMITED SP. Z O.O.**
Address: ul. Pandy 18
02-202 Warsaw Poland
Tel: +48 22 6591545
Fax: +48 22 6581483

**NUCTECH COMPANY LTD.
SUCURSAL ARGENTINA**
Address: Juana Azurduy 1520, Piso 4
Oficina C, Buenos Aires,
Argentina
Tel: +5411 47045924
Fax: +5411 47045459
Mobile: +54911 66630041/65314065

**NUCTECH COMPANY LTD.
SUCURSAL VENEZUELA**
Address: Av. Francisco de Miranda, Centro
Plaza, Torre A Piso 19, Oficina 19-C-D,
Caracas, Venezuela
Tel: +58212 2852594/2854194
Fax: +58212 2854194
Mobile: +58412 3217001

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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/T28001-2001)

