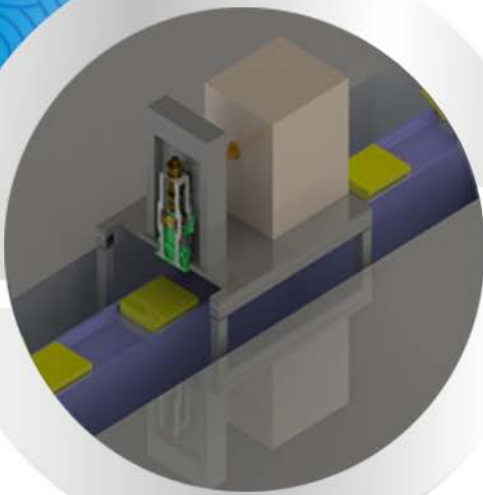
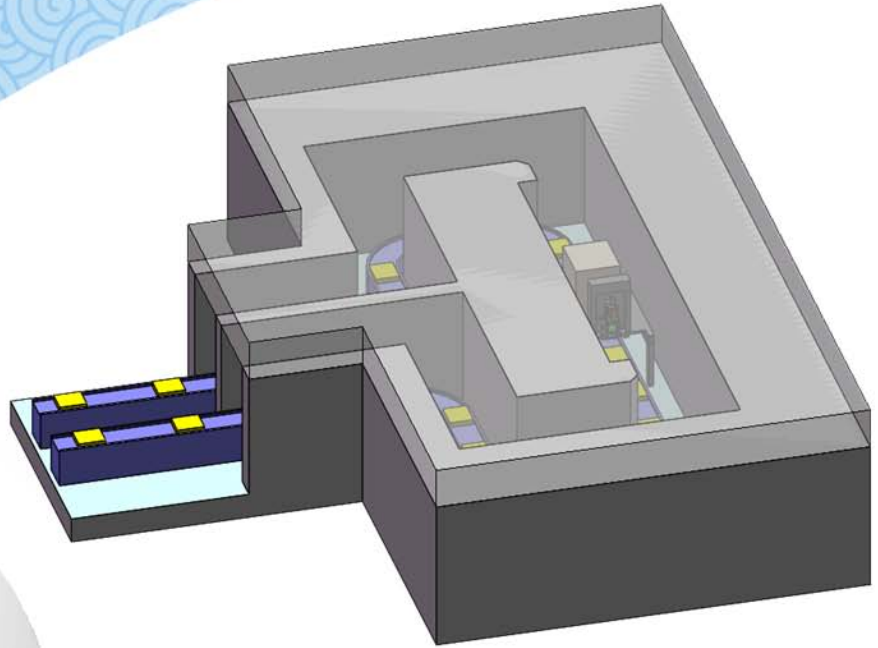


NUCTECH™ IS Series

IS0502 E-Beam Irradiation System



Technical Features

- **Compact structure.** The accelerator is compact in size and structure, and the system has a small occupied area.
- **Wide dose range.** 1Gy to 40kGy or higher.
- **No residue.** The system will not produce any radioactivity and chemical residue, and any waste water or material.
- **No secondary pollution.** The system can sterilize the deep-seated microorganisms and pathogens thoroughly without touching goods.
- **Safety.** Executing multiple safety measures to ensure the safety .
- **Easy to manage.** Utilizing advanced automation process to make the operators working easily.

Summary

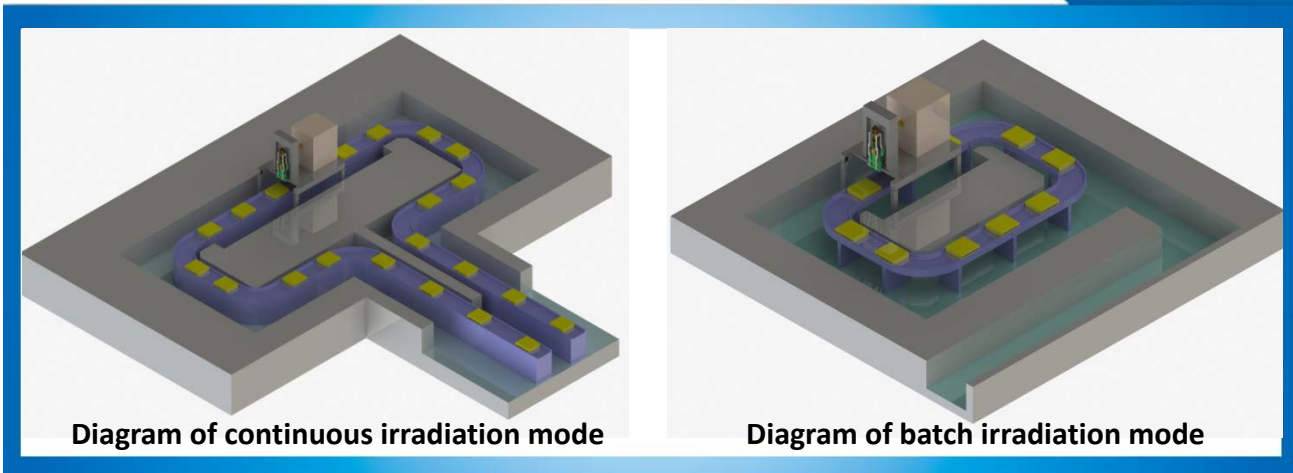
NUCTECH™ IS0502 E-beam Irradiation System adopts linear electron accelerator to generate electron beam for irradiation sterilization of small-scale products, foodstuffs or instruments etc.

Linear electron accelerator technology is the core of NUCTECH™ IS0502 system, integrated with shielding technique, electronic technique, precision machinery and control technique. Professional radiation safety design ensures operators and environmental safety.

IS0502 system can match of two modes of convey system: continuous irradiation mode and batch irradiation mode, and users can choose convey system based on their needs and product characteristics.



IS0502 E-beam irradiation System



Technical Data

Item	Specification
Radiation source	Linear electron accelerator
Type of ray	E-beam
Energy/Power	5MeV/2kW
Surface uniformity of dose	≤±5%
Irradiation speed	5mm/s ~150mm/s
Dose range(once, e-beam)	1kGy~40kGy
Max. width of scanned goods	450mm
Occupied area of batch irradiation mode	100m ²
Occupied area of continuous irradiation mode	200m ²
Temperature and humidity	
Operation temperature	5°C ~ 40°C (inside the vehicle)
Relative humidity	0% ~95%, non-condensing
Radiation safety	
Maximum environment radiation level ^①	≤2.5μSv/h
Dose rate for operator ^②	≤1.0mSv
Dose rate for public ^③	≤0.1mSv

①Maximum environment radiation level: measured outside the machine, which is 0.3m far away from the irradiator.

②Assumed that the working time is 4000 hours per year, 1/4 of which (1000 hours) is the accelerator beam on.

③Occupancy factor: 1/16.



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