

Industrial applications

Short overview

Sterilization Processing Comparison



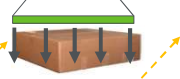
Ethylene Oxide



E-beam



E-Beam



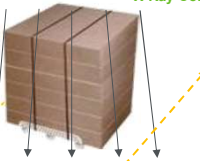
Same technologies from a radiation point of view

X-ray



Electron → X-Ray Converter

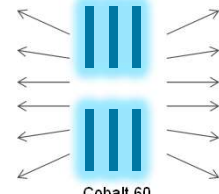
X-rays



Gamma



Gamma Rays

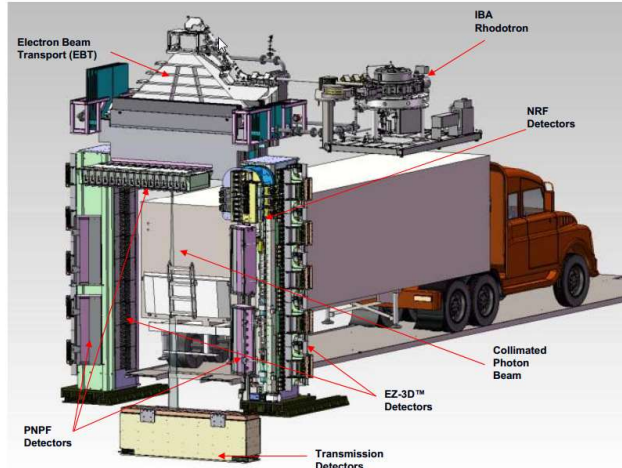


Cobalt 60



Save and Save Lives

Cargo screening => TT50



This full configuration identifies anomalies and resolves potential threats

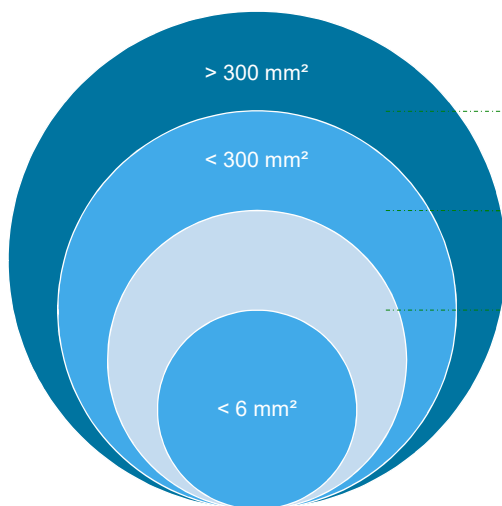
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Protect, Enhance and Save Lives



Cables treatment with electrons: Dynamitron => crosslinking

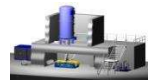


Not crosslinked with radiation

3 MeV
Multiple applications

1.5 MeV
Multiple applications

800 keV
Automotive



Protect, Enhance and Save Lives



IBA Industrial's Product Portfolio



Dynamitron

0.5 -> 5 MeV | 160 mA
Electron beam



Main application
E-beam Crosslinking

Rhodotron

3 -> 10 MeV | 42 mA | 420 kW
Electron beam and X-rays



Main application
E-beam box sterilization

eXelis

5 - 7 MeV | 80 mA | 560kW
X-rays



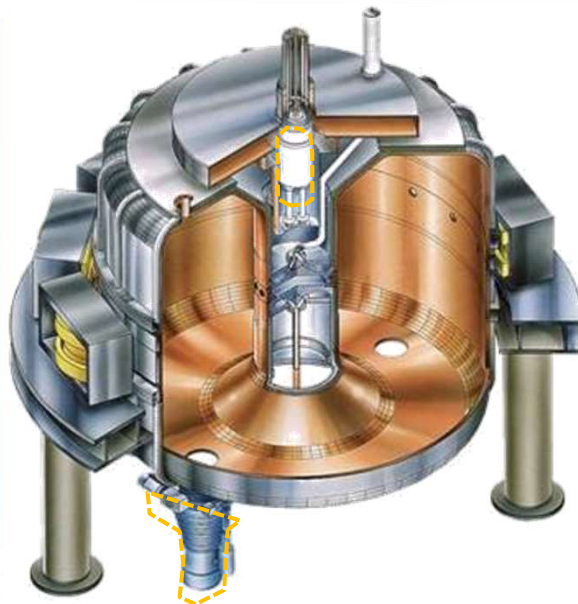
Main application
X-ray pallet sterilization

Protect, Enhance and Save Lives

Linac's reach about 40-60 kW

Brief explanation of the Rhodotron:

The main components



RF Cavity
E-Gun
Magnets
Final Power Amplifier

RF tube (Tetrode)
Vacuum system

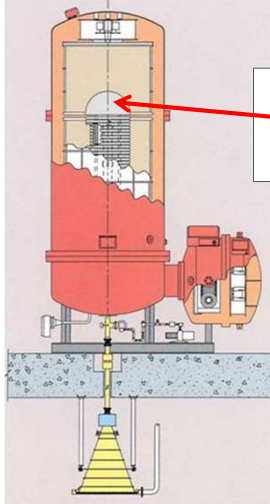
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Dynamitron

High Voltage generation => similar to a Cockcroft-Walton

Iba



Dees and rectifier stack
Dome
SF6

