



Preview



ROTEX-I

*Iridium-192 based Remotely Operated
Tungsten Shielded Industrial
Radiography Exposure Device*



Board of Radiation & Isotope Technology
(UNIT OF DEPT. OF ATOMIC ENERGY)
BRIT-BARC Vashi Complex, Sector-20 Vashi, Navi Mumbai 400 703.
www.britatom.gov.in



Technical Specifications

Model: ROTEX-I

Isotope: Ir-192

Half Life: 74 days

Gamma Energy Range: 0.31 to 0.60 MeV

Approx. Working Thickness for Steel: 5 to 50 mm

Device/Source Maximum Capacity: 65 Ci (2.40 TBq)

Exposure Device Details

Application: Industrial Gamma Radiography

Class of the Device: Portable Type

Category of the Device: Cat. II Device

Shielding Material: Tungsten Heavy Alloy

Material of Construction: Type-304 Stainless Steel

Outer Dimensions of the Device:

305 mm (L) x 148 mm (D)

Weight of the Device: 27 kg

Basic Construction Standard

The device is designed & manufactured as per the AERB Safety Code no. AERB/NRF-TS/SC-1, (rev-1), IAEA Safety Standards SSR-6; 2018, ISO 3999-1;2004 & AERB safety standard no. AERB/RF-IR/SS-1 (Rev. 1)