

959M SCAR Projector



Applications

The Model 959M portable gamma radiographic exposure device is specifically designed as a Small Controlled Area Radiography (SCAR) system. The SCAR projector is used primarily for the radiography of standard or difficult joint geometries without disruption and the need for large barrier areas.

The system may be used with a maximum of 15 curies of Iridium-192 or 81 curies of Selenium-75. Sources of lesser activity are available.

Features

- Highly directional beam
- Reduces radiation dose
- No risk of source detachment
- 24 Hour radiography
- Reduces shutdown duration
- More production time for all trades
- Inspection through insulation for corrosion
- No effect on nucleonic level alarms
- Locks to prevent unauthorized operation

Exposure Device

- Consists of a stainless steel housing which contains a depleted uranium shield
- Serves as the storage and transport package for the radioactive source

Control Unit

- Pressurizes the pneumatic cylinder which moves the source assembly from its shielded position to the beam port

Source Assembly

- Contains either AEA Technology QSA, Inc. Model X.540/1 or Model 875 series inner source capsule
- Fabricated from stainless steel and seal welded
- Complies with or exceeds the criteria for classification C43313 in accordance with International Standard ISO 2919 (1980) and American National Standard N542 (1977)

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Technical Specifications

Exposure Device

Length:
28 centimeters (11 in)

Diameter:
11.4 centimeters (4.5 in)

Mass:
18.6 kilograms (41 lb)

Shielding Depleted Uranium:
11 kilograms (24 lb)

Capacity:
15 Ci, Ir-192 or 81 Ci, Se-75

Source Assembly:
959M04

Source Capsule:
875 series inner capsule or X.540/1

Special Form Certification:
USA/0392/S and USA/0502S

Control Console

Length:
273 millimeters (10.75 in)

Width:
222 millimeters (8.75 in)

Height:
216 millimeters (8.5 in)

Mass:
3.9 kilograms (8.5 lb)