

## SPEC-150 Radiography Exposure Device



**The SPEC-150 system is designed to maximize SAFETY, RELIABILITY, DURABILITY, AND LOW MAINTENANCE to reduce liability and yield higher profits.**

### **DURABILITY**

Constructed of titanium and stainless steel, the SPEC-150 withstands severe accidental impacts and is highly corrosion-resistant.

### **SAFETY**

State-of-the-art safety features include the Automatic Securing Mechanism (ASM) which cannot "trip" with the source assembly out, cannot be defeated with vise-grips or other mechanical means, and has no dangerous "source position" indicator. Innovative lock-step set up design eliminates control hookup errors and source/drive cable misconnects.

### **RELIABILITY**

No moving parts are involved with the ASM design. The SPEC-150 system is designed to significantly limit the ingress of dirt and foreign materials, in all environments and working conditions, to protect against malfunctions.

### **LOW MAINTENANCE**

Absolutely no user disassembly for cleaning or maintenance is required. The SPEC-150 is completely lubrication-free. Costly down-time due to maintenance and returns to the manufacturer for repairs is virtually eliminated.

### **OPTIONAL ANNUAL MAINTENANCE PROGRAM**

The SPEC-150 maintenance program helps control costs and keep equipment at peak performance. Dangerous equipment failures which may cause worker injury and subject the employer to legal liability are minimized.

### **OTHER DESIGN FEATURES**

Low center of gravity for "topple-proof" profile.  
Low radiation level at the outlet nipple.  
Permanent warning and caution labels.  
Tie-down holes for safety harness.



## Specifications

### CONSTRUCTION

Fully welded titanium with some stainless steel fittings.

### SHIELD

Depleted Uranium 37 lbs. (17 kg) with durable titanium S-tube

### WEIGHT

Approximately 53 lbs. (24 kg)

### RATED CAPACITY

150 curies (125ci + 20%) 5,500 Gbq

### DIMENSIONS

Length: 14 1/2"(368mm) Width: 5 3/8" (137mm) Height: 5" 9/16 (141mm)

### SOURCES

SPEC Model G-60 source assembly. The G-60 can be transported in the SPEC C-1 source exchanger.

### ASSOCIATED EQUIPMENT

The SPEC-150 is authorized for use with approved control assemblies, flexible "yellow" guide tubes, low temperature guide tubes, rigid stainless steel "J" tubes and straight tubes, collimators, and the remote unsecuring mechanisms (RUM) that are designed, tested, manufactured and inspected by SPEC. The maximum standard guide tube length is 21 feet. Control assemblies for the SPEC 2-T may be converted for use with the SPEC-150 by using an adapter. It is not necessary to purchase new associated equipment. Replacement sources and associated equipment manufactured by other companies may be submitted for approval for use with the SPEC-150.

### COMPLIANCE

The SPEC-150 System meets ANSI N432-1980 and U.S. Nuclear Regulatory Commission 10 CFR Part 34.20 regulations. The Louisiana Radiation Protection Division Registry No. is LA612D111S. U.S. DOT approval [Certificate of Compliance No. is USA/9263/B\(U\)-85](#). The Atomic Energy Control Board (AECB) Canadian Endorsement No. is [CDN/E170/-85 \(REV. 0\)](#). The G-60 source meets ANSI N542 Classification 77C43515, U.S. DOT 10 CFR Part 49 and IAEA requirements for Special Form Radioactive Material. It is authorized for transport under IAEA [Certificate of Competent Authority No. USA/0095/S](#). Fabrication, inspection and repair is controlled by USNRC [Quality Assurance Program No. 0102](#).