

## 979 Crawler Head



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The Model 979 crawler head is exclusively designed for use with gamma radiography crawlers containing a Selenium-75 source.

### Applications

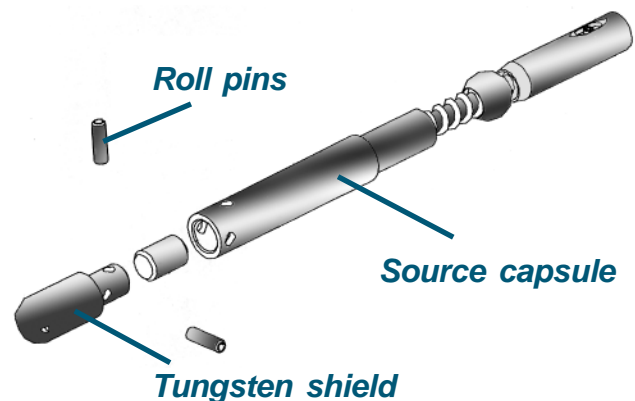
- Self propelled pipeline crawlers inserted into pipelines with inner diameters of three inches (7.62 cm) or greater
- Used to perform panoramic radiography of circumferential welds and the adjacent heat effected areas on pipelines

### Exposure Device

- Consists of a stainless steel housing which contains a tungsten shield
- Supplied with a stainless steel, key-lockable storage cover
- Serves as the Type A storage and transport packaging for the radioactive source
- Used in conjunction with AEA Technology QSA, Inc. Model 97941 Source Assembly

### Source Assembly

- Contains an AEA Technology QSA, Inc. Model X540/1 series inner source capsule
- Designed to be reusable
- Complies with or exceeds the criteria for classification C63344 in accordance with International Standard ISO 2919 (1980) and American National Standard N542 (1977)



## **Sales**

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## ***Technical Specifications***

**Length:**  
7.5 inches (19.5 cm)

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**Diameter:**  
2.54 inches (6.5 cm)

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**Mass:**  
9.6 to 13.9 pounds (4.4 to 5.9 kg)

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**Shielding:**  
Tungsten 5.8 pounds (2.6 kg)  
Lead for collimator 3.8 to 8.1 pounds (1.7 to 3.7 kg)

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**Capacity:**  
25 Curies (925 GBq) of Selenium-75

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**Source Assembly:**  
Model 97941

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

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

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**Operating Temperature:**  
-40° to 300° F (-40° to 149° C)

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**Actuator for Model 979:**  
The Model 979 crawler head is compatible for use with mechanical or electromechanical actuators. The actuators are gamma crawler specific and are specified by end user.

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**Inspection Requirements:**  
A daily inspection of the device for obvious defects is required. Complete annual servicing is available during source reloading at the manufacturer.

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**Construction:**  
Tungsten shielding is encased in a welded tubular stainless steel shell. The beam port contains lead to shape the emergent primary beam when the source assembly is in the exposure mode. The shell is partially sealed to prevent the ingress of mud, sand, moisture, and liquids during use. The exposure device should not be submerged in liquids during use.