

Physics Accessories Kit

Benefits

- Pullback travel indicator verifies distance accuracy
- X-ray source length gauge confirms the source length is within the specification and provides the source length position offset dimension
- Applicator depth gauge verifies the balloon applicator lumen length is within the specification and gathers the applicator length position offset dimension
- CT-compatible marker catheter represents possible x-ray source pullback positions within a balloon applicator and is visible using a CT scanner
- Fluoro-compatible marker catheter represents potential x-ray source pullback positions within a balloon applicator and is visible with fluoroscopic imaging
- Storage and carrying case permit convenient portability and ensure the protection of the kit

The versatile Xoft® Axxent® Electronic Brachytherapy (eBx®) System® utilizes breakthrough electronic brachytherapy technology to provide expanded treatment options for a range of cancers. With the Xoft System, highly focused therapeutic radiation of the disease target is possible in a minimally shielded setting, while sparing surrounding healthy tissue.

The Axxent Physics Accessories Kit allows physicists to perform quality assurance tests to confirm that the Xoft System is operating properly. Prior to treatment, the kit, with its specialized gauges and catheters, may be used to confirm key system parameters and component specifications.

The shielded test fixture allows quality assurance tests of the Xoft System while concurrently providing a shielded environment for the x-ray source. The kit is a valuable tool that ensures proper functioning of the Xoft System.



Physics Accessories Kit

Specifications	Catalog Number
Axxent Physics Accessories Kit	F5830
Pullback Travel Indicator	
X-ray Source Length Gauge	
Marker Catheter – CT Scan-compatible	
Marker Catheter – Fluoro-compatible	
Shielded Test Fixture and Case	
Pullback Travel Indicator	750020
Millimeter ruler with major markers at 1.00 +/- 0.02 cm intervals (separated with nine minor markers at 0.10 cm intervals)	
Applicator Depth Gauge	750023
Reference mark at 24.24 cm	
Five minor reference markers at 0.10 cm intervals	
X-ray Source Length Gauge	750022
Reference mark at 25.0 +/- 0.02 cm	
Five minor reference markers at 0.10 cm intervals	
Marker Catheters	750024 CT Scan-compatible
Marks at 0.5 cm intervals	750025 Fluoro-compatible
Marks cover entire dwell position range of 7.5 cm from first to last allowable dwell position	
Shielded Test Fixture and Case	750027
Allows pullback accuracy and source anisotropy measurements with radiochromic film	
Allows source stability and anisotropy measurements with selected ionization chambers	
Inserts provided for Exradin A16, A18, A19 and PTW 31006 chambers (chambers not included)	
During X-ray source operation, exposure rate at 1 m from the test fixture is less than 0.1 mR/hr	
Ruler and reference mark calibrations should be confirmed at 36 month intervals	