

PRELIMINARY
11 June 2007

Product: External Collimator for the Linatron K-15 Accelerator

General Description:

This is a four jaw External Collimator with optional Rotation-Control. It is designed to work with the K-15 Linatron System. It features 4 independent 24 volt D.C. drive motors, supplied from a single multi-pin connector. Remote position readouts are available to the K-15 system from integral 10 turn potentiometers

Specifications:

Field Size:	15 degrees Vertical x 20 degrees Horizontal
Adjustable:	0 to +/- 7.5 degrees on the vertical axis (up and down) 0 to +/- 10 degrees on the horizontal axis (left to right)
Degree Indication:	Local readout using a mechanical dial indicator Remote readout available to K-15 Linatron via a 10 turn potentiometer (variable resistance) signal to Varian interface.
Collimator speed:	0.25 +/- 0.12 degrees/sec/jaw
Accuracy	0.25 degrees per jaw
Weight estimate:	1,000.00 lbs
Color:	Matches Linatron K-15
Leakage through collimator:	Less than 2% at 15 MeV
Rotation range:	+/- 50 degrees (rotation an optional feature)
Rotation speed:	0.1 to 0.25 degrees / sec min (single speed)
Local readout:	Mechanically linked dial with Tic marks every 1 degree and numeric labels every 5 degrees.
Power requirements:	24 VDC
Backlash:	</= 1 degree
Concentricity with X-ray axis:	2mm

Photographs are for general reference only

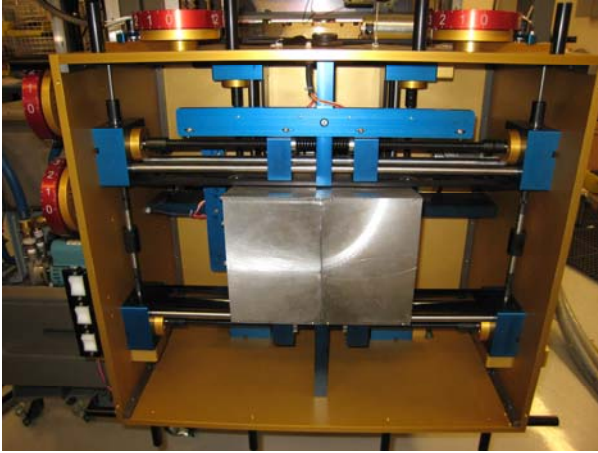


Figure 1: K-15 Collimator front view (cover removed)

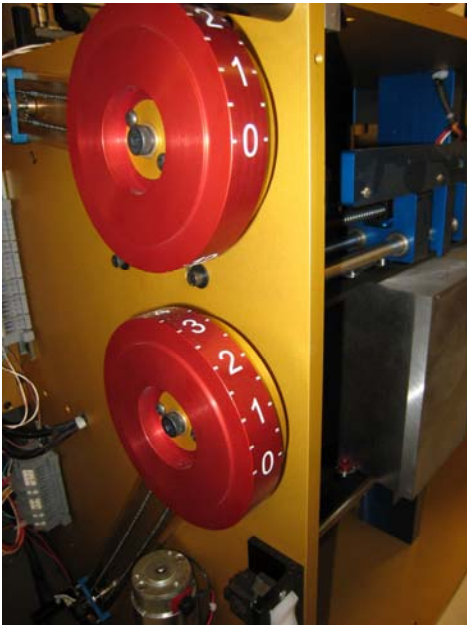


Figure 2: K-15 Collimator Jaw Position Indicator Dials

This preliminary specification is subject to change without notice. Before placing orders, please consult factory for the latest specification for this product.