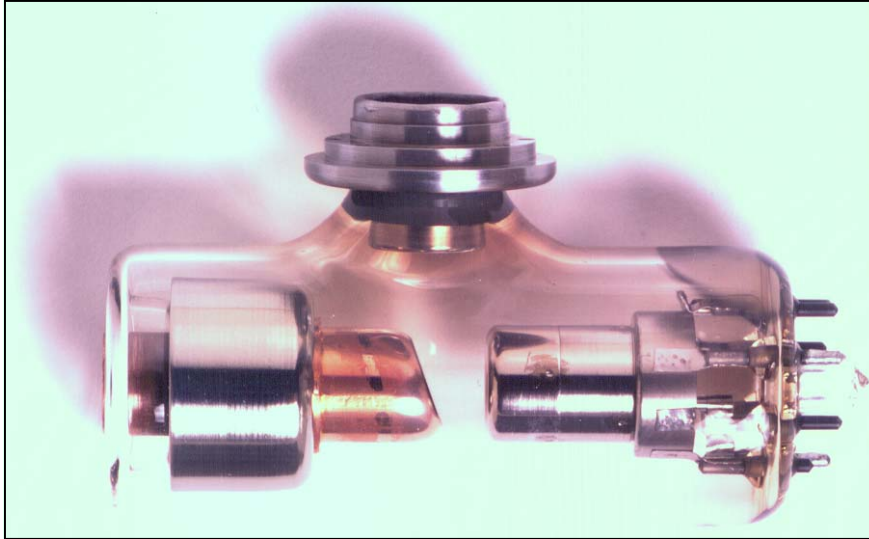


Series 5000

TF5011 X-Ray Tube



Oxford Instruments' series 5000 TF5011 is a highly popular and proven side window X-ray tube. Currently in use for many industrial applications, the 5000 series features an electron gun assembly capable of producing very small focal spots from 100 microns. The tube is operated in a positive anode mode with the filament grounded. The standard exit window is 0.005 inch Be, and many different target materials are available. Note that smallest possible spot size depends upon target material chosen, as shown in the chart below.

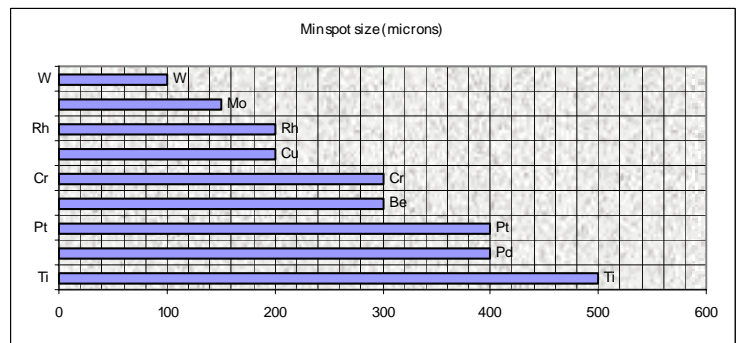
Specifications

Anode current	0 to 1.0 mA
Anode (target) voltage	4Kv to 50Kv
Maximum power	50 watts continuous
Filament voltage	2.0V @ 50Kv/1mA
Filament current	1.7 amps
Stability	0.2% over 4 hours
Focal spot size (nominal*)	From 100 microns
Mounting flange	Many designs available
Cathode type	W filament
Dimensions	3.3" X 1.2" approx.
weight	.25 lbs. (550 grams)
Cooling method	Oil immersion

*nominal per IEC336, JISZ47045, NEMA XR5

Maximum oil temperature not to exceed 75 degrees Celsius.

Minimum Spot Size By Target Material at 50 W



- W, Mo, Rh, Ag, Cu, Ti (& other) anode targets
- 100 Watt water cooled model available (50Kv, 2.0mA)
- Maximum power rating determined by target material
- 75W (50kV, 1.5mA) version available

Warning: This tube produces X-rays through the glass as well as the output port and must only be used in a suitable radiation shielded enclosure or test chamber.