



*Quality and Value
Through Engineering*

- ◆ Substantial Extended Life
- ◆ Lower Overall Cost



This side view of part numbers 30-5732 and 30-5733 showing the overlap of the graphite liners. Note also the parts are of uniform thickness.

Time to change this assembly is a minimum of 12 hours and often 2 days or more. Extending the time between PM's is a major savings to the Fab.

Buy a Beam Liner Assembly and the replace parts as necessary for the maximum savings.

**VSEA – Applied Materials
Models 300XP, 350D/DE, DF4U/DF3000**

**BEAMLINER OUTER WAVEGUIDE
LINER ASSEMBLY**



Signet Beamline Outer Waverguide Liner Assy.
The Assembly consists of these Signet Part Numbers
30-5805, 30-5732, 30-5733 and 03-6737

Signet designed this improved waveguide liner to extend the parts useful life over the OEM design. The OEM part fails when the beam burns through the aluminum base between the graphite plates. The OEM design uses plates that have a gap between them and are thinner on the ends then in the middle. As a result the beam wears these parts faster and allows the beam to have a direct line to the aluminum which it burns through as soon as this happens.

The Signet enhanced waveguide beam liner uses overlapping graphite plates that are uniform thickness (the same as the thickest portion of the OEM plates). Because the plates have almost the same thickness (minus a small gap between the overlapping sections) they will wear uniformly. In addition the OEM puts the mounting screws in the center of the plates which is where the ion beam strikes the plates. When it wears the graphite down to the screws they are at end of life. The Signet enhanced beam liner moved the screws to one side where there is little beam wear further extending the life of the liner.

Customers should get at least a 50% increase in life and maybe even double the life of the OEM one.

Signet P/N	OEM Part #	Description	Qty
30-5796	F5796001 Ref.	Beam Liner Assembly	1
30-5805	n/a	Liner Base	1
30-5733	n/a	Beam Liner Flat	2
30-5732	n/a	Beam Liner Curved	4
03-6737	1236200606	6-32 x 3/8 Screw, BH	12

Ref. = Design Alteration of OEM Part