

Weight

350 or 440 mm

Model 06X30RF 06X22RF Beam Current 50 - 500mA Beam Voltage 50 - 1500eV Grid Materials Molybdenum, Graphite Water Cooling Antenna Only

11.9 kg (26.5 lbs.)

RF Linear Sources

Our Linear ion beam sources are useful for in-line applications such as roll-to-roll or web coaters. The 6x30cm RF ion beam source can be equipped with either 6x30cm collimated graphite grids or 6x22cm shaped molybdenum grids, allowing greater process flexibility with a single ion source. Additionally, the gas, RF antenna cooling water, and DC connections have been placed on the side of the ion source instead of the rear giving the ion source more placement flexibility inside the chamber. We also offer a standard 6x22cm ion source with most of the same benefits, but constrained to 6x22cm molybdenum grids.

As with all RF ion sources, these can be run with both inert and reactive gases allowing a huge range of processes. With a maximum of 500mA and 1500V, these linear ion sources can handle both high-rate, high-throughput and precision assist or etch operations.



INTERNAL MOUNT A

Plasma Process Group
RF Linear ion sources
are typically installed
with an Internal Mount
configuration. The maximum
distance from the RF vacuum
feedthrough is 18-inches.
The standard flanges for
this configuration are two
2.75 inch Conflat. Other
flange combinations are
available. The RF Matching
Network mounts directly to
the RF feedthrough.

BEAM ACCELERATOR RF POWER NEUTR	ALIZER
Voltage (V) Current (mA) Voltage (V) Current (mA) Forward (W) Reflected (W) Emissio	n (mA)
100 250 600 11 387 3 375	
250 300 500 15 435 4 450	
500 300 400 13 485 3 525	
1000 450 200 12 464 4 525	
1250 500 200 12 453 4 525	
1500 500 200 12 450 4 600	
100-1500 100 floor 200 3 210 3 150	

OPTIONS & ACCESSORIES							
Ion Source	06X30RF	6x30cm Ion Source	500mA / 1500V Limits				
	06X22RF	6x22cm Ion Source					
Interface Kits	505890A	Internal Mount	Includes two 2¾" CF Vacuum Feedthroughs and vacuum-side connections to source for RF Power, DC bias, and gas				
Neutralizer	504424B	RFN	Radio frequency – requires a mounting flange				
Common Neutralizer Flanges	504854A	2¾" CF RFN Flange	Each flange has a RFN matching network.				
	504891A	4.5" CF RFN Flange	_				
	504855A	6" CF RFN Flange					
Power Supply	IBEAM 703-1	1 series	RF Power, DC Bias, Control, and RFN Operation				
RF Matching	505914Ex	Source RF	Includes Matching Network & Controller for source				
Cable Kits	505752A	I-Beam 703 Cable Kit fo	r non-IBOX configurations				
Adapter Box	IBOX-104		Adapts connections to an Ion-Tech style configuration				

GRID OPTIONS				
6x30 Collimated	504761A	Graphite	2-grid, Graphite, Collimated	Etch
6x30 Divergent	504983A	Graphite	2-grid, Graphite, Divergent	Assist
6x22 Convergent	504750A	Molybdenum	3-grid, 25cm FP, Convergent	Sputter Deposit
6x22 Divergent	505779A	Molybdenum	3-grid, 25cm FP, Divergent	Assist