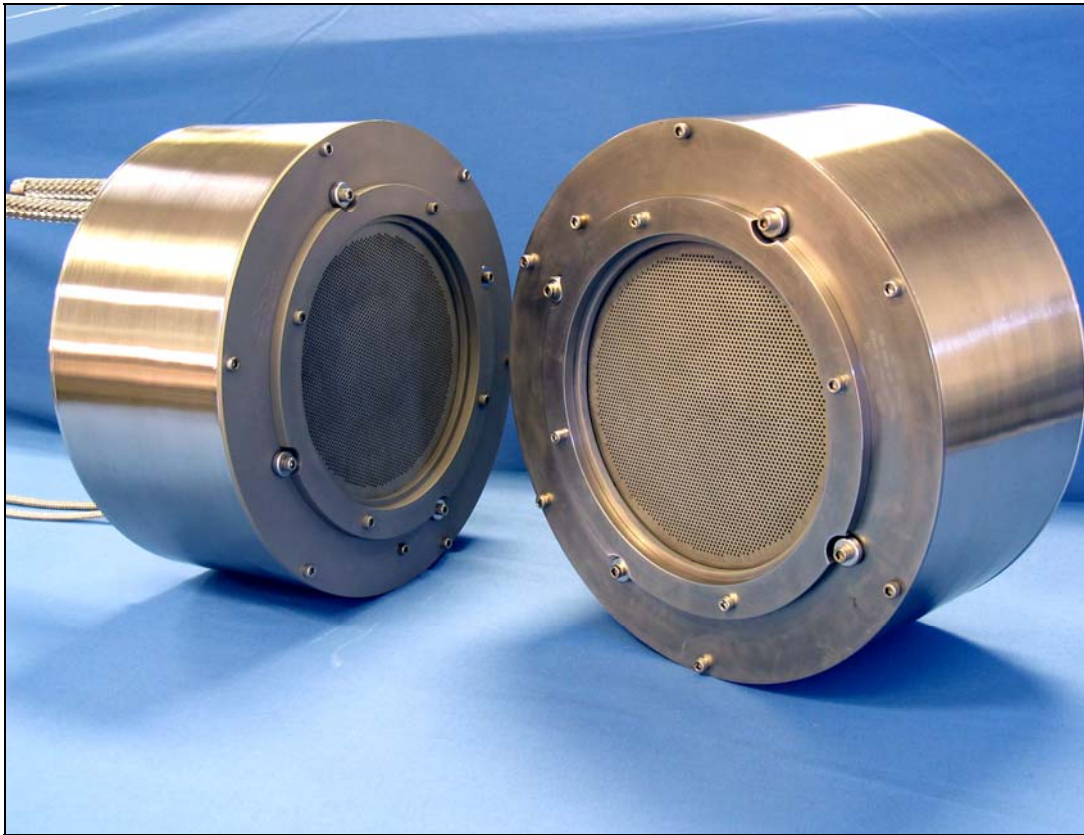




plasma process group

12 cm and 16 cm RF Ion Beam Sources



Features

- RF discharge (no filament)
- RF neutralizer
- versatile power range
- easy maintenance

Applications

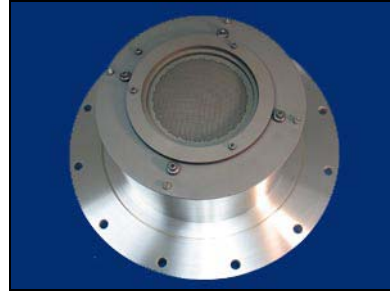
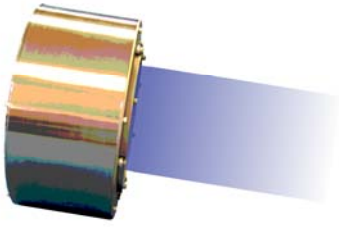
- sputter deposition
- etching
- ion beam assisted deposition
- materials research

Description

Plasma Process Group currently offers two RF ion beam sources: a 12 cm source, ideal for assist applications, and a 16 cm source, for deposition applications. Sources are designed for production environments; RF discharge (no filaments) minimizes maintenance requirements, and enables use with typical process gases including many reactive species.

Sources are typically flange-mounted, but custom mounting is available. Grid assemblies can be custom designed to shape the beam for your specific substrate and vacuum chamber. Every ion beam installation is unique; we're ready to help meet the requirements of your specific application.

Whether you're in research or production, Plasma Process Group is committed to providing the best support possible. Help is just a phone call away (or email if you prefer). Our people have many years of experience with ion beam sources, systems, and applications, and we're happy to share that with you. Give us a call.

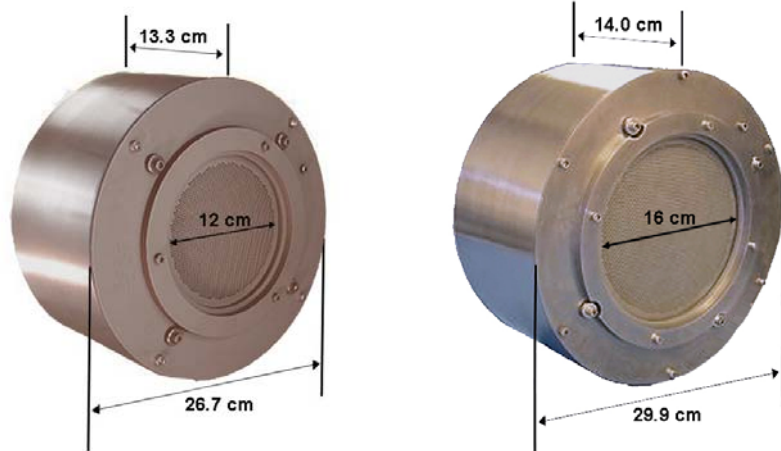
Specifications**12 cm Source****16 cm Source**

12 cm source (shown mounted on flange)



16 cm source

Ion source	12 cm	16 cm
Model number	12RF08	16RF08
Beam size at grids	12 cm	16 cm
Beam current	50-400 mA	100-600 mA
Beam energy	100-1500 eV	100-1500 eV
Grid material	Molybdenum	Molybdenum
Beam neutralization	RF Neutralizer	RF Neutralizer
Cooling	water cooled antenna & shroud	water cooled antenna & shroud
Power supply	I-BEAM™ 701	I-BEAM™ 701
Weight	6.8 Kg (15 lbs)	7.7 Kg (17 lbs)

Dimensions

Ordering Information: Ion sources are available with various flange mounting arrangements and kits to facilitate installation. Please contact us to configure your ion source.

Suggested Accessories:

IBEAM 701Pkg - 1	I-BEAM™ RF/RFN Power Supply w/RF generator, matching network and controller
504424B	RF Neutralizer assembly
504552A	AT-10 Matching network for source



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