

Quick guide to Source, Power Supply and Grid options

Sources

| Size | Type | Gas | Grid material | IBAD | E-beam Assist | Magnetron Assist | Applications |
|--------|------|-------|----------------|------|---------------|------------------|---|
| 3 cm | DC | Cat 1 | Graphite | Yes | No | No | Small target etch, substrate pre-clean |
| 6 cm | RF | Cat 2 | Moly | Yes | Yes | Yes | Wide area etch or assist, small target sputter |
| 8 cm | DC | Cat 1 | Graphite | Yes | No | No | Medium target etch and substrate pre-clean |
| 12 cm | RF | Cat 2 | Graphite, Moly | Yes | Yes | Yes | Wide area etch or assist, medium target sputter |
| 13 cm | DC | Cat 1 | Graphite, Moly | Yes | Yes | No | Wide area etch or assist, medium target sputter |
| 16 cm | RF | Cat 2 | Graphite, Moly | Yes | Yes | Yes | Large area etch, large target sputter |
| Linear | RF | Cat 2 | Graphite, Moly | Yes | Yes | Yes | Wide area etch, assist, and target sputter |

IBAD – ion beam assisted deposition

Category 1 gas selection – Most inert (Argon, Krypton, Xenon), Nitrogen, and Methane

Category 2 gas selection – Most inert (Argon, Krypton, Xenon), Oxygen, Nitrogen, Methane and Fluorine

Power Supplies and Neutralizers

| Size | Type | Neutralizer | Power supply |
|--------|------|-----------------|--------------|
| 3 cm | DC | Filament | IBEAM 601 |
| | | Plasma Bridge | IBEAM 602 |
| 6 cm | RF | Radio Frequency | IBEAM 703 |
| 8 cm | DC | Filament | IBEAM 601 |
| | | Plasma Bridge | IBEAM 602 |
| 12 cm | RF | Radio Frequency | IBEAM 703 |
| 13 cm | DC | Filament | IBEAM 601 |
| | | Plasma Bridge | IBEAM 602 |
| 16 cm | RF | Radio Frequency | IBEAM 703 |
| Linear | RF | Radio Frequency | IBEAM 703 |

Part numbers for Graphite Grid Options

| Size | Type | Collimated | Divergent | Specialized |
|--------|------|------------------------------|------------------------------|---------------------------------------|
| 3 cm | DC | 2 grid 504680A | 2 grid 505546A | 2 grid 1.2cm pattern 505374A |
| 6 cm | RF | | | |
| 8 cm | DC | 2 grid 504138A | | |
| 12 cm | RF | 3 grid 505781A | | |
| 13 cm | DC | | | |
| 16 cm | RF | 3 grid 504822A | | 3 grid 150x100 ellipse 505740A |
| Linear | RF | 6x30cm 2 grid 504761A | 6x30cm 2 grid 504983A | |

Part numbers for Moly Grid Options

| Size | Type | Convergent | Divergent | Specialized |
|--------|------|---|--|--|
| 3 cm | DC | | | |
| 6 cm | RF | 3 grid 25cm FP 505837A | 3 grid 25cm FP 505834A | |
| 8 cm | DC | | | |
| 12 cm | RF | 3 grid 25cm FP 504660A 3 grid 130cm FP 504149C | 3 grid 25cm FP 504260A 3 grid 46cm FP 504593A | 3 grid 130cm FP 8cm pattern convergent 504391A 3 grid 25cm FP 120x80 ellipse convergent 505692A |
| 13 cm | DC | 3 grid 130cm FP 505029A | 3 grid 25cm FP 505261A 3 grid 46cm FP 505269A | |
| 16 cm | RF | 3 grid 66cm FP 504599A | 3 grid 25cm FP 505281A 3 grid 66cm FP 504373B 3 grid 130cm FP 505319A | 3 grid 2FP standard 504137A 3 grid 2FP thin screen 504137B 3 grid 3FP standard 504296B 3 grid 3FP thin screen 504296J |
| Linear | RF | 3 grid 6x22cm 25cm FP 504750A | 3 grid 6x22cm 25cm FP 505779A | |

We offer many other grid styles compatible with Legacy Equipment too. Please see the tables below.

Part numbers for Legacy Grid Options (for Ion Tech Sources)

| Size | Type | Collimated | Specialized |
|--------|-------|--|--|
| 3 cm | DC | 2 grid Graphite 504734A | |
| 5 cm | DC | 2 grid Graphite 504434A | |
| 11 cm | DC | 2 grid Graphite 504198A 3 grid Graphite 504347D | 2 grid Graphite 100x64 ellipse collimated 504701A |
| 12 cm | RF | 3 grid Graphite 505274A | 3 grid Moly 130cm FP 8cm pattern convergent 504391A 3 grid Moly 25cm FP 120x80 ellipse convergent 505692A |
| 15 cm | DC | 2 grid Graphite 504548A | 2 grid Graphite 150x100 ellipse 504551A |
| 16 cm | RF | | 3 grid Moly 2FP standard 504137A 3 grid Moly 2FP thin screen 504137B 3 grid Moly 3FP standard 504296B 3 grid Moly 3FP thin screen 504296J |
| Linear | RF/DC | 2.5x22cm 2 grid Graphite 505089A 6x30cm 2 grid Graphite 504761A | 2.5x22cm 2 grid Graphite I pattern collimated 504799A 2.5x22cm 2 grid Graphite I pattern divergent 505355A 6x30cm 2 grid Graphite 031 spacing 505264A |

| Size | Type | Convergent | Divergent |
|--------|-------|---|---|
| 3 cm | DC | | 2 grid Graphite 504679A |
| 6 cm | RF | 3 grid Moly 25cm FP 505837A | 3 grid Moly 25cm FP 505834A |
| 12 cm | RF | 3 grid Moly 25cm FP 504660A 3 grid Moly 130cm FP 504149C | 3 grid Moly 25cm FP 504260A 3 grid Moly 46cmFP 504593A |
| 15 cm | RF | 3 grid Titanium 66cm FP 505122A | 3 grid Titanium 66cm FP 505123A |
| 16 cm | RF | 3 grid Moly 66cm FP 504599A | 3 grid Moly 25cm FP 505281A 3 grid Moly 66cm FP 504373B 3 grid Moly 130cm FP 505319A |
| Linear | RF/DC | 6x22cm 3 grid Moly 25cm FP 504750A | 2.5x22cm 2 grid Graphite 505352A 6x22cm 3 grid Moly 25cm FP 505779A 6x30cm 2 grid Graphite 504983A |

Please contact us for other grid options such as Titanium or if you require a custom beam pattern.