

Tool ID: 415
Tool Location: 121

Equipment Information Sheet

Class 1 Photolithography Spinners

Manager: Giovanni Sartorello 607-254-4853

Backup: Garry Bordonaro 607-254-4936

Backup: James Crawford 607-254-5895

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

SAFETY

- Face shields must be worn at ALL TIMES.
- Close spinner lid before spinning, for added protection from vacuum or substrate failure.
- No solvents or materials containing solvents outside hoods, except for immediate baking.
- Dispose of waste in appropriate receptacles.

USAGE RESTRICTIONS

- General photolithography training (online and in-person) is required to use this tool.
- Select chuck so that the **substrate is larger than the chuck's vacuum surface**.
- Inspect and clean the backside of every substrate **after coating and before baking**.
- Remove and clean chuck immediately after use.
- Clean bowl, lid and hood after use. Do not spray solvents directly onto spindle.

SCHEDULING/SIGN-UP RESTRICTIONS

Minimum Tool Time: 0 minutes

- None

MATERIALS COMPATIBILITY CATEGORY

| Tool Category 5: Class A and B Metals and Compounds | |
|---|---|
| Allowed | Not Allowed |
| Tool category 1/1E, 2, 3, and 4 materials | |
| Silicon Based Substrates and Films | |
| III/V compound Semiconductors | |
| Glass Substrates | |
| PECVD and ALD Films | |
| Cured organics and baked Photoresist | |
| CNF Class A, B, and Refractory metals | |
| Exposed Gold, Silver, Copper | |
| Alkali and Alkaline Compounds | |
| Organic/Biology Molecules prepared-w/salt buffers | |
| High Vapor Pressure Materials (Mg, Ca, Zn)* | * Some tool restrictions on high vapor pressure materials may apply |
| Soft organic materials | |

High Vapor Pressure Metals and Compounds are materials that have a vapor pressure above 1e-6 Torr at 400 C.

Additional Material Restrictions and Exceptions

- Class 1 materials **only** (most positive resist, nLOF, i-line and DUV materials, P-20 primer).
- NO WATER.
- No biomaterials.