Tool ID: 510
Tool Location: 128

Equipment Information Sheet

Nabity Nanometer Pattern Generator System (NPGS)

Manager: Xinwei Wu 607-254-4934
Backup: Alan R. Bleier 607-254-4931

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

No unusual hazards during operation.

USAGE RESTRICTIONS

No buddy system restrictions imposed on normal operation.

SCHEDULING/SIGN-UP RESTRICTIONS

Minimum Tool Time: 0 minutes

Same as Zeiss Supra SEM restrictions, plus:

If you will be using the tool longer than 2 hours you must reserve time outside of normal business hours.

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

- Never run gun up rapidly to 30 kV; start at 20 kV and increase gradually in small steps to avoid damage to the electron emitter.

Last Updated: 04/20/2023