

QUICK START GUIDE FOR III-V ETCHER



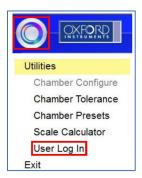




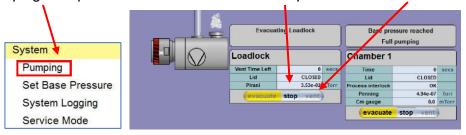
Quick Start Guide: III-V Etcher

This short document is for helping users remember how to operate the tool. It does not replace the SOP nor training.

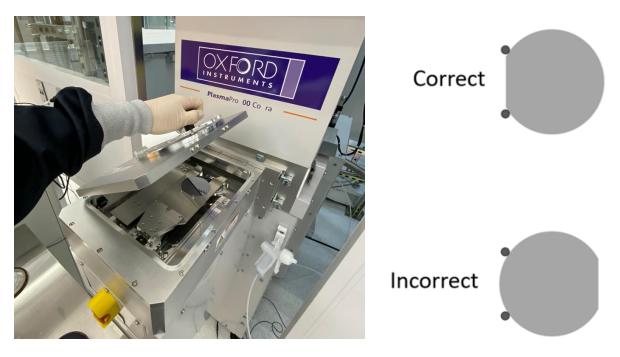
- 1. Activate the tool on NEMO
- 2. Log in by clicking round button on top-left of screen, then click User Log In



3. Click *Pumping* on top-left of the screen. Then click *stop* and then click *vent* for the load lock



4. Open the load lock and place your sample inside, with the flat facing the pins



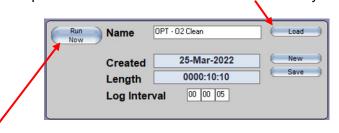
Note: This tool accepts 3" wafers



STOP!Does your sample satisfy these conditions?

Is wafer edge clean?	Is wafer backside clean?	Will not deep etch polymers?
Wafers with a	Inspect backside by	Photoresist polymers are
photoresist soft	eye. If there are	allowed in the tool as soft
mask must have	smudges, carefully	masks, but do not use
edge bead	wipe backside with a	this tool to etch several
removal (EBR). 2	texwipe wetted with	μm of polymers (ie.
mm is OK.	acetone then IPA.	Polyimide, Parylene, etc.)
Why?	Why?	Why?
If dirty, the edge	If the backside is dirty,	Excessive carbon
can get stuck to	then the wafer might	contamination can cause
the wafer clamp.	stick to the bottom of	buildup in the tool or also
Then, the wafer	the process chamber.	affect other users'
may get shattered	This may cause the	process results. Instead,
during arm loading	wafer to get shattered	ICP DRIE may be used
or unloading.	during arm loading or	for deep etching
	unloading.	polymers.

- 5. Close the load lock. Then on the pumping tab, click stop and then evacuate for the load lock
- 6. Go to Recipes on top left of screen and then click Loaq. Select your desired recipe.



- 7. Click Run Now and wait until your recipe is complete
- 8. After your recipe is finished, vent, then open the chamber as you did in step 3 & 4
- 9. Remove your sample.Load the Si cleaning wafer, with the flat facing the pins
- 10. Close the load lock and evacuate it as you did in step 5
- 11. Run the "OPT O2 Clean" recipe or other appropriate cleaning recipes
- 12. Log your runs in the chrome book
- 13. Log out of the PC4500 software and NEMO. It is OK to log out while cleaning recipe is running

Contributors	Revised Date
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