



Nano Fabrication Center

Aussinem Evaperator

itandard Operating Procedure Written by Sigal Keshet



3	Open the load lock chamber door. take out the sample holder (touching edges only).	Sample holder
4	Attach your samples to the sample holder.	
5	Place sample holder in the load lock and <u>make</u> <u>sure it seats</u> <u>in the right</u> <u>orientation:</u> <u>tape to</u> <u>tape!</u>	

6	Make sure pins sits correctly in place.	
7	Close load lock chamber door.	
8	Most	
	important	Chamber Pressure 3.33E-8 (Torr)
	step! In part	Substrate Velocity 0.0 (RPM)
	location,	Substrate Temperature 18.6 ('C)
	make sure	Closed Substrate Shutter
	II (samnlo	Close Cancel
	holder).	Part in LL Part Location
	If not, arm	VAD Z LL/Arm
	will be	
	crushed by z	
	stage.	Main



*	Turn on/off	
	chamber	A Ares - 0 A ANGSTROM® System Operator Operator
	light	An open state System is Ready Day 2325-2 (1) Providey, March 20, With 19, March System is Ready Last La
		Norm Norm Norm
10	Process:	
	from main-	Load This PC > Data (D:) > Angstrom Engineering > Recipes >
	process	w folder
	option-	Transfer to Load Lock Name
	choose	Transfer to VAD
	1. load	Iransfer to Z Stage
	2. browse	
	3. choose	This PC > Data (D:) > Anastrom Engineering > Recipes > Users recipes > Recipes - process only > with rotation > Au
	your desired	older
	recipe.	Name Date modified Type Size
	4. load	Ebeam_P1_Au_0.5As H300_rotation.rcp 8/21/2023 4:20 PM RCP File 16 KB
	recipe.	Ebeam_P1_Au_0.5As H400_rotation.rcp 8/21/2023 4:20 PM RCP File 16 KB Image: State in the s







18	Beam	
	alignment	Initial view 1
	when beam	Connect joystick 2
	is observed,	
	start the	Bernolos Handheld
	alignment.	
	1 . click the	DIGITAL
	Remote off	Post Remote off view
	option	
	(make sure	Pattern
	in unlock	Bamote Control
	position, If in	Run öff
	IOCK	DIGITAL Click target icon: 3
	position-	If in lock position.
	Click the	open with password:
	northern	Target Icon
	1231- then	Conter Password to lock Run of
		4 5 6 7 DIGITAL
	2 connect	8 9
	the joystick.	
	3 . click the	
	target icon.	
	4 . align the	
	beam.	
19	Cover the	
	viewing	
	window	
	using the	
	intensity	
	reducer	
	window.	

20	If you wish to see the beam in camera , use the camera shield as well.	
21	Make sure the correct pattern appears (sweep1 for spot, sweep2 for circle).	Cr/Co/oxides (sweep2) Rest of metals (sweep1)
22	 When alignment is finished: 1. click the ok button. 2.disconnect joystick 3. click the Remote on 4. close the door. 	After disconnecting RUN REMOTE CONF HANDHELD DIC DIC After disconnecting After clicking Remote on Image: State of the state of th



25	Post	
_	condition	
	ramp down	
	step. ramp	Recipe Ebeam_P3_Ti_H400_R0.5 60s All Display Graph
	down time	Start Time 6/22/2023 1:10:57 PM Current Value End Time 6/22/2033 1:37:44 DM Image: Current Value Image: Current Value
	should be at	Inger Inster to 2 stage
	list 2	Wait For Dep Chamber Pressure
	minutes. If	A ● Lower Stage 120mm 13:35:30 13:35:40 13:35:50 13:36:00 13:36:10 13:36:20
	your power	Current Value
	was 18%,	▲ ● Precondition 20 ▲ ● Step 10
	ramp rate	Ramp Power Ti, P3_H400 (elean Rocket 3) Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison
	should be	Chapter Substrate Rotation Stabilize A © Stabilize Querent Value Querent Value
	9%/min or	Stabilize Rate (Beam Pocket 3)
	lower value.	▲ ● Deposit ▲ ● Step
	For over	Move Absolute
	20%- make it	Cesam Pocket 3 Complete Elapsed Time 00:01:30 / Estimated Duration 00:25:00 A
	3 minutes.	Step Recipe Current Edit
	Wait till	Operative 2-stage to 120 mm Target Output (%) 0 0 0 Update Ramp Rate (% / min) 4 Update
	process is	Ramp Power Ti P3_H400 (elican Pocket 3) Soak Time (s) 0 0 0
	complete	
	and all steps	
	are green.	
26	Unloading	
	from Load	
	section,	
	choose the	Load
	transfer to	Load
	load lock	Transfer to VAD
	option. Then	Transfer to Z Stage Load Recipe Start
	load recipe.	browse
	Then start.	
	wait till step	
	is	
	completed.	



29	Load lock	
	vacuum	2 Vacuum System Dep 3.31E-8 Chamber (Terr) Load Lock
	go to	Sources 3 Load Over Range
	1. system	Sensors
	(bottom bar)	Shutters 4
	2. vacuum	Servos
	system	Pressure Control
	3. load lock	Heating & Cooling
	4. pump	Overrides Elapsed Time : 00:00:00 Estimated Duration : 00:06:00
	down	Starting Rough Pump
	5. Start	Waiting for Base Pressure Pump Down Complete
		5
		Start Abort
		Main 1 System Recipe Setup
÷	F	If you have smare from any kind, places take a serie of shot and says it have and
T	Errors	If you have errors from any kind, please take a screen shot and save it here, and
		send an email to Sigal/Assat/Sharon on call.
		> This PC > Desktop > Users errors
		New folder
		L
		SS a state of the