

Instruction Manual

Title	Operating pro	perating procedure POLOS SPS Spin 150		Date		3/12/2024	
(Of equipment, plant, experiment, activity, etc.)				Version		1	
Activity Details (of equipment, plant, experiment, activity, etc.)	Description	Step wise procedure to operate the Spinner SPS Spin150					
	Location	W 2.06					
	After-Hours Work		YES			NO	
Photo/s (of equipment, plant, experiment, activity, etc. used as part of this procedure)	SPIN 150						
Operational requirements	Equipment / Process / Plant / etc.			Instruction Manual (IM)			
	Cleanroom Lab	Dress Code	IM_W2.06_Gowning_Cleanroom_V1				
Author/s	Gayatri Vaidya			Ph.: 6125 9638			

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Describe, in detail and in sequence, the steps involved in this activity

PRE-OPERATIONAL CHECK

All operators involved in system must wear protective clothes adequate to chemicals used including but not limited to:

- Safety glasses/goggles and/or face shields
- Chemical gloves
- Protective suit with long sleeves
- Chemical aprons
- Closed-toe shoes
- Long pants

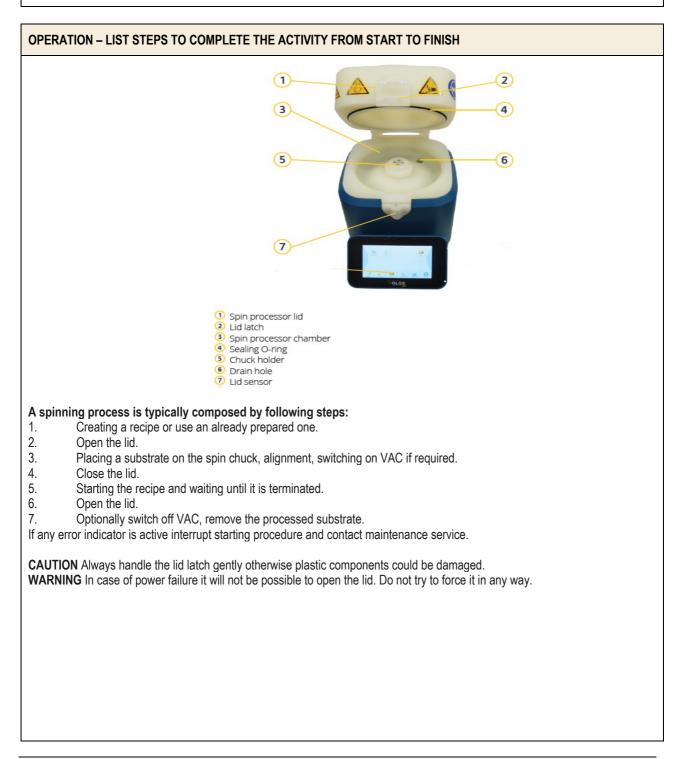
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PRE-OPERATIONAL CHECK

When handling aggressive chemicals, insure proper ventilation and exhaustion of vapours. Always ensure that exhaust is present and working correctly before opening the system.

- Make sure that mains supply, motor purge, CDA, vacuum and all required input are connected and switched on.
 - Clean Substrate •
 - Resist, Dropper, Clean wipe •
 - Spin recipe





OPERATION – LIST STEPS TO COMPLETE THE ACTIVITY FROM START TO FINISH

✤ Start screen

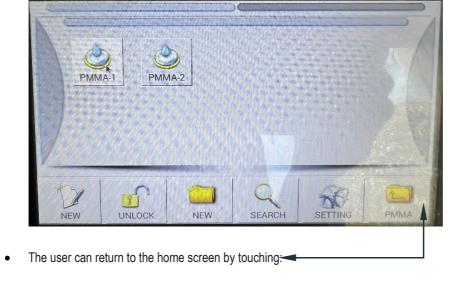


When unit is powering up, following screen will appear. Wait until loading bar on page bottom will be completed until
performing any other operation

✤ Home screen



- On the home screen the operator sees all recipes and folder on the system
- ✤ Open a Recipe
- When the operator touches a folder symbol, it opens and shows the recipes inside:





OPERATION – LIST STEPS TO COMPLETE THE ACTIVITY FROM START TO FINISH									
*	Creating a recipe								
•	For creating a new recipe you can touch on								
•	to edit an already existing recipe touch on the recipe name								
•	touching these icons will take you to the editing Page - Insert INSERT or append APPEND steps as needed								
•	Enter general details for recipe identification								
	0000 PMMA-1 💩 step(s): - / 2 cycle(s): 1								
	header icon2.png @	Enter the							
	step 1 3 2 comment SINGLE	1.	Name						
	step 2 vacuum va	2.	Comment						
	password	3.	Select the header icon						
	SAVE SAVE AS RECIPE INSERT APPEND BACK								
•	Select the step you need to edit and enter the parameters								
	0000 PMMA-1 \$\$ step(s): 1/ 2 cycle(s): 1 header (2) (2	Enter th	e						
	step 1 step name 4 direction cw Q	1.	Spin Speed						
	1 spin speed 500 I	2.	Acceleration						
	2 spin accel.(rpm/s) 100	3.	Time						
	Tab 1 2 3 4 5 - ** Del nav 6 7 8 9 0 . +* **	4.	Name of the step (optional)						
•	Select the next step if you have multiple steps in your recipe to edit	•							



OPERATION – LIST STEPS TO COMPLETE THE ACTIVITY FROM START TO FINISH					
0000 PMMA-1 step(s): 2/ 2 cycle(s): 1 header Image: Comparison of the step (s): 2/ 2 cycle(s): 1	Enter the				
step 1 step name 4 direction cw Q 🗸	1.	Spin Speed			
step 2	2.	Acceleration			
2 spin accel.(rpm/s) 100	3.	Time			
unit ss.s 3 3 0 0 Image: save Save as Image: save Image: save as Image: save as <td< th=""><th>4.</th><th>Name of the step (optional)</th></td<>	4.	Name of the step (optional)			
Save the recipe details or you can touch on the back button	and get th	ne below message			
0000 PMMA-1 Step(s): 2/ 2 cycle(s): 1					
step 1 step name direction cw Q					
step 2 spin speed 3000					
save the changes					
unit ss.s spin time(ss.s) 30 0					
SAVE SAVE AS DEL STEP INSERT APPEND BACK					
Please select the option suitable for you at this point.					
Execute a recipe					
On selecting a recipe the below display is seen on the screen					
step 1 3000 2000 1000 555 2055 2056 2056 2056 2056 2056 5056 3000 3000 3000 3000 3000 3000 3000 attraction spin speed(rpm) 0/ 500 3000 3000 spin speed(rpm) 0/ 500 300 disp.time(ss.s) 0.0 spin time(ss.s) 0.0/ 5.0 5.0 5.0					
EDIT UNLOCK START VAC ON LOG END					

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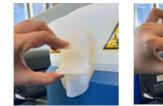


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OPERATION – LIST STEPS TO COMPLETE THE ACTIVITY FROM START TO FINISH

- ✤ Open the spinner lid
- Release the lid lock by touching the Unlock button







• Gently lift lid's latch and push the lid till hinge hold position, lid lock will be reactivated after countdown expires however lid will hold this position forever.

NOTE:

Release the lid lock

For safety reason the lid lock mechanism is always activated. Touch the unlock button in order to release it and allow to open the lid. As soon as the lid is unlocked a countdown begins, after which the lid is automatically locked again.

✤ Loading substrate

• Place the wafer on the chuck



- Check the position of the wafer from different sides to verify that it touches the slider end until it lies in the centre of the chuck.
- Switch on the vacuum



- Put the resist on the sample using a dropper
- Close the lid





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OPERATION – LIST STEPS TO COMPLETE THE ACTIVITY FROM START TO FINISH

- Once the spin recipe is complete
- 3
- Unlock the lid UNLOCK
- Release the vacuum VACOI
 Take the sample off the chuck
- Place it on the hotplate
- Once the sample baking is complete keep the sample in a box

Spinner Cleaning

- Clean the liners
- Use clean wipes to clean the tub
- Put the rubbish in the contamination bin
- Close the lid

Notes from Vendor:

Chamber Cleaning

Always clean the chamber with suitable method after each process is complete prevent chemical to stand still inside the chamber. The process chamber should be cleaned according to the dispensed materials

Switching off

Assure that the unit is in idle mode and no process is currently running. Close the lid and leave the house exhaust system, if available, activated to avoid condensation and ensure proper ventilation and gases extraction.

WARNING After switching off the device always assure a delay of 30 seconds before switching on the device again. Otherwise the device may malfunction or damage may occur, including blown fuses.

TRANSPORT METHOD for hazardous substances, biological, animal, or radioactive materials or plant equipment

Samples transported around labs using closed PTFE/PVC carrier boxes

WASTE DISPOSAL

- A yellow contamination bin and a sharps bin available in the yellow room for waste disposal
- Yellow Contamination bin is placed near the fridge
- The **sharps bin** is placed behind the spinner
- Plastic bags, broom and pans placed near the DI System to collect sharps pieces
- Waste generated to be disposed in the respective waste bins by the users



COMPLETION OF WORK – List steps to make area safe (include clean up, any waste disposal & service/maintenance requirements)

Clean up after use

- Clean up the working area and work bench surface after completion of work
- NO broken pieces of substrates, glassware and tapes, used clean wipes, filter papers, droppers should be lying around the work bench or the working table
- Please use the plastic bags, broom and pan to collect and dispose the broken glassware and keep it outside the lab near the waste bin for collection.
- Clean the liner (Tub and lid) with the clean wipe
- Sharps waste (glass droppers, small broken pieces of glass and wafers goes in the Sharps Bin behind the spinner
- Plastic droppers, Clean wipes, Al foil, filter paper goes in the yellow contamination bin near the fridge

Workers must read and completely understand the relevant equipment risk assessment and this instruction manual before they are allowed to work on the activity without direct supervision.