

Laurell Spin Coater

Standard Operating Procedure

Revision: 1.0 — Last Updated: Dec. 18/2012 Revised by Grace Li

Overview

This document will provide a detailed operation procedure of the Laurell WS-400B-6NPP-LITE spin coater. Formal Training is required for all users prior to using the system.

Revision History

#	Revised by:	Date	Modification
1	Grace Li	Dec.18/2012	Initial Releases
2			
3			
4			
5			

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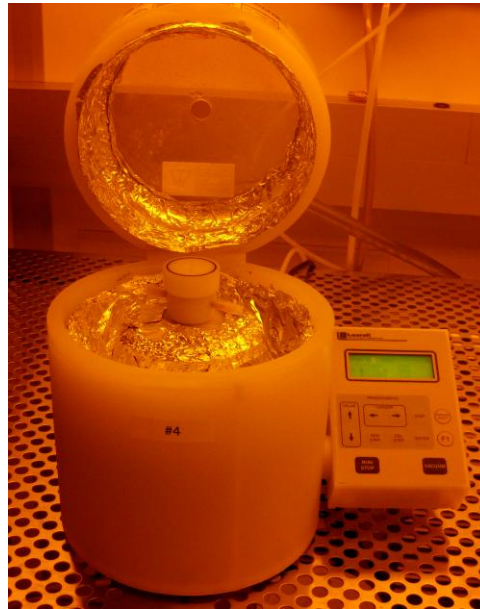


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General Information

The Laurell WS-400B-6NPP-LITE is used for spin coating photoresist on a substrate. The chucks are available for 2", 4" wafers and small wafer fragments. The maximum spin speed is 8000 rpm.



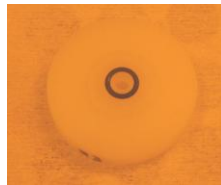
Operation Procedure

1. Spin Coating

Note: You must never spray solvents onto the chuck while it is on the tool; the solvents will be pulled into the vacuum line. This will eventually destroy the tool and may cause problems for the vacuum system as a whole.

- Turn on the house vacuum on the wall (left side of the wall)
- Turn on the compress air switch (CDA pipe switch as labelled)
- Turn on the power switch of the coater (back, right bottom).
- Open the lid of coater
- Place the substrate on the chuck.

Note: Use the fragment chuck for small substrates. The substrate must be larger than the O-ring.



- Set the required program (**see below “How to program a recipe”**)
- Turn the vacuum on by pressing vacuum button on panel.
- Dispense the solution/PR/Polymer on the substrate.
- Close the lid of coater and press **start**.

2. How to Program a Recipe

A program is made of several steps (max: 51). Each step has 3 parameters: time [min:sec], speed [rpm], and acceleration [rpm/s].



- Place the unit in programming mode by pressing the **F1** key: **PGM** will appear on display.
- Select program letter to be modified using **PROGRAM SELECT** key.
- Use the **ADD STEP** & **DEL STEP** keys to adjust the number of steps necessary in the program
- Use cursor **Left** or **Right** to position the cursor over the value to be changed
- Use the **Up** and **Down** arrow to change the set point values
- Use the **STEP** key to advance to next step
- When done press **F1** key to exit and return into "**RUN**" mode

3. Shutting Down

- All contaminated pipettes should be disposed of in the "Chemicals Waste" can.
- Clean up the spinner hood area and remove your sample.
- Clean up the adapter if there is resist on it (put a small amount of solvent on the wiping paper to wipe down).
- Turn off the power switch of the coater.
- Turn off the house vacuum on the wall.
- Turn off the compress air switch.



References and Files

The Laurell WS-400B-6NPP-LITE Manual

Contact Information

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