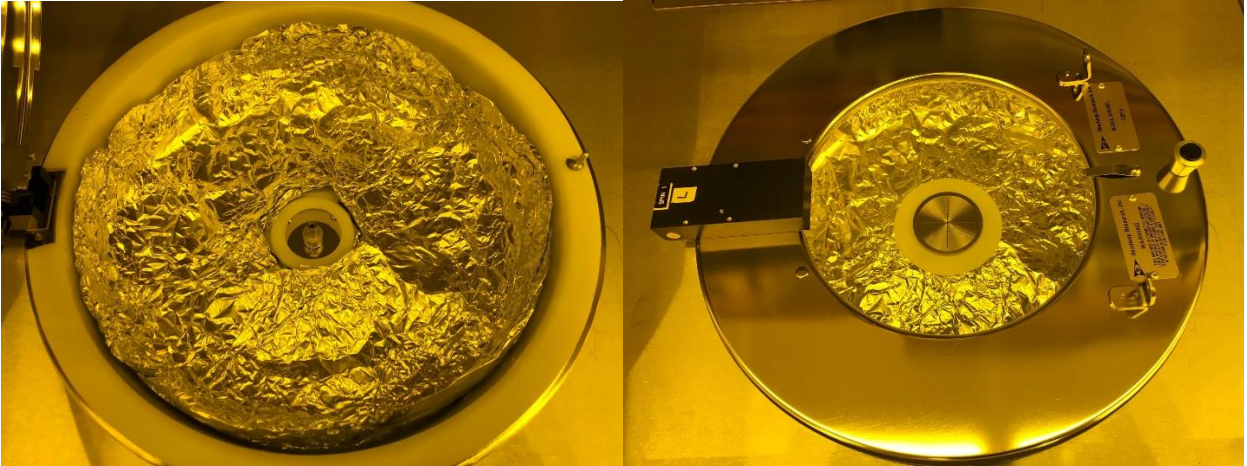
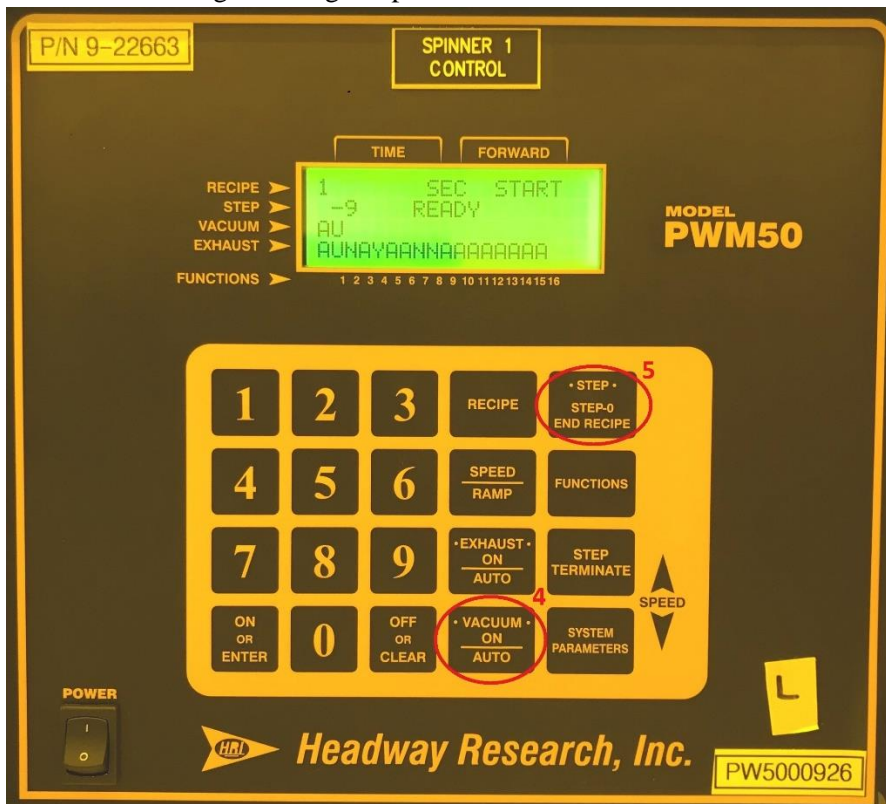


# Operational Procedure for Headway Spinner

- 1) Make sure there is Aluminum foil in the spinner.



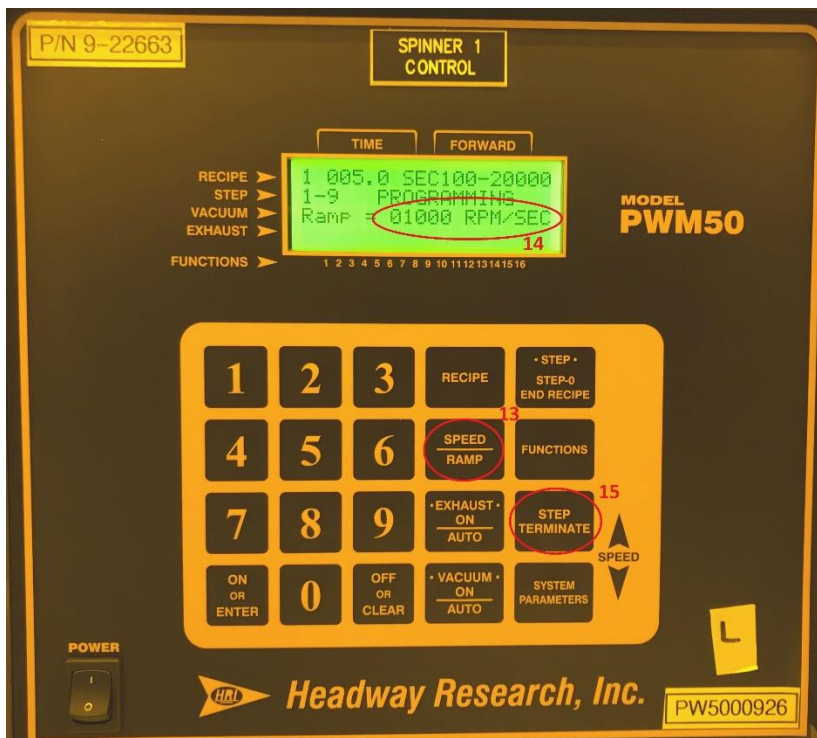
- 2) Select the proper spin chuck.
- 3) Place the wafer on the spinner.
- 4) Press the **VACUUM ON** button on the spinner controller.
- 5) Press **RECIPE** to select a recipe.
- 6) The screen will display “SELECT A RECIPE”
- 7) Press a **Number** key to select Recipe Number. In this example Recipe 1 will be selected.
- 8) Press **STEP** to begin editing recipe.



- 9) Screen will display message “SELECT A STEP”.
- 10) Press **1** to select Step 1. The Step arrow will display “1-9” indicating Step 1 of 9 total steps.
- 11) Press **SPEED/RAMP**.
- 12) The previous Speed for Step 1-9 will be displayed in RPM.



- 13) Press **Any Number** to Continue
- 14) User is prompted for a password. Input Password **7323**. Press **ENTER**.
- 15) User can now edit the speed. Input new Speed.
- 16) Press **SPEED/RAMP** again to display previous Ramp Rate in RPM/SEC.
- 17) User can now edit the ramp rate. Input new Ramp Rate.
- 18) Press **STEP TERMINATE**.



- 19) The previous Time will be displayed.

- 20) User can now edit the time. Input new Time.
- 21) Repeat this process (Steps 8 – 20) by pressing **STEP** and a step **Number** key to edit other steps.
- 22) **Final Ramp to 0 RPM Step:** On your final step, you should program the recipe to ramp down to **0 RPM**.
- Press **STEP**.
  - Press the number for your final used step.
  - Press **SPEED/RAMP**.
  - Input Speed **0 RPM**.
  - Press **SPEED/RAMP**.
  - Input Ramp Rate between **100-2000 RPM/SEC**.
  - Press **STEP TERMINATE**.
  - Input Time **0 SEC**.
- 23) **Unused Steps:** There are 9 steps total. If there are unused steps after your **Final Ramp to 0 RPM Step**, you may need to check that all remaining unused steps are set to **0 RPM, 100-2000 RPM/SEC, and 0 SEC**
- Press **STEP**.
  - Press the number for the unused step.
  - Press **SPEED/RAMP**.
  - Input Speed **0 RPM**.
  - Press **SPEED/RAMP**.
  - Input Ramp Rate between **100-2000 RPM/SEC** (The Ramp Rate is **irrelevant** here since you are editing an unused step with Speed = 0 RPM and Time = 0 SEC. This is done to avoid “Wrong Entry” message and brief alarm sound for invalid Ramp Rates.
  - Press **STEP TERMINATE**.
  - Input Time **0 SEC**.
  - Repeat steps (a) through (h) for remaining unused steps.
  - These entries are to make sure that wafer doesn’t go into unwanted steps.

The following are examples of Speed, Ramp Rate, and Time values for an **Unused Step 4-9**

