

E-beam Bay Headway Spinner SOP

The Headway Photoresist Spinner is designed for the manual application of photoresist and spin-on products. It accommodates miscellaneous substrates and wafers using an assortment of chucks. It permits accurate control of spin-speed and spin time during the spin coat operation.

Safety

Moving components – The tool has exposed, rotating parts at very high rpm's. Never place hands or items near the chuck while it is rotating.

1.0 Pre-Operation

1.1 Tool Reservations may be made via the NRF Reservation Page.
<http://nimet.ufl.edu/servicecenter/resources/default.asp>

Useful link for SU8 or Hare SQ users

<http://memscyclopedia.org/su8.html>

2.0 Restrictions

2.1 None

3.0 Operation

- 3.1 Login using TUMI system to activate tool and start billing period.
 - 3.1.1. Enter NRF user ID
 - 3.1.2. Enter gatorlink password
 - 3.1.3. Click on Litho Process Headway E-Beam Bay & Hot Plate/Oven
- 3.2 Turn on the controller.
- 3.3 Use aluminum foil sheet to protect the spin bowl. Fold in quarters and tear off corner for spin motor shaft.
- 3.4 Place the correct chuck on the spindle. Your sample MUST be larger than the chuck.
 - 3.4.1. NOTE: The spindle has a flat area and it must be aligned with the flat portion of the chuck being applied.
- 3.5 Place your sample on the chuck.
- 3.6 Adjust the speed knob all the way counter-clockwise.
- 3.7 Press the foot pedal (the side away from the cord) to begin the speed adjustment.
- 3.8 Increase the speed knob to ~500-600rpm.
- 3.9 Press the foot pedal (the side with the cord) to stop.
- 3.10 Set the time to the desired amount. This is typically 40-60s.
- 3.11 Dispense the photoresist or other material to be spin coated and then press the foot pedal (side away from the cord) to start.
- 3.12 Allow the liquid to spread for about 5 seconds and then increase the speed knob to the desired rpm.
- 3.13 The spinner will stop when it reaches the set time limit.
- 3.14 When finished, use acetone and clean out the spinner bowl.
- 3.15 Turn of the controller.

- 3.16 Logout of TUMI system to deactivate tool and stop billing period.
 - 3.16.1. Enter NRF user ID
 - 3.16.2. Enter gatorlink password
 - 3.16.3. Click on Litho Process Headway E-Beam Bay & Hot Plate/Oven
 - 3.16.4. Enter comments, if needed