

Brewer Science Model 100 Spin Coater Operator Instructions

10/02

This machine is to be used by authorized personnel only. To obtain training on this instrument, please contact the Lab Manager directly (rm 1017 X4-9831/4-0260).

If at any time during use unknown problems occur, stop all work immediately. Leave notice that the machine is not to be used and contact the Lab Manager (X4-9831/4-0260)

Personal Protection Equipment required: gloves and safety glasses

1. **Check that the power switch is in the on position.** The **GREEN** control display will read "**CEE MODEL 100**". If it does not, press **RESET**.
2. Raise the plexiglass shield to expose the vacuum chuck. Select the spin chuck appropriate for your sample size and place it on the vacuum chuck
3. Place your sample on the spin chuck and center it carefully. Whenever possible always use a chuck which is slightly smaller than your sample.
4. **Press RUN. You will be prompted for a program number; enter a number and press ENTER. The normal program number for standard operation is ONE (1).**
5. **Press START. The control display will read CENTERING.** The sample will revolve slowly for several seconds to allow you to determine if your sample is properly centered. Good centering is necessary to prevent your sample from flying off during the spin coating operation.
6. **Press 0 to test centering again**, if necessary. If you are satisfied with the centering of your sample continue to step 7.
7. **Using a disposable pipette, squirt a small amount of resist onto your sample** (the amount of resist placed onto the sample surface is dependent on the size of the sample, too much resist will cause a buildup on the edges of your sample and excess resist will also splash onto the side walls of the chamber). **Immediately lower the glass shield and press START.** The sample will accelerate to a preset rpm and spin for the amount of time determined by the program selected. **Program 1 – Acceleration 10,000 rpm - Velocity 4,000rpm – Time 45 seconds**
8. **When the sequence is finished, the display will read DECELERATING. Press STOP to stop the machine from beeping** for your attention.
9. **Raise the plexiglass shield and remove your sample.** Close the shield and press **RESET** to return the control display to "**CEE MODEL 100**".
10. **CLEAN UP ANY MESS WITH ACETONE OR ANOTHER APPROPRIATE SOLVENT. Dispose of all materials in the proper waste container located next to the spin coater.**