

EMSI 50T-ES Sputter Coater (Manf.: Quorum Technologies)



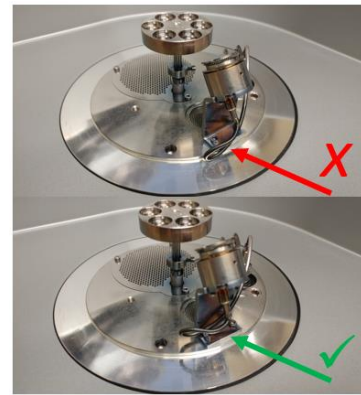
Usage Instructions:

1. Log into FOM.

- Note: **Ensure you have sufficient time (min. ~8min) for the cycle to run and vent prior to the reservation ending!** Failure to do so causes the system (and specifically the turbo pump) to shut down prematurely.

2. Open the lid by lifting the black handle and load the sample.

- There's no latch – the lid should easily lift upward upon pulling (do not touch the knob directly above it). If it resists, the chamber may be under vacuum; run the “QT Vent chamber” profile to release.
- If desired, the bell jar may be lifted out to more easily load/remove stubs. When returning the jar, ensure that the bottom rubber seal is properly seated around the raised lip and that the FTM cord is clear (right).



3. From the dropdown box, select the profile corresponding to the desired thickness; for other thicknesses/materials, consult EMC staff.

Profile	Current	Sputter time
EMC 05nm Pt/Au	20mA	60s
EMC 10nm Pt/Au	20mA	120s
EMC 25nm Pt/Au	50mA	120s

4. Hitting “Run Profile” immediately begins the selected cycle, and will automatically proceed through: Chamber Pumping (~1:30) → Extra Pump Time (2:00) → Bleeding Gas (0:10) → Sputtering (x:xx) → Venting (1:10)

- The screen will display the cycle progress – if the current or elapsed sputter time doesn't match the above, alert EMC staff.

5. When the system returns to the home screen, the sample is free to be removed

