EMS150T-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.**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Current</th>
<th>Sputter time</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMC 05nm Pt/Au</td>
<td>20mA</td>
<td>60s</td>
</tr>
<tr>
<td>EMC 10nm Pt/Au</td>
<td>20mA</td>
<td>120s</td>
</tr>
<tr>
<td>EMC 25nm Pt/Au</td>
<td>50mA</td>
<td>120s</td>
</tr>
</tbody>
</table>

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.