

## **Spin coater**

### Technical specifications

|                          |   |
|--------------------------|---|
| Spin speed               | Up to 12000 RPM or higher   |
| Spin speed stability     | $\pm 1$ RPM   |
| Spin speed repeatability | $\pm 5$ %   |
| Spin head                | Stainless Steel (SS 304) ~ 6" diameter bowl with teflon coating from inside.  |
| Spin Baffle              | A suitable assembly and also rotating seal with shaft to avoid polymer solution spillover to rotation mechanism.  |
| Substrate holder         | Suitable vacuum chuck/holder to handle substrates of various sizes (10 – 25 mm or higher) with integrated vacuum release switch for easy removal of substrates. |
| Spin Cycle               | One cycle should have up to 16 steps with control of acceleration/deceleration  |
| Programmable step time   | 0-999 seconds   |
| Display                  | LCD touch screen with color real time display of speed (RPM) versus time  |
| Control Parameters       | Spin parameters like spin speed / number of steps / acceleration / deceleration / step time.  |
| Vacuum Pump              | Oil free, Diaphragm pump with pumping speed ~ 75 lit/min.   |
| Safety interlocks        | All the standard safety interlocks should be incorporated, including vacuum switch interlock.   |
| Vacuum connections       | Polyurethane tubing or equivalent for vacuum plumbing.  |
| Power supply             | 230V AC $\pm 10$ %, Single phase and 50 Hz.   |

### **General Terms & Conditions**

- The vendor should have supplied a system of a similar or a higher specification to Indian institutes like IITs, etc. or, to a reputed foreign institute in the last 5 years. The vendor should provide the contact details of the user of such a system. The vendor should provide proof of installation and maintenance of such systems. Proof can be provided as reference letters from the users of the systems.

Warranty : Min 1 Year

Installation : By the vendor