

www.adeeco.ir

Spin Coater

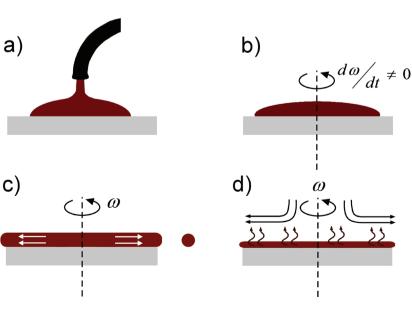
Spin coating method is widely used for forming a thin film onto the rotating substrates by applying a specific amount of coating solution manually (e.g. using a syringe) or automatically. Substrate is rotated at high speed in order to make the coating solution spread on the substrate as a result of centrifugal force. The rotation will continue until the desired thickness of a film is achieved. The speed of rotation determines the thickness of coated layer. Keeping the speed constant during the spin coating process, plays a crucial role in the formation of a homogenous layer.

In other words, spin coating consists of following stages:

- Deposition of the coating onto the substrate using a nozzle/ spray, etc.
- Acceleration of the substrate rotation speed to the desired level.
- Spinning of the substrate at a constant rate-fluid viscous forces dominate fluid thinning behavior
- substrate spinning at a constant rate solvent evaporation dominates the coating thinning behavior

Most substrates can be spin processed, including wafers, microscope slides, photomasks.





No.78, 16 Azar St, Keshavarz Blv, Tehran, IRAN
(108, 21) 88,080,173

📞 (+98 21) 88 980 173 🖨 (+98 21) 88 980 827



www.adeeco.ir

Advantages

- · Thickness homogeneity
- Short coating times (a few seconds per coating)
- Simple and easy operation
- Minimal edge effect

Specification	
Input Voltage	220 AC
Power DC	24 V
Min Rate	800 rpm
Max Rate	9000 rpm
Rate Tolerance	±30 rpm
Coating Time	Up to 500 s
Dimension	26×38×32 cm
Weight	16 Kg
Monitoring	Digital

Application

- Photoresist layers for pattering wafer in microcircuit production
- Insulating layers for microcircuit fabrication
- Flat screen display coatings
- Antireflection coatings and conductive oxide
- DVD and CD ROM
- Sensors
- Field-effect transistors
- LEDs