

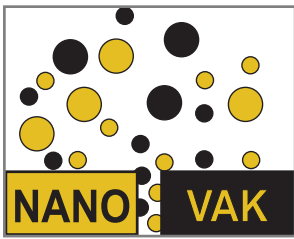
# NANOVAK

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## NVBJ-300-2SP Sputtering System



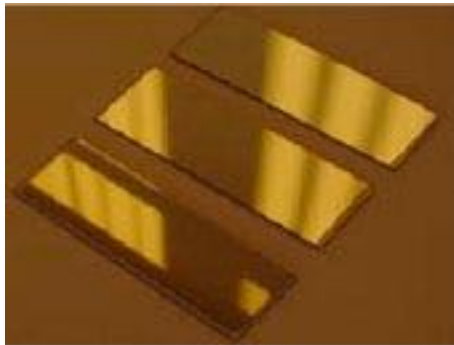
The Bell Jar type simple sputtering system can be used for day to day use. System has two box type evaporators and a single DC sputter gun on the base plate. System can be used to produce multilayered, metallic, oxide, fluoride, organic films, like  $\text{SiO}_2$ ,  $\text{TiO}_2$ , Mo,  $\text{ZrO}_2$ , TiN,  $\text{Si}_3\text{N}_4$ , Au, Ag, Al, Ti, Cr and Ni. Features such as thickness/rate monitor and sample rotation are standard. A typical three layer thin film coating experiment cycle time is about 1.5 hour. For the loaded system the base Pressure is  $5 \times 10^{-7}$  Torr.



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## Bell-Jar Sputtering System



- Fully automated vacuum system with panel control, simple operation, 1 hour quick cycle time
- Cylindrical vacuum Bell-Jar made of Pyrex Glass, Standard 1" ports
- Various sample holders, 2", 3", 4" wafers, 1x3" lamellae, small sample spring holder, easy loading
- Ability to adjust sample source distance to save evaporation material
- Internal SS304 cylindrical protection jacket
- $5 \times 10^{-7}$  Torr base pressure,  $5 \times 10^{-6}$  Torr vacuum level in 30 minutes
- Turbomolecular + Mechanical pump, SS316 flex hose and dust filter
- Wide range ( $1000 - 10^{-9}$  Torr) vacuum control and measurement, auto vent and  $N_2$  back-fill ability
- Closed cycle water cooler inside the desk, auto-on auto-off cooling system
- Two thermal evaporation sources 2000 Watt (10V - 200A)
- Two 2" DC Sputter, confocal guns, positioned on the base plate, sequential sputtering by DC power
- 600 VDC-3A 1U digital, switching power supply
- MFC controlled gas inputs, (Ar,  $N_2$ ,  $O_2$ ) 3 channel real time digital control, 0.1 sccm sensitivity, gas mixing
- Throttle, vent and isolation valves, precise manual pressure setting between 1 - 100 mTorr
- Ability to do reactive gas sputtering
- Auto shut-off in case of power failure. Ability to keep the chamber in vacuum when not in use
- One common Servo controlled shutter for two thermal sources
- One touch start-stop vent button for automatic vacuum management
- 75x120 cm footprint, lockable wheels. Friendly interface and simple operation
- Easily passes through the standard 85 centimeter door
- One year full warranty for design, materials and workmanship