

# Magnetron Sputter Coater -Single

Adeco offers two novel models for sputter coating which are well designed to fully satisfy the educational and research needs of research centers and universities.

AFSC and ALSC are able to coat noble metals - such as Gold (Au) , Silver (Ag), Palladium (Pa) and Platinum (Pt). Thin films are fabricated on non-conductive or poorly conductive specimens uniformly with fine-grain size in fast cycle time. System designed in such a way to able the user load and unload samples quickly and easily.



## Application

### Features:

- Coating of noble metals -such as Gold (AU), Silver(AG) , and etc.
- Touch screen and colorful display.
- Able to plot sputtering parameters graphs.
- Including USB port for graph and data extraction and software updates.
- Thickness monitoring system for thickness measuring during coating process.

- Fine-grained sputter deposition for high resolution SEM& TEM
- Conductive coating
- Metal films manufacturing
- Conductive carbon films on specimens for X-ray microanalysis (EDX,WDX)
- Fine-grained carbon, metal or carbon/metal mix coatings for high resolution TEM/SEM

### Specification

- Two-stage, direct drive 170 Lm, rotary vane pump.
- 215 mm OD x 150 mm Pyrex cylinder chamber for ALSC and 120 mm OD x 150 mm for AFSC
- 0-300 mA switching power supply.
- Ultimate Vacuum: Less than 30 millitorr.
- Dimensions: 40 cm H x 35 cm W x 60 cm D.
- Utilities: 220V-50Hz - 6A.
- ALSC model involves touch screen.
- Gas: Argon – 99.999% (regulated to 2 – 5 psig); recommended but not required.
- Manual or automatic Timed and Thickness sputtering.
- Control the rate of sputtering to achieve finer grain structure.
- Automatically controlled the temperature of cathode in order to protect the life time of the magnets.
- Data is rapidly entered using fully automatic touch screen control.
- Precision metering valve in order to control the vacuum pressure.
- Drawing the pressure, thickness and current curves.
- Transfer the curves and sputtering process data by USB port to PC.

