

## SPUTTER COATER (GOLD) FOR BIOLOGICAL SAMPLES



### DESCRIPTIONS

Coating of samples is required in the field of electron microscopy to enable or improve the imaging of samples. Creating a conductive layer of metal on the sample inhibits charging, reduces thermal damage, and improves the secondary electron signal required for topographic examination in the SEM. Fine carbon layers, being transparent to the electron beam but conductive, are needed for x-ray microanalysis, to support films on grids and back up replicas to be imaged in the SEM.

The EM ACE200 is a high-quality desk-top coater designed to produce homogeneous coatings of conductive metal or carbon as required for electron microscopy.

### Further Information

- Dr. Zaidah Rahmat
- E-mail : [zaidahrahmat@utm.my](mailto:zaidahrahmat@utm.my)

### Brand-Model

LEICA EM ACE 200

### Basic Specifications

The fully automated instrument can be configured either as a sputter coater (II) or a carbon thread evaporation coater (I). Or, if preferred, the EM ACE200 can combine both methods with interchangeable heads on the one instrument.

Additional options include:

- Quartz crystal measurement – for reproducible layers
- Planetary rotation – for even distribution of coating material
- Glow discharge – to make SEM grids hydrophilic

### Equipment Website (Manufacturer)

[https://downloads.leica-microsystems.com/Leica%20EM%20ACE200/Brochures/EMACECoaters\\_Brochure\\_09\\_17\\_EN.pdf](https://downloads.leica-microsystems.com/Leica%20EM%20ACE200/Brochures/EMACECoaters_Brochure_09_17_EN.pdf)

### Types of samples

Solid

### Location

Central Analytical Laboratory  
(T02, 01-25-01)

### Operator

- Muhammad Hanif Bin Muhammad Hatta
- E-mail : [m.haniff@utm.my](mailto:m.haniff@utm.my)