## **Satellite Instruments for SEM Sample Preparation**

## Leica EM CPD300 - Automatic Critical Point Dryer



The Leica EM CPD300 is an automated critical point dryer used for SEM sample preparation. This technique preserves the three-dimensional morphology of samples by avoiding the surface tension artefacts associated with traditional drying methods. The system uses carbon dioxide as a transitional fluid and gently removes solvents at their critical point. Automation ensures reproducibility and minimises error.

## Leica EM ACE200 - Low Vacuum Coating Device



The Leica EM ACE200 is a vacuum system for coating samples with a thin layer of amorphous carbon via thermal evaporation. This process makes samples conductive for SEM imaging, prevents charging, and enhances image quality — particularly suitable for biological and non-conductive materials.

## **Agar Automatic Sputter Coater**



The automatic sputter coater deposits a fine gold layer onto samples using high-vacuum sputtering. Argon plasma ablates gold atoms from a target, depositing them evenly on the sample. Metallisation is essential to render biological samples conductive, reduce charging, and preserve ultrastructural detail during SEM analysis.