



CARBON COATER (EC-32010CC)

THIN FILM CONDUCTIVE COATING FOR SEM IMAGING

JEOL's Carbon Coater is a sample preparation device that evaporates carbon to create a conductive thin film on the sample surface.

Thin film conductive coatings are effective in eliminating charging with non-conductive materials. Carbon has an advantage over heavy metal coatings (Ex. Gold or Platinum) for X-ray applications (EDS/WDS), CL or backscatter electron imaging due to its inherent low absorption characteristics.

This device is simple to use with fully automated vacuum, pre-heat and evaporation sequences. Insert your samples, turn the unit on and the chamber will automatically evacuate. Press PREHEAT to degas the carbon rod, next press EVAPORATE. The unit will automatically evaporate the carbon to create the thin film. Once the carbon evaporation is completed the system automatically vents to atmosphere.

Film thickness can be adjusted by changing the height of the sample stage.



BASIC SPECIFICATIONS:

	Specification
Pressure	≤ 20 Pa
Carbon Electrode	1 set
Evaporation Source	Dedicated High Purity Carbon Rod (1mm diameter)
Sample Stage	64mm (diameter)
Source to Stage Distance	135mm to 165mm (adjustable)
Vent time	30 seconds
Evacuation System	Directly-coupled rotary pump, 135L/min
Evacuation Time	3 Pa in 10 minutes (no sample in chamber)

COMPOSITION:

	Number
Carbon Coater	1
Rotary pump (135L/Min), includes power supply cable	1
Oil Mist Trap	1
Carbon Rod 90mm (length) x 1mm (diameter)	5
Vacuum Hose	1
Power Cable	1
Instruction Manuals for Carbon Coater and Rotary pump	1



OPTION:

Rotating and Tilting Sample Stage (EC-30030RTS)

This stage is useful for samples with a significant amount of topography to aid in providing a uniform coating.

Rotation Speed	50 ± 10 rpm
Tilt Angle	Horizontal to 90° (manual)
Sample Holder	4 stub(12.5 mm diameter)
	1 stub (32 mm diameter)

BASIC INSTALLATION REQUIREMENTS

Clean, dry, dust free environment.

Preferred footprint: 500mm (W) x 550 mm (L)

	Room/Space Requirements
Temperature	20 ± 5°C (59~77 °F)
Humidity	60% or less
Power	Single Phase AC 100V, 50/60 Hz, 1.4kVA
Ground	Grounding Terminal (one, 100Ω or less)
Main Unit	350mm (w) x 420mm (d) x 440mm (h); ~18 kg
RP	170mm (w) x 487.5mm (d) x 249.5mm (h); ~27 kg