



UMF Equipment – Plasma-Enhanced Chemical Vapor Deposition (PECVD) for Carbon Nanostructure

Aixtron BM Pro 4

Plasma-enhanced chemical vapor deposition (PECVD) is a chemical vapor deposition process used to deposit thin films from a gas state (vapor) to a solid state on a substrate. Chemical reactions are involved in the process, which occur after creation of a plasma of the reacting gases. Our systems offer a turnkey solution for carbon nanotube and graphene production. The system can operate in both thermal CVD and plasma-enhanced CVD modes, which is extremely important for controlling the structure of carbon nanomaterials as it enables virtually all variations and morphologies of carbon nanotubes and graphene to be produced.

Features:

- Substrate size: Up to 4" wafer
- Fast response heater, up to 300°C/ minute ramp rates
- Excellent reproducibility for carbon nanotubes and graphene
- Closed loop infrared wafer temperature control
- Automatic process control
- Fast growth and processing

Please refer to supplier information page: https://www.aixtron.com/ for further details of the system. For any inquiry, please contact Dr. Terence Wong (Tel: 3400 2075; Email: tai-lun.wong@polyu.edu.hk).



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