Amod

Deposition Sources
With its 500mm x 500mm baseplate, your Amod can accommodate up to 10 sources and a wide variety of PVD processes. The chamber can be integrated to a glovebox, a cleanroom wall, or in standalone configuration. With our standard chamber height of 500mm, your Amod system is very customizable to your process requirements.

Sputtering
RF, DC, pulsed DC, and HiPIMS
Circular, linear & cylindrical cathodes available

Thermal Evaporation
Wide range of boats, filaments & crucible heaters
Auto-tuning ensures precise rate control and simple setup

Electron Beam Evaporation
Wide range of source and power supply options
Programmable sweep controller with recipe storage
Torque sensing crucible indexer detects pocket jams

Plasma and Ion Beam Processing
Range of ion sources for cleaning & film enhancements
Glow discharge plasma cleaning

Vacuum Control
Your Amod can be configured for high vacuum (HV) or ultra-high vacuum (UHV) utilizing a turbo pump or cryo pump. Chamber construction can be high-purity aluminum or stainless steel using Viton or metal gaskets. We can help you decide what is best for your application.

Substrate Fixturing and Masking
Heated, Cooled, & Biased Stages
LN2/GN2 cooling to -170°C
Heating to 900°C
Auto-calibration via AERES software
RF or DC stage biasing

Planetary & Dome Fixturing
Domed substrate carrier for lift-off and batch processes
Planetary motion & Rip fixturing available

Load Locks & Mask Handling
Manual, semi-auto or full-auto substrate and mask handling
Options for single substrate or high capacity parking chambers

Roll to Roll Processing
Servo driven wind and unwind for precise speed and tension control
Allows flexible substrate coating using production technology
Process is scalable for high throughput

Variable Angle Stages
Conformally coat 3D features
Create complex nano-structures
-90° to 90° tilt with continuous rotation
Heating and cooling options available

“We have several labs with over $2M of equipment from 30+ vendors and Angstrom Engineering has the best customer service. I like the fact that they are willing to work with customers to meet their needs.”

Dr. Quyen Nguyen
University of California Santa Barbara

AERES Integrated Software
Simple to use yet highly advanced integrated software platform
PC/PIC controlled recipes for single, batch, or automated processes
Advanced data logging and process tracking ensure consistent and repeatable processes
High resolution controller provides impressive low rate stability and consistent doping ratios
Designed to be e95-1 compliant
Your Amod can be everything you need it to be:

- Cadmium telluride photovoltaic deposition system
- Noble metal UHV evaporation system
- Dielectric optical sputtering system for broadband filters

Service and Support: Our Commitment
An Angstrom system in your lab makes us partners; we become part of your team. We guarantee same day response to any service inquiry regarding parts, technical support, and software support.

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