

# Amod

# **Deposition Sources**

With its 500mm x 500mm baseplate, your Amod can accomodate up to 10 sources and a wide variety of PVD processes. The chamber can be integrated to a **glovebox**, a **cleanroom wall**, or selected in a 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.

Our team of engineers, chemists, and nanotechnologists will help design the best tool for your process and material requirements. We offer support and can optimize your system for film thickness uniformity, film structure and material utilization.

Please call us to discuss your application in detail.

# 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 & flip 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

Comformally coat 3D features Create complex nano-structures -95° to 95° tilt with continuous rotation Heating and cooling options available

meet their needs.

"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

> Dr. Quyen Nguyen University of California Santa Barbara

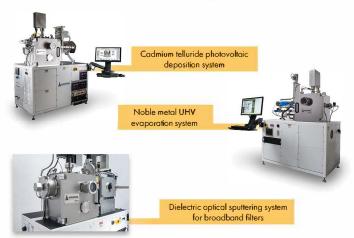
> > Designed to be e95-1 compliant

# **AERES** Integrated Software

Simple to use yet highly advanced integrated software platform PC/PLC controlled recipes for single, batch, or automated processes Advanced data logging and process tracking ensure consistent and repeatable processes High resolution control provides impressive low rate stability and consistent doping ratios

ANGSTROM

# Your Amod can be everything you need it to be:



## 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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