Sputtering, Evaporation, PVD Deposition

NEW Tri-Axis™ ... the All-in-One Thin Film System

Sputtering, Evaporation, PVD Deposition, Tri-Axis™ is Industry's FIRST, cost-effective “Open-Platform” design for precise R & D and Small Batch production, Tri-Axis™ offers many standard options and custom formats. Created and developed by engineering talents at Semicore, a Silicon Valley based manufacturer, this innovative advance extends capabilities while generating high levels of performance. It delivers a range of accurate coatings for a variety of materials and hybrid substrates used by electronic, optical, solar energy, medical, automotive, military, aerospace and related “high-tech” industries.
Configure Tri-Axis™ Versatility to Meet your Special Needs

Tri-Axis Features & Options

**Vacuum Chamber:** 304 stainless steel cylindrical chamber, typical size range 18 or 24 inch diameter – scaled to match the specific application.

**Pumping:** Turbomolecular or cryogenic

**Load Lock:** Manual or automatic transfer, high vacuum pumping. Accommodates small samples of various shapes and sized or a single substrate up to 200 mm diameter.

**Process Control:** PC / PLC based process automation with graphic user interface, recipe control, data logging and remote e-support.

**In-Situ Monitoring & Control:** Quartz crystal monitoring, optical monitoring, residual gas analyzer and other in-situ measurement and process control.

**Substrate Fixture:** Single, multiple, planetary or custom substrate fixtures

**Substrate Holders:** Heated, cooled or biased, rotating substrate holder

**Ion Source:** Substrate pre-cleaning assisted deposition, nanometer-scale modification of surfaces.

**Tri-Axis™ Deposition Techniques:** Magnetron Sputtering RF, DC, or Pulsed-DC. Electron Beam Evaporation, Thermal Evaporation, Organic Evaporation for OLED/PLED and Organic Electronics. Glancing Angle Deposition (GLAD)/Cathodic Arc Plasma Deposition, Pulsed Laser Deposition (PLD)

**ABOUT US**

Need Standard or Custom equipment? We welcome your thoughts, your ideas, be they unconventional or off-the-shelf. If you have specific goals, with or without actual “spec’s”, we’ll work to convert ideas into quality realities, stressing cost-controls. Our Engineering Evaluation Services are open to you at no charge. Semicore has sales and service centers strategically located throughout the globe to best serve our customers. For further details log on to www.semicore.com

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