New from SEMICORE

Impel PVD Multi-Chamber Deposition Systems

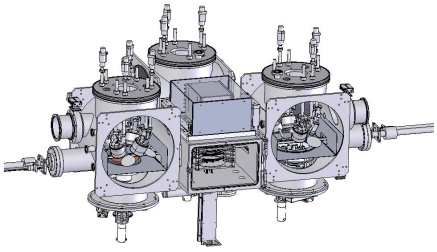
Semicore's Impel PVD systems utilize a cost-effective modular design that is easily configured to suit a variety of thin film deposition applications, typically for R&D or small batch production. Up to three process chambers, each uniquely configured for a specific application, share a central load lock for handling various substrate shapes and sizes up to 200mm. Integrated computer control with recipe based operation, tolerance checking and data logging is featured. A comprehensive list of standard options is available to configure the Impel PVD system to suit your specific requirements. Bulkhead or ballroom installation is available.

The Global Source
SEMICORE
Complete Solutions for Standard and Custom Vacuum Deposition

470 Commerce Way, Livermore, CA 94551 • 925-373-8201
www.semicore.com

Impel PVD FEATURES & OPTIONS

VACUUM CHAMBER
Up to three independent process chambers, 16 or 24 inch diameter, stainless steel - scaled to match the specific application.
Rear chamber access door for service and maintenance.



ALUMINUM DOOR WITH VIEWPORT *(standard)*

PUMPING
Turbomolecular or cryogenic.

LOAD LOCK
Manual or automatic transfer, high vacuum pumping, various substrate sizes and shapes up to 200 mm.

PROCESS CONTROL
Integrated computer control with recipe based operation.

MONITORING
Crystal monitoring, optical monitoring and special data gathering software for in-situ measurement of film deposition.

SUBSTRATE HOLDERS
Rotating substrate holder can be heated, cooled or biased.

GAS AND PRESSURE CONTROL
Single or multi MFC gas channels, dymanic pressure control.

ION SOURCE
Pre-cleaning, IBAD - assisted deposition, milling.

Impel PVD 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)*

Semicore PVD systems are also available in single chamber configurations for R&D applications. Contact Semicore or see our web site for details.

The Global Source
SEMICORE
Complete Solutions for Standard and Custom Vacuum Deposition

470 Commerce Way, Livermore, CA 94551 • 925-373-8201
www.semicore.com