

Electron Beam Evaporation Systems

PVD Products provides a broad range of electron beam and thermal evaporation systems. Planetary or simple rotation stages can include heating to temperatures greater than 950°C, depending on substrate size and material. Ion sources for IBAD and substrate pre-cleaning can be integrated into our systems as well.

All of our evaporation systems come with complete pumping stations, manual or electro-pneumatic valves, all vacuum gauges, a power distribution box, electronic racks, water and air manifolds, and safety interlocks. Systems can be operated manually or via computer control.

Substrate heaters and manipulators can be designed for non-standard substrate shapes and sizes. Applications include basic materials research, SAW devices, silicon and GaAs wafer metallization, MEMS or display technology, and more.



UHV E-Beam System

System can be controlled by recipes for full automation



Box-Style Evaporation System

Dual multi-pocket e-beam sources with a 6" water-cooled GLADS substrate stage

Many system options are available, including a wide range of electron beam and thermal sources, power supplies, integration of ion beam or magnetron sputter sources, RGA's, UHV capability, multi-wafer load locks, and in-situ monitors.

We have delivered evaporation systems worldwide and are well known for quality products and strong customer support long after the product has been delivered.

PVD Products will build an evaporation system to meet your specific deposition requirements. Contact PVD with your system specifications for a quotation.

Evaporation SYSTEMS



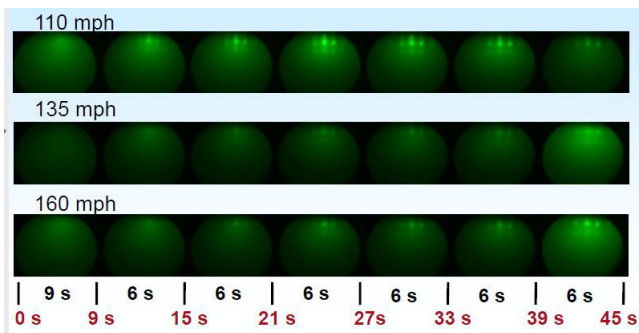
Reel-to-Reel Dual Chamber Evaporation System

Right-hand chamber: RF linear ion source for IBAD deposition
 Left-hand chamber: substrate heater to grow homo-epitaxial MgO films



UHV Evaporation System

Grows large number of highly uniform superconducting Mo films to fabricate bolometers for high profile space telescope application



Real-Time Process Monitoring

RHEED patterns from successive lanes of tape during the growth process, speed shown in meters/hour

PVD Products

Fueled by creative problem-solving, our team of experienced engineers and technicians is passionate about finding the best solution to your unique deposition system demands. We provide end-to-end support, from design through installation and continuing maintenance.

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