**CHA Electron-Beam Evaporator**

The CHA is a multi-pocket electron beam evaporator. It is a high vacuum (10-7 Torr) e-beam evaporation system that can be used to deposit metals. The system can accommodate up to four crucibles at a time to allow sequential deposition. The wafer holder of the system can hold up to 3 two inch wafers or many diced wafers. The system is equipped with a quartz crystal microbalance for deposition rate control and thickness monitoring.

Metals such as aluminum, nickel, titanium, chromium, and silver are typically evaporated using this machine.

The system also has thermal evaporation capabilities. Typically gold is evaporated using this technique.