



Hummer 6.6® DC Turbo Hybrid

**Turbo Pumped, Planar Magnetron
Cold Deposition Sputtering System**

APPLICATIONS:

**Microelectronics
Optical Sciences
Nano Technology
Aerospace Industry
Superconductor Research**



Rugged, Reliable Designs

Hummer systems are built to deliver many years of service. Since 1971, more than 5000 **Hummers** have been installed world wide. **Anatech USA** backs Hummer products with excellent customer service and after sales support.

Plating with a Hummer®

Depending on the metal source installed, Hummers can deposit thin films of gold, gold/palladium, silver, platinum and other metals. To use a different metal source, simply pull out one, and push in another. The HUMMER top plate is hinged for easy sample loading and retrieval. The rotating stage accepts all kinds of SEM stubs. The cool, Omni directional shower of secondary ions and neutrals produces finer grain deposits than thermal coating processes.

When processing is finished, a solenoid controlled vent valve slowly brings the process chamber to atmospheric pressure, preventing turbulence. This also prevents oil migration from pump to process chamber, as can happen with manually vented systems.

Vacuum System

The Hummer's critical components are totally enclosed in a single cabinet. The mechanical vacuum pump is remotely located near the process chamber allowing fast pump down. Vacuum connections are made and checked for leakage during manufacture, assuring vacuum integrity and allowing quick startup because little assembly is required. Safety interlocks for vacuum and high voltage protect both operator and equipment.

Standard Features

Large Pyrex chamber with hinged top for easy access to sputter source and sample substrate.

Planar Magnetron Sputtering Source

Automatic slow venting at termination of process.

Sample stage accommodates up to 6-inch diameter substrates or 12 SEM stubs.

Rotatable 2-RPM sample stage adjusts 2" vertically.

Two-stage direct drive rotary pump assures rapid pump-down.

Power supply for sputter source is 500 watts DC.

Precision needle valve for gas metering

Options

Planar Magnetron source: size selection

Wide selection of targets made from precious metals and other materials.

Water Chiller Recirculation for system cooling

Oxygen Preparation to Class "B" specification

System Specifications

Power consumption - 115 VAC, 60 Hz, 6 amps - 220-250 VAC, 50 Hz, 3 amps

Power output - 0-3000 Volts, 0-50 mA Chamber dimensions 200-mm x 304-mm

Cabinet dimensions - 22" W x 20" D x 14" H Shipping weight - 110 lbs.

CALL ANATECH USA TO DISCUSS YOUR APPLICATION !!!

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