



PLANAR MAGNETRON SPUTTERING SYSTEMS

Hummer® 6.6 RF Turbo



**System shown with optional
Water Chiller
and
Dual Gas Flow Rate Meters**



**APPLICATIONS:
SEM, R&D, FA, Material Research,
Quartzing and other
Thin Film Environment challenges**

Anatech USA's Hummer® tools perform sputter coating, a cold process in which ions impacting a metal source dislodge metal atoms that disperse and uniformly coat irregularly-shaped specimens without thermal damage.

Anatech Hummer 6 performs sputter coating, a cold process in which ions impacting a metal source dislodge metal atoms. The atoms disperse throughout the process chamber to uniformly coat irregularly shaped specimens without thermal damage. Sputter coating produces high quality coatings whose thickness is repeatable and easily controlled. Cold, fast sputter rates require less time, giving you more time for microscope examinations.

STANDARD BENEFITS / FEATURES

High sputter rate of metals and insulators with 300 watts of RF power at 13.56 MHz.

Operator safety is assured with interlocks for vacuum and power.

Stainless steel chamber with 4-inch view port

Planar Magnetron Sputter Source

Sample stage accommodates up to an 6-inch (150-mm) substrate or multiple smaller substrates.

Stage rotates 0-20 RPM and adjusts 2" vertically. A two-stage direct drive rotary pump assures rapid pump-down.

Easy access to sources and chamber simplifies target change and routine maintenance.

Turbo High Vacuum pump is internal to the cabinet.

OPTIONS

RF power upgrades

RF Matching Network

DC power addition / substitution

Planar Magnetron Source: size selection

Gas Flow Rate Meters

Water chillers

Pneumatic source shutters

Oxygen service preparation

PLATING WITH A HUMMER ®

Depending on the metal source installed, Hummers can deposit thin films of precious metals and insulators.

To use a different metal source, simply pull out one, and push in another. The HUMMER top plate lifts off for easy target change and maintenance.

The stage accepts many sizes of substrates up to 150 mm (6-inch). The stage rotates under the sputter head to achieve uniformity over a 150-mm diameter substrate.

The cool, Omni directional shower of secondary ions and neutrals produces finer-grain deposits than thermal coating processes.

RUGGED, RELIABLE DESIGNS

Hummer systems are built to deliver many years of faithful service. Since that first system made in 1970, more than 5000 Hummers have been installed all over the world.

Vacuum connections are made and checked for leakage during manufacture, assuring vacuum integrity and allowing you to start working sooner because little assembly is required.

Safety interlocks protect both operator and equipment. Anatech USA backs Hummer products with excellent customer service and support. A full line of spare parts is available for product maintenance.

SPECIFICATIONS

Power requirements - 110-220 VAC, 50/60 Hz, 20 Amps

Power output - 0-300 watts RF generator, 13.56 MHz

Manual matching network

Dimensions - 21" D x 21" W x 25" H (cabinet)

CALL ANATECH USA TODAY TO DISCUSS YOUR APPLICATION

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