

Vertical Sputtering Systems



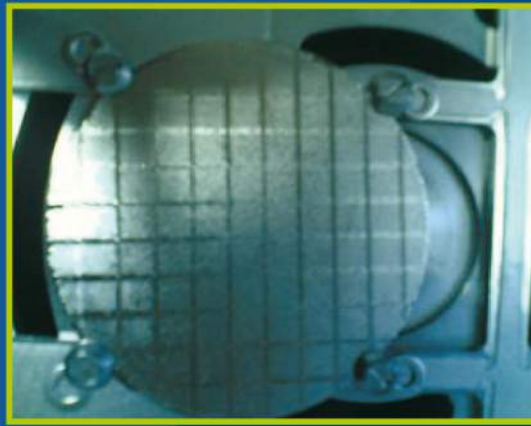
Vertical sputtering model KS 80 V

Kenosistec designed the vertical sputtering systems of the KS-V family to enhance **HIGH THROUGHPUT**, **IMPROVED FILM UNIFORMITY** and **PROCESS VERSATILITY** as required by a demanding production environment

The vertical sputtering configuration typically minimizes particulate contamination (pinholes) and is therefore preferred in process development and in any production environment where the application needs targets producing an high level of particulate.



Vertical sputtering model KS 40 V



APPLICATIONS

Thin film structures of metals, semiconductor and oxides for Aerospace, Microelectronics, Sensors, Automotive, Optics, Telecom, Energy.



GENERAL FEATURES

Configuration

Vertical Sputtering System

Substrate handling

All the KS....V models include automatic handling of the substrate holder. Optional devices for substrate heating or cooling are available. Planetary rotation of the pallet can be added as well as an optional load-lock chamber. A complete set of carefully engineered options is also available for matching special requirements.

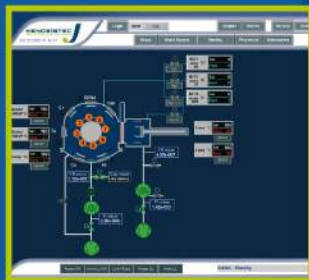


Co-sputtering

Sequential with Rectangular cathodes up to 36"

Gas & Pressure

Up to 5 independent MFC's with individual shut off valve. Upstream and Downstream pressure control.



Process controller

PC-PLC system. Fully automatic and manual operation with safety interlocks. Advanced editing functions. Remote assistance

TECHNICAL SPECIFICATIONS

Chamber dimensions, mm
 Rectangular Magnetron Cathodes
 DC Power Supplies
 RF Power Supplies
 Substrate size
 Substrate Heating
 Substrate Cooling
 Ultimate Pressure
 Ultimate Pressure in the UHV models
 Pumping System

KS 40 V

Ø 500, h 400
 6 x up to 12" long
 Up to 5 kW
 Up to 1500 W
 Up to 10"

KS 80 V

Ø 1000, h 800
 6 x up to 22" long
 Up to 10 kW
 Up to 5000 W
 Up to 20"

KS 120 V

Ø 1000, h 1200
 6 x up to 36" long
 Up to 10 kW
 Up to 5000 W
 Up to 34"

Standard 350° C - Optional up to 800° C
 Water or LN
 5 x 10⁻⁷ mbar
 10-9 mbar range
 Cryo or turbomolecular

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