



Confocal Sputtering Systems

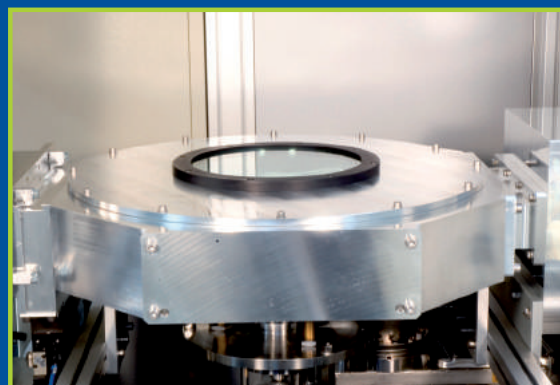


Confocal sputtering model KS500C

Kenosistec designed the confocal sputtering systems of the KS-C family to enhance, **IMPROVED FILM UNIFORMITY, PROCESS VERSATILITY** as required by a demanding R&D.



Four pallets parking station



Load lock chamber

Confocal geometry allows the use of reduced size targets and this feature makes the KS-C models the ideal tools for R&D and **PROCESS DEVELOPMENT**. A full range of options is available to optimise KS-C performances for special applications

APPLICATIONS

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

GENERAL FEATURES

Configuration

Sputter up or sputter down

Substrate handling

All the KS...C models include automatic handling of the substrate holder. Substrate rotation to improve deposition uniformity. Load lock with optional parking device is included. Optional devices for substrate heating or cooling are available.

Co-sputtering

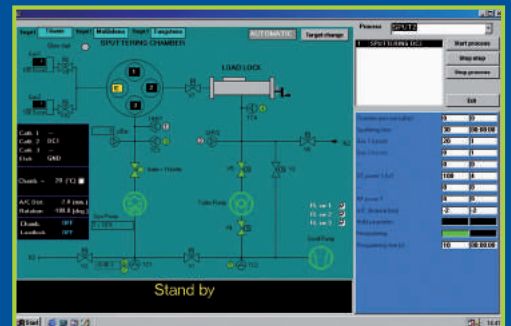
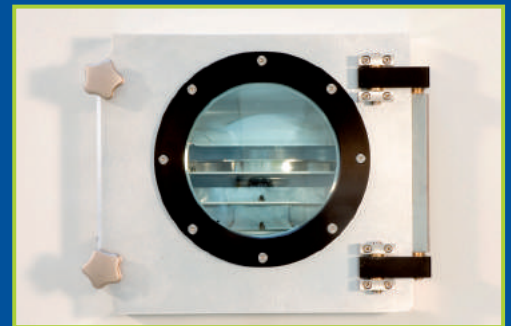
Co-sputtering is a feature of the confocal geometry and cathodes up to 4" can be utilized. A shutter for each position and special shield to avoid cross contamination are included.

Gas & Pressure

Up to 3 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

	KS500C	KS300C
Chamber dimensions, mm	Ø 600, h 450	Ø 500, h 400
Rectangular Magnetron Cathodes	4 x up to 4"	4 x 2"
DC Power Supplies	Up to 2000 W	Up to 1000 W
RF Power Supplies	Up to 1500 W	Up to 600 W
Substrate Size	Up to 6"	Up to 4"
Substrate Heating	Standard 400°C - Optional up to 800°C	
Substrate Cooling	Water or LN	
Ultimate Pressure	5 x 10 ⁻⁷ mbar	
Ultimate Pressure in the UHV models	10-9 mbar range	
Pumping System	Turbomolecular	

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