

A Load-lock Type Sputtering System [CS-200]

The CS-200 is equipped with a 4-inch Magnetron cathode for various target materials. The system can be used for research & development and for small and medium-scale volume production.

The system is targeted for high-performance and high reliability sputtering, based on ULVAC's abundant experience and sputtering technology portfolio.



Features

- ▶ Substrate transfer capability up to 300mm (Deposition performance up to 200mm).
- ▶ Automatic multi-layered deposition by recipe control.
- ▶ Capable of automatic substrate transfer by simply loading the substrate on to manipulator in the Load-lock chamber.
- ▶ Co-sputtering and Multi-layer deposition by using multi cathodes.
- ▶ Bias-sputtering available with optional substrate Bias power supply.

Applications

- ▶ R&D
- ▶ Small production purpose

A Load-lock type Sputtering system [CS-200]

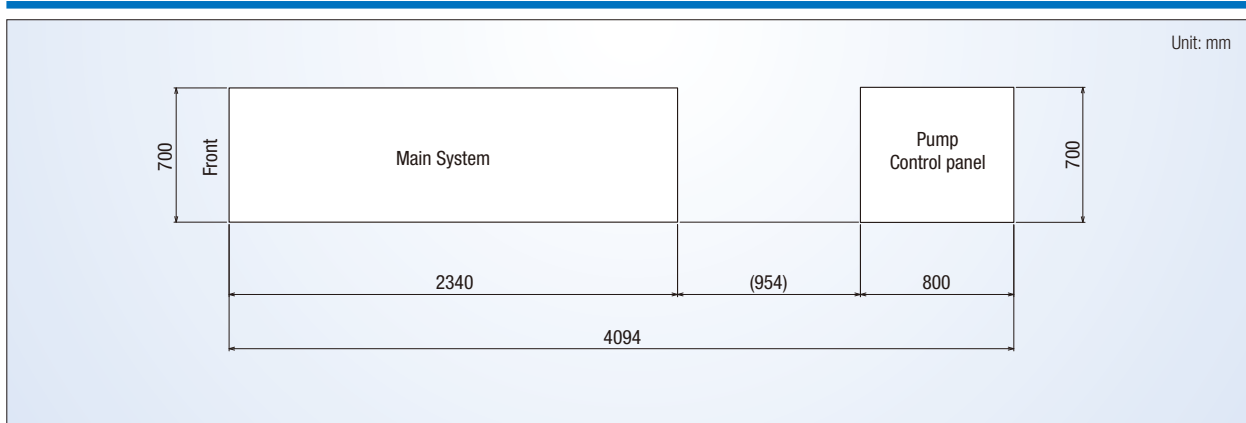
Specifications

Ultimate pressure	Sputtering chamber	Pa	1.0×10 ⁻⁴ or less
		Torr	7.5×10 ⁻⁶ or less
Wafer size	Up to 300mm		
Film thickness uniformity	±5% or less within 200mm (4 inch cathode)		
System configuration	Load-lock chamber +Sputtering chamber		
Sputtering method	Deposition Up/Deposition Down		
Cathode	4 inch×4		
Power supply	RF1kW power supply (For Sputtering and Etching)		
	DC2kW power supply (For Sputtering)		
Vacuum evacuation system	Turbo molecular pump and Rotary pump		
Control system	Touch panel type control unit		
Transfer robot	Pneumatic operation manipulator		
Option	APC system, 3 inch cathode, Bias sputtering, Substrate Heating (600°C), Cryo pump, Dry pump, 5slots cassette, GPCS-2700 (PC+PLC) control		

Utilities

Electricity	50Hz/60Hz 3 Phase 30KVA approx.		
Cooling water	0.2MPa, Temp. 20 to 28°C, 27L/min		
Compressed air	0.6 to 0.7MPa		
Gas	Process	Ar: 0.05MPa	
	Vent	N ₂ : 0.05MPa	
	Dry pump (Option)	N ₂ : 0.05MPa	
Grounding work	Class A and Class D		

Dimensions



ULVAC, Inc. Semiconductor & Electronics Equipment Global Business Unit

www.ulvac.co.jp/eng

Overseas Sales department TEL +81-467-89-2016

USA : ULVAC Technologies, Inc. TEL +1-978-686-7550
 GERMANY : ULVAC G.m.b.H. TEL +49-89-960909-0
 CHINA : ULVAC (SHANGHAI) Trading Co.,Ltd. TEL +86-21-6127-6618
 TAIWAN : ULVAC TAIWAN, Inc. TEL +886-3-579-5688
 KOREA : ULVAC KOREA, Ltd. TEL +82-31-683-2922
 SINGAPORE : ULVAC SINGAPORE PTE LTD TEL +65-6542-2700

PHILIPPINES : ULVAC Singapore Philippines Branch TEL +63-2-828-7700
 VIETNAM : ULVAC Singapore Vietnam Representative Office TEL +84-8-62556762
 THAILAND : ULVAC (THAILAND) LTD TEL +66-2-312-4447
 MALAYSIA : ULVAC MALAYSIA SDN. BHD. TEL +60-3-5121-4700
 INDIA : ULVAC, Inc., India Branch TEL +91-40-27007006
 RUSSIA : OOO ULVAC TEL +7-495-651-8747

▶ This catalog is subject to change without notice.

▶ This catalog is published in order to sell this product in verseas. Please see Japanese catalogue when purchasing in Japan.