Sputtering system

ULVAC offers a wide range of sputtering systems with a proven track record.

Evaporation system

ULVAC has delivered more than 3000 evaporation systems.

Ultra-High Vacuum Sputtering System for R&D

MPS Series

Features

The MPS series sputtering system is a new design developed based on our wealth of experience and extensive sales record. Plasma discharge pressure can be maintained lower than conventional sputtering, and along with the use of long throw sputtering, the system is capable of very good uniformity. The angle of the cathode is ideal for Co-sputtering and multilayer films. MPS Series Batch-type Sputtering System

SX Series

Features

Batch-type Sputtering System SX series is for batch type sputtering system for research & development and small production application.



Compact Sputter Sputtering System

ACS-4000

Features

The ACS-4000 is designed for the R & D industry and for the development of multi-layer thin films, compound materials and other technology. The system can handle up to 4 inch substrates and comes equipped with automatic process operation.

High Productivity Sputtering System

SRH Series

SRH Series is a high volume

PVD system for the deposition of

device, WL-CSP, UBM or similar

metallic films required in the power

Features

applications.



Load Lock Type Compact Sputtering System

CS-S

Features

Load lock type compact sputtering system CS-S supports various materials for R & D and Mass production equipment.



Sputteing System for Optical Filters and Coating

ULDiS Series

Features



Batch or Loard Lock Type High Vacuum Evaporation System

ei Series

Substrate size: ϕ 2 to 6 inch Supports rectangular, Si, compounds, glass and ceramics substrates

Features

- Batch type system, available with loading chamber.
- 3000 delivered systems.
- Various evaporation sources can be loaded. (EB, RH. EB + RH)
- Substrate holders according to the process. (lift-off, planetary, satellite, etc.)
- Touch Screen LCD for system operation.

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Series List

Loaded number Revolution dome

SS distance

Substrate holder

Incident angle (Lift-off)

Footprint

24 pc···Ф4 in 8 pc···Ф6 in

680mm

Revolution, Planetary or Satellite can be selected

4.3° ··· Ф 4 in 6.4° ··· Φ 6 in

W2.0m* D3.0m* H2.0m

Both EB + RH evaporation types In addition to features of ei-5,

 Superior PC-operating system and functions. (Recipe, Data logging, Maintenance assist)





ULVAC

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ei-5(Batch type)

EVD ULVAC EVD-600LP Features Batch type.

TA

1,000mm

Revolution, Planetary or Satellite can be selected

3.0° ··· Ф 4 in 4.4° ··· Ф 6 in

W3.0m* D3.0m* H2.5m

oved lift-off with Long_SS

Batch type high Productivity evaporation System

Substrate size: ϕ 2 to 8 inch

44 pc···Ф4 in 20 pc···Ф6 in

Revolution, Planetary or Satellite can be selected

3.3° ··· Ф 4 in 4.9° ··· Ф 6 in

W2.3m* D3.0m* H2.0m

Increased number of loadable substrates

 Improved Lift-off function and increased number of loadable substrates.

Snec

730 to 750mm

W2.3m* D3.0m* H2.0m

· Both EB + RH evaporation types

Dual sensor (2 pieces) Lift-off type planetary st

Item	Description
Vacuum performance	Ultimate pressure: 3.0×10-5 Pa or less Pumping speed: 20 min from atmospheric pressure to 3.0×10-(Pa)
Sputtering performance	Film thickness uniformity: \pm 5% or less Incident angle: $<$ 10 $^{\circ}$ (@4 in)
Substrate heating performance	Max. temperature: 350°C Temperature distribution: +/-10°C or less
Capacity	282 pc/ Ф 2 in 87 pc/ Ф 4 in 36 pc/ Ф 6 in

44 pc··· Ф4 in 20 pc··· Ф6 in

900mm

Revolution

3.3° ··· Φ 4 in 4.9° ··· Φ 6 in

W5.5m* D4.0m* H2.7m

n addition to features of ei-7

ELX-2000

12 рс···Ф4 in 4 рс···Ф6 in

600mm

Revolution

4.9° ··· Φ 4in 7.9° ··· Φ 6 in

W3.2m* D3.0m* H2.3m

High Throughput (especially, heating process)

Both EB + RH evaporation types

The ULDiS sputtering system is designed specifically for optical applications. ULVAC has signed a license agreement with JDS Uniphase Corporation in the U.S (license MetaMode®). This system is capable of depositing materials for high-quality optical filters and coatings.



 Dual sensor (2 pieces)
 Power supply and compresso are incorporated into the fram
 Unified control on the operation panel Both Max. loading and lift-off are satisfied Dual sensor (2 pieces)
Material exchange (OP) Multi-sensor (12 pieces) Low damage
 Unified control on the operation panel Features Movable correction plate Elevating dome Unified control on the operation panel
 Logging function
 large install base
 Movable correction plate
 Low power and high rate with W hearth liner Logging function
 Movable correction plate Elevating dome Unified control on the operation paner

- Logging function

- Movable correction plate

- Low power and high rate with W
hearth liner paner
Logging function
Movable correction plate
Low power and high rate with W
hearth liner Low power and high rate with W hearth liner Logging function

Low power and high rate with Whearth liner **ULDiS Series** SRH Series 27 From 2009 Actual sales 499 From 2004 11 From 2005 3 From 2010 15 pc/hr··· Φ 4 in 5 pc/hr··· Φ 6 in

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