

Hitachi Ion Sputter MC1000

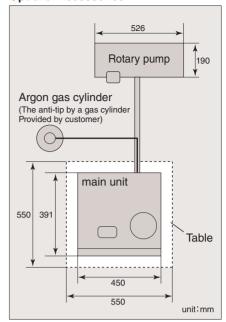
Specimen damage has been minimized through adoption of the magnetron type electrode.



Specifications

| - Item | | Description |
|--|----------------|---|
| Discharge | Туре | Diode discharge magnetron type (electric field perpendicular to magnetic field) |
| | Electrode form | Opposed parallel disk (magnet embedded) |
| | Voltage | 0.4 kV DC max. (variable through phase control) |
| | Current | 40 mA DC max. |
| Coating rate (max.) '1'2 <conditions> Pressure: 7 Pa Discharge current: 40 mA Distance between target and specimen surface: 30 mm</conditions> | | Pt target (option) 15 nm / min Pt-Pd target (option) 20 nm / min Au target (option) 35 nm / min Au-Pd target (option) 25 nm / min |
| Specimen | Max. diameter | Ф60 mm |
| | Max. height | 20 mm |
| Rotary pump | | 135 / 162 I / min (50 / 60 Hz) |
| Target ² | | Pt, Pt-Pd (8:2), Au, Au-Pd (6:4) |
| Power supply requirements | | Single phase, AC 100 V (±10 %) 15 A, (50 / 60 Hz), 3-Pin plug code (3 m) |
| Dimension | Width | 450 mm |
| | Depth | 391 mm |
| | Height | 390 mm |
| Weight | | Main unit∶Approx.25 kg Rotary pump∶Approx.28 kg |

Optional Accessories



Optional Accessories

| Item | Description | |
|------------------------------------|---|--|
| Layer Thickness Measurement & | Layer Thickness Measurement setting range: 1.0 to 30.0 nm | |
| cooling control Unit ⁻³ | Cooling temperature control range: Room temperature to (room temperature -25) ℃ | |
| Evaporation unit | Evaporation material C (use of lead for Mechanical pencil) | |
| Large chamber*4 | Max.diameter:Φ150 mm Max.height:20 mm | |
| Auto-transformer | Corresponded Voltage: 115, 200, 208, 220, 230, 240 V. | |
| | CE is not confirmed. | |

^{*3:} It should be ordered with main body simultaneously. It cannot be mounted to the large chamber.
*4: It should be ordered with main body simultaneously.

Installation Requirement / Items to be prepared by customer

| ltem | Description | |
|-----------------------------|--|--|
| Room temperature | 15 to 30 ℃ | |
| Humidity | 45 to 85 % or less | |
| Power supply ^{∗5} | AC100 V (±10 %), 50/60 Hz, 1.25 kVA | |
| Grounding | 100 Ω or less | |
| Argon gas cylinder | Pure gas (99.99 % or more) | |
| Pressure regulator | Secondary pressure regulation range 0.03 to 0.05 Mpa | |
| Argon gas connecting pipe*6 | 1/4-inch SUS pipe, Length within 2 m | |
| Argon gas joint | 1/4-inch Swagelok type pipe | |
| Oximeter*7 | 18 % or more oxygen concentration capability | |
| Recommend table | 550 mm (W) × 550 mm (D) × 700 mm (H) or more, | |
| | Withstand load: 30 kg or more | |

NOTICE: For correct operation, follow the instruction manual when using the instrument.

Specifications in this catalog are subject to change with or without notice, as Hitachi High-Technologies Corporation continues to develop the latest technologies and products for our customers.

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^{*1:} Coating rate is reference only.
*2: Target is not included in the main body. Please choose from the options.(Pt, Pt-Pd, Au, Au-Pd)

^{*5:} MC1000 is equipped with a power cord with 3-pin plug or with M6 crimp contact terminal.
*6: Piping and pressure regulator have to be prepared locally.
*7: Ar gas is suffocative, please prepare ventilation system in the installation room. Please follow any applicable law or regulations for your safety.