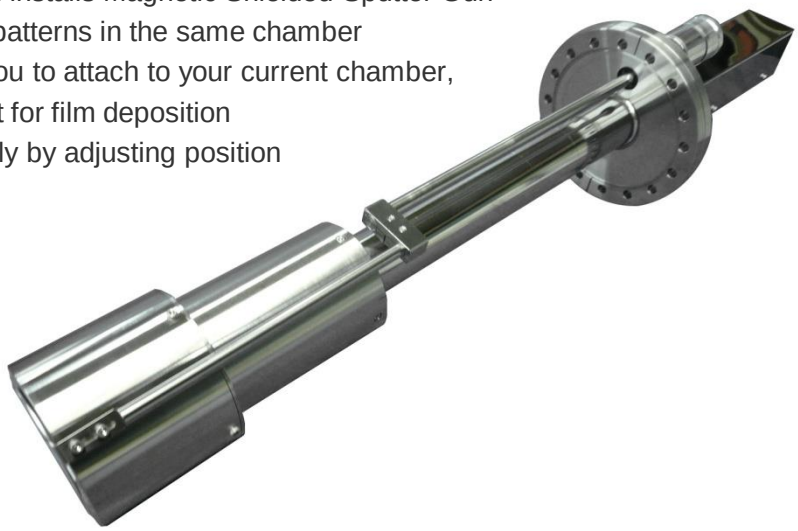
Magnetic Shielded Sputter Gun

VIBRATION ISOLATOR & CHAMBER PRODUCTS
VIC International

Magnetic Shields enable the RHEED measurement in the same chamber
Small sized, Low cost, Attachable to the current chamber

Feature

- Applicable to various targets such as metal, insulator, magnetic material, or non-magnetic material
- VICs Film Deposition Chamber which installs Magnetic Shielded Sputter Gun enables you to measure the RHEED patterns in the same chamber
- The flange mount structure enables you to attach to your current chamber, then provides you kinds of experiment for film deposition
- Erosion adjustment is carried out easily by adjusting position or exchanging for internal magnet



Application:

- Film Coating
- Semiconductor Device
- Superconductor Film
- MEMS

Specification

Target Size	Φ５０．８×３mm
Sputter discharge pressure	５０Ｐａ～０．５Ｐａ
Discharge Method RF（13.56MHz）	３００Ｗ　MAX
Earth-cover	Φ８０×７２mm 78 Permalloy（magnetic annealing）
Fitting Flange	ＩＣＦ１５２ ＊ Kinds of flanges available.
Length	６４０mm（±５０mm）
Length from flange to end point	３７０mm（±５０mm）
Shutter	Φ７６mm 78 Permalloy (magnetic annealing)
Shutter Structure	Swing, Z direction moving (for magnetic shielding)
Cooling Water	３Ｌ／ＭＩＮ
Baking Temperature	１１０℃
Optional	Power Supply for RF300W/DC500W Auto tuning of matching BOX Z axis stage Normal Magnetron Sputter Gun

RHEED picture with installed Sputter Gun

Pressure：5.8×E－6 Pa
RHEED output：25Kv 2 A
Substrate：C-AL 203
Incident Azimuth：10-10