

# NANO-MASTER Optical Coating Systems

## NOC-4000 Dual Chamber Optical Coating System



### Applications

- Optical Coatings
  - Sputtering
  - IBAD
- Ion Beam Etching Cleaning
- Ion Beam Assisted Reactive Etching
- Infrared Coatings
- Surface Treatment

### Features

- RF Biasable Platen
- Thickness Monitor
- $5 \times 10^{-7}$  Torr Base Pressure
- High Accuracy and Repeatability
- High Quality Films
- Atomic Level Clean Surfaces
- Atomic Cleaning and Polishing
- PC Controlled with LabVIEW
- Automatic Load/Unload
- Automatic Transfer Between Chambers
- Recipe Driven, Password Protected
- Safety Interlocks
- 46"D x 44"W Footprint

### Options

- Sputter Down/Up
- Co-Sputtering
- DC, RF and Pulsed Power Supplies
- Ion Beam Assisted Deposition
- E-Beam Sources
- Plasma Sources

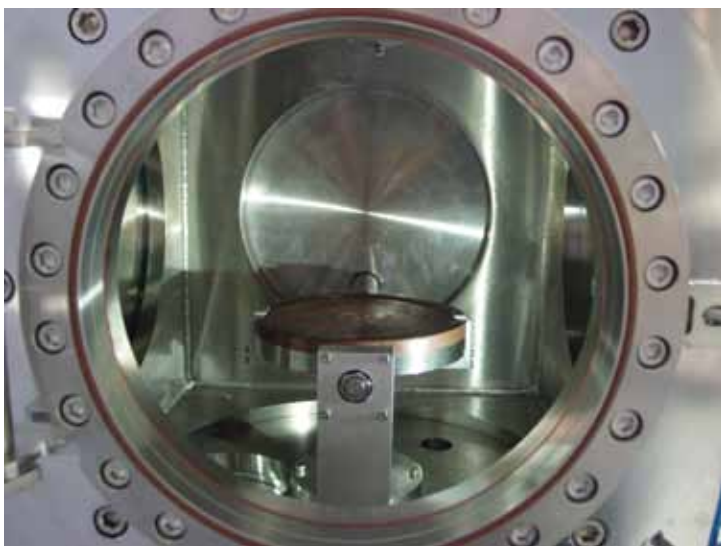
The NANO-MASTER NOC-4000 Optical Coating System provides state of the art atomic cleaning and polishing of optical samples in one chamber and automated sample transfer to a second chamber for optical coating without breaking vacuum. The system can also use the chamber independently, each with its own automatic sample loading and unloading.

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## NOC-4000 Dual Chamber Optical Coating System



**Load Lock and Automatic Transfer Between Chambers w/o Exposure to Atmosphere**



**Ion Beam Cleaning Chamber  
with Tilted Platen**



**Sputtering Chamber with Rotating,  
Heated and Biasable Platen**