

Ultra-100

Integrated Cleaner & Vapor Coater

Nanoimprint Solutions

Machines Masks Resists Processes

Nanonex

Engine for Nanotechnology™

Multifunctional Cleaning and Molecular Vapor Coating All with One Push of A Button.

Ultra-100 offers integrated cleaning and vapor coating with molecular layers for nanoimprint masks and substrates and many other applications, in a single chamber with one simple push of a button. Ultra-100 has vacuum, UV O-Zone cleaning, molecular vapor coating capabilities with single or multiple chemical vapors, fully automated process control, and a compact design for desktop operation.

Benefits

- Integrated Cleaning & Vapor Coating in One Single Operation
- Outstanding Coating Coverage and Uniformity
- Excellent Cleaning Capability
- Fits Different Sized Substrates from Small Pieces to Full Wafers (2", 3", 4", 6" or 8" OD, etc) and 8"×8" Plates
- Programmable Automatic Process Control
- Multiple Chemical Vapor Lines
- Desktop Design
- Cost Effective

Applications

- Nanoimprint Mask Treatment for Release
- Surface Adhesion Promotion Treatment
- All-Purpose UV O-Zone Cleaning
- Resist Stripping
- MEMS, NEMS Antistiction Coating
- Micro- and Nano-Fluidic Channel Surface Treatment
- UV Curing in Vacuum or Gas Environment



System Specifications

Dimensions

- Sample Size: Up to 8"×8" square substrate or plate
- Chamber Size: 10"×10"×5.75"
- Complete Unit Dimension: 27"×21"×8.75"

Gaslines, UV Ozone and Heating

- Vacuum: <100 mTorr
- Up to 4 Gas Ports for Molecular Vapor Deposition
- 2" Diameter Exhaust with 100 cfm Required
- UV Lamp Wavelength: 185, 254, 365, 436 nm
- UV Power: 250 W
- UV Intensity: >10 mW/cm² at 254 nm
- Substrate Heater Power: 700 W

Typical Substrates

- Si and SiO₂
- GaAs
- Glass, Quartz, Fused Silica
- Metals
- Ceramics

Other Important Features

- Automatic Process Control
- Programmable by Users
- Chamber Door Lock and Safety Interlock
- Heated Coating Material Cartridge
- Easy-to-Replace Cartridge
- Heated Substrate
- Multi-Chamber Upgrade Available

LEARN MORE AT

<http://www.nanonex.com>

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The specifications may be updated without notice.