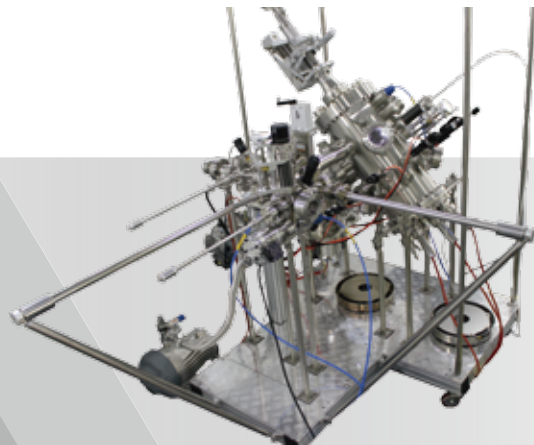


Full Size MBE-400 System



Specification

Chamber	Made from SS316 fully UHV compatible
Pumps	Standard: Edwards STP 1003 Mag-Lev Turbo Pump with nXDS 10i Dry Pump Optional: TSP, LN2 Trap, Ion Pump, NEG Pump, 2nd stage Turbo Pump
Base Pressure	$< 5 \times 10^{-10}$ mbar
Manipulator	X/Y(± 8 mm), Z(150mm), $\theta(\pm 180^\circ)$ Temperature Range: Liquid Nitrogen Cooling Module, 150~1200K
QCM	Single/Double Head Sensor, with 150mm Linear Shift
RHEED	15 KeV RHEED& Phosphor Screen;Data acquisition and Analysis
High Purity Ozone System	High purity Ozone source, up to 90% purity; capable to oxidize most material at 1E-6 mbar Ozone atmosphere; Max 16 g/hour Ozone generation capability and storage of 8g liquid Ozone (supporting up to 8 hours of growth process).
Evaporator Cells	Up to 16 Evaporators Temperature Range: up to 2000°C (with K-cells), up to 3000°C (with E-beam Evaporator) Pneumatic Shutters with Controller & Software
Gate Valve	VAT DN63CF UHV Manual Gate Valve
Other Accessories	Load Lock, Sample Transfer Arm, High Stability Chiller, Ion source (interconnectable with Radial Distribution System, LEED/ARPES/XPS/STM Systems)