

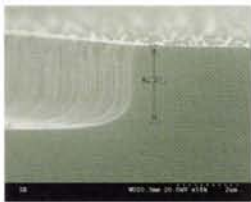
# RIE

## URS series



### Applications

- Silicon etching
- Dielectrics etching (SiO<sub>2</sub>, Si<sub>3</sub>N<sub>4</sub>, etc.)
- Polyimide etching



### Specifications

- Wafer size : 4inch, 6inch
- RF power : 600W, 13.56MHz, Auto-matching type
- loadlock chamber : Stand-alone type(option : Robot type)
- Ultimate pressure
  - Process chamber :  $\leq 3 \times 10^{-3}$ Torr (option :  $\leq 5 \times 10^{-6}$ Torr)
  - Loadlock chamber :  $\leq 3 \times 10^{-3}$ Torr
- Vacuum pump
  - Process chamber : Rotary pump (option : TMP + Rotary pump)
  - Loadlock chamber : Rotary pump
- Process control : Auto process control
- Dimension
  - Main system : 650mm(W) × 1680mm(D) × 1600mm(H)
  - Control rack : 620mm(W) × 700mm(D) × 1740mm(H)





Technology innovation  
with advanced technology  
We creat the future

*Hightech Solution Corporation*

# ULTECH Co.,Ltd.

## E vaporator

- Organic materials coating (OLED)
- Optical coating of rotational symmetry mirrors such as polygon mirrors
- Conventional materials coating
- Spintronix research (UHV & ultra low temperature system)



## P lasma Immersion Ion Implanter (PIII)

- Ultra-shallow junction doping for sub-100nm CMOS
- Conformal doping of non-planar CMOS and other electronic devices
- Poly-silicon gate & trench sidewall doping
- Active matrix doping (LCD,PDP,AMOLED)



## V ertical or horizontal type Furnace/LPCVD

- Low stress / Stoichiometric silicon nitride LPCVD
- Poly / Doped poly silicon LPCVD
- Silicon oxide LPCVD
- Wet / Dry oxidation
- Annealing
- LTO



## S putter

- Magnetic thin films layer coating
- Opto-electronic films coating
- Industrial machinery & tools hard coating
- Conventional materials coating



## D ry etcher (ICP,RIE)

- Nano etching
- Compound etching
- Polymer etching
- Bulk silicon deep etching



*Major Product*

## R TP

- Thin Gate Oxidation(Low Pressure) (Nano device)
- Rapid Annealing(Atmospheric or Low Pressure)



## S pray & Spin coater

- Uniform coating of topography such as V-grooves and trenches
- Photo resist coating
- Spin-On-Glass
- Organic materials



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