



INVAX Technologies

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The INVAX ADVANTAGES

Coating advantage

- Superior Heat Transfer
- Proprietary ceramic coating thin Dielectric
- Minimum thermal resistance
- High Dielectric Strength
- Suitable for HDP and High Bias applications.
- Low Voltage operation
- Inexpensive easy to integrate power supply
- Quick release
- No de-chucking recipes necessary
- Coulomb type dielectric
- No current through wafer, no device damage
- Rugged
- Tough ceramic coating, not damaged by particles.
- Surface may be cleaned with in-situ plasma or abrasively to remove polymer and other deposits
- Wide range of operating temperatures
- Unlike doped ceramic dielectrics, performance of INVAX ESC does not degrade due to elevated temperature or number of chucking cycles.

Applications advantage

Wide base of installed applications

- Plasma Etch
- Oxide
- Poly
- Metal
- Plasma CVD
- Copper processes (seed & barrier layers)
- e-beam
- Lithography
- Inspection
- EUV Lithography
- Flat Panel Displays
- Magnetic Media

Specifications advantage

Wide range of specifications:

- Flatness to .000005 inch
- Resistivity to 1T ohm
- Temperature to 325 C
- Chucking force to greater than 50 torr

Substrates advantage

Wide variety of substrates chucked:

- Silicon
- GaAs
- AITiC
- ULE & TFT Glass
- Si w/ thick nitride/oxide
- Saphire

Total Solutions advantage

Total Solution Options

- Built-in Embedded Heater
- Built-in Design in lifters
- Built-in Wafer temperature measurement
- Power Supply with RF isolation and wafer sense

Guarantee advantage

- Cost of ownership reduced by at least 50% Guaranteed
- Lifetime 150,000 to 300,000 wafers. (depending upon application)

Replacement advantage

Drop in replacements for LRC, AMT & TEL etchers.

- Longer life by a factor of two to 10
- Lower particles
- In-situ cleaning with cleaning plasmas or abrasives
- Improved center to edge temperature uniformity
- Lower cost of ownership
- Local stock
- Reliable repeatable chucking and dechucking

Support advantage

International offices

- Local support
- Local stock

We don't make process equipmentwe just make them process better.