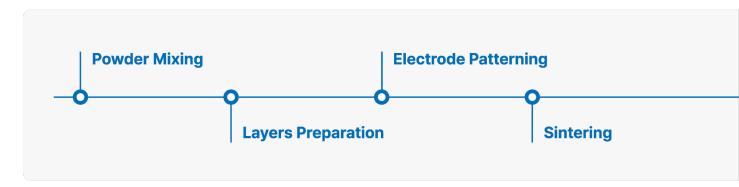
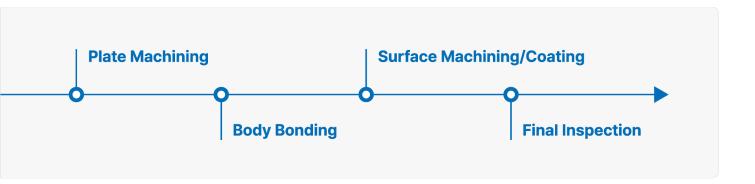
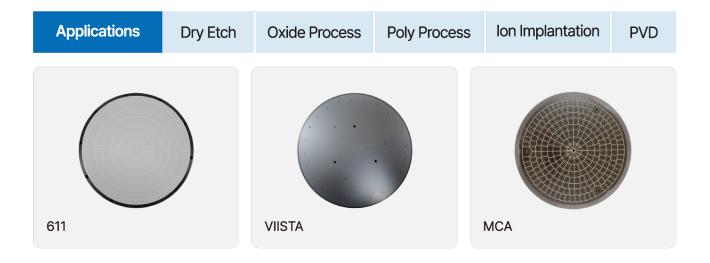
Electrostatic Chuck

Electrostatic Chucks are key components that use electrostatic force to secure the wafer in place and built-in heat circuits to control process temperature and provide temperature uniformity. These units provide high precision in electrostatic fixation and excellent plasma resistance.

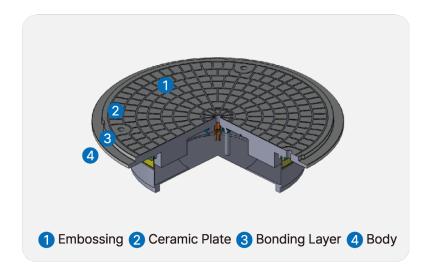
Manufacturing Process Flow







Manufacturing Specifications



Sizes

200mm, 300mm

Chucking Types

Coulomb, Johnsen-Rahbek

Plate Sintering

Hot Press, Multi-Layer Ceramic

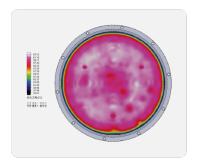
Materials

AIN, Al₂O₃

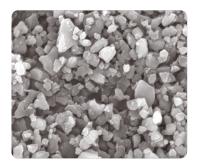
Heater Types

Normal Zone, Multi Zone

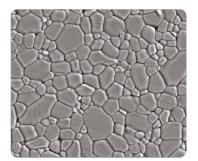




Materials



Sintering



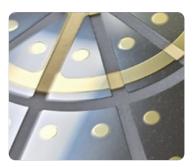
Machining



Bonding



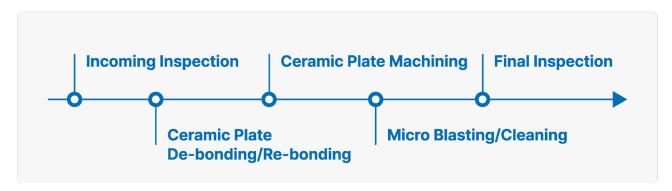
Emboss Machining



Refurbishment Services

With technology to de-bond and re-bond the electrode plate and heater, we provide cleaning, repairing, and manufacturing services to meet the needs of our clients.

Manufacturing Process Flow



Inspection Criteria



- ✓ Ultrasonic inspection of ceramic plate and heater
- ☑ Dimensional inspection of surface flatness, step height, thickness
- Roughness inspection of ceramic plate
- ☑ Electrical inspection of current leakage, chucking, withstanding voltage
- ✓ Leakage inspection of bonding layer
- ▼ Thermal inspection of temperature profile

Repair Service Outline



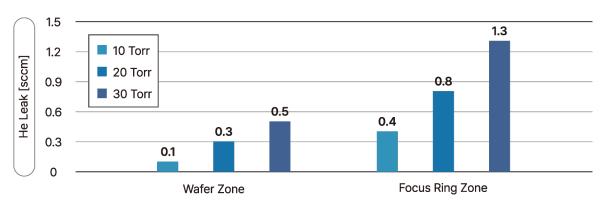
Repair Level	Description
Level 1	Surface Reconditioning
Level 2	Bonding Layer Reconditioning
Level 3	Ceramic Plate Replacement
Level 4	Heater Replacement

New Product Development

VIGUS(RK4, RK5) ESC 300mm



He Leakage by He Pressure



Chucking/Dechucking Force @ Vacuum Chamber

