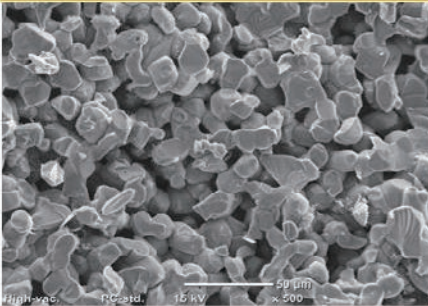


Permeable Ceramic Pore Size and Dimension Specifications

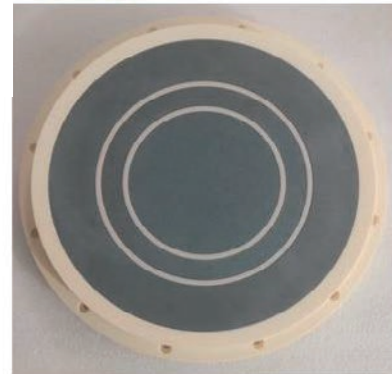
Ceramic Sintering Technology

By designing ceramic material specifications to achieve innovation in ceramic material formulations and production processes, we attain the 'pore diameter' and 'permeability' under free control.



Ceramic Porous Vertical ESD Holder Porous material with excellent cooling effect.

- High uniformity in pore size, permeability, and hardness.
- Semiconductor packaging grade.
- In-house sintering technology and production.



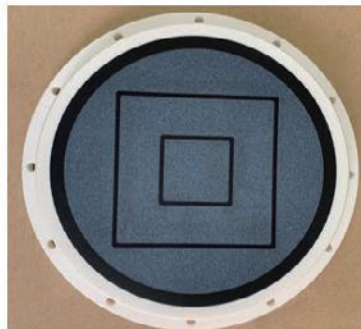
Advantages of Ceramic Suction Cups

1. Anti-static



Excellent Electrostatic Discharge Diffusion, Optimization of Anti-Static Materials

2. Partial area adhesion



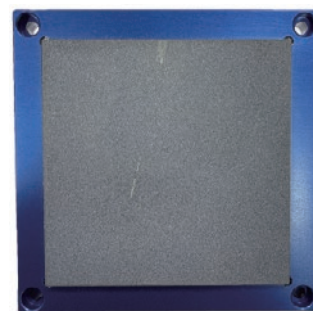
Apertures of 2um, 5um, and 10um, capable of withstanding vacuum without damage and accommodating objects of various sizes.

3. Even Distribution of Adhesion Force



Will not cause depressions in the workpiece surface. Suitable for high flatness requirements, such as thin film and thin material processing. Can accommodate workpieces smaller than 50um.

Diverse Ceramic Suction Cup Designs



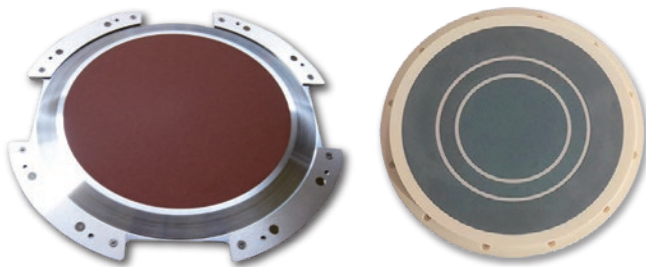
Offering a Variety of High-Precision and High-Stability Ceramic Components

Professional Manufacturing and Processing Experience with Customized Services

Ceramic Vacuum Suction Cup

- Aluminum Oxide (Al_2O_3): Used in high-strength environments.
- Silicon Carbide (SiC): Used in high-wear and high-temperature environments.
- Aluminum Nitride (AlN): Used in high thermal conductivity environments.
- Zirconia (ZrO_2): Used in high toughness and wear-resistant applications.
- Silicon Nitride (Si_3N_4): Used in applications requiring voltage resistance and high-temperature environments.

Other ceramic materials, such as boron carbide, boron nitride, zirconium oxide, silicon nitride, and porous breathable ceramics, among other ceramic materials.



Service Advantages

- Offering customers a variety of material options.
- Offering design and modification services.
- Localized production of materials and processing components.
- All modifications to externally produced materials are maintained in-house to safeguard customer confidentiality.

Ceramic Arm

- Vacuum Groove Design: "Metal Bonding", "Ceramic Bonding", and "Monolithic Formation" options available based on customer requirements.
- Material Selection: "Alumina", "Silicon Carbide", and "Antistatic Ceramic" options available based on customer requirements.
- Special Requests: Options include "Surface Anti-Adhesive", "Surface Electrostatic Dissipation", "Low Thermal Expansion", and other special requirements.



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Porous Ceramic Vacuum Module

Product features:

1. Allowing to be partially sucked, there is no need to cover the entire object.
2. In place of using a vacuum table, it is interchangeable.
3. High-precision machining process, the flatness of a surface is being level.
4. High-density porous ceramic layer, suction force spreads evenly.
5. It will not result in the phenomenon of concave on membrane surface.
6. High levels of insulation properties, it prevents workpiece from storing electrostatic charge.

Featured applications:

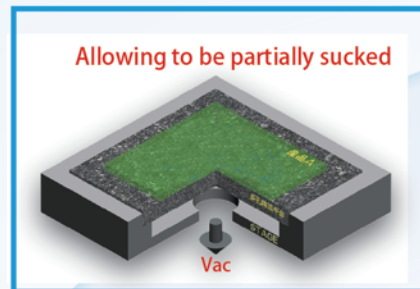
1. Semiconductor wafer suction cup, microchip equipment industry.
2. TFT-LCD、LED、coating equipment industry.
3. PCB equipment industry.
4. Mask aligner、glass cutting machine、air floating transport of glass substrate.
5. Robotic arm with vacuum grippers for transport.

Ceramic properties:

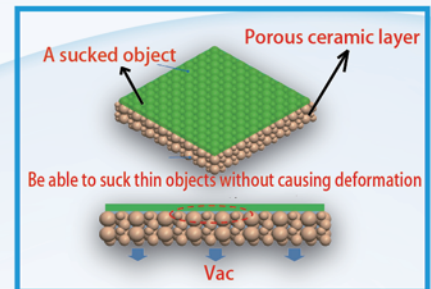
1. Zero friction.
2. Zero consumption.
3. High accuracy surface.
4. High levels of insulation properties.

Products specifications:

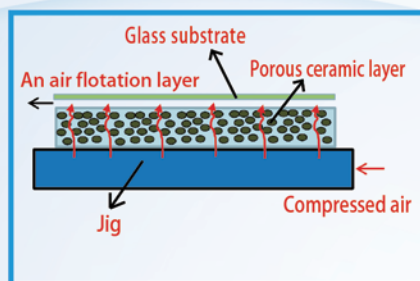
Items	Specifications
Ceramic aperture	2um/15um/30um/50um/100um
Aperture tolerance	40%
Flatness	5um~0.02mm (According to customers)
Colors	Black / black-gray



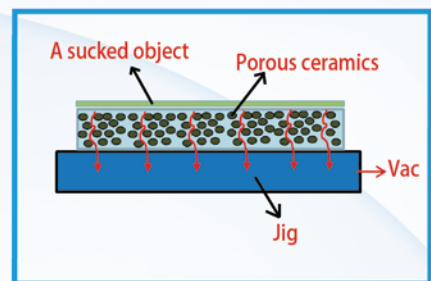
Dissection drawing



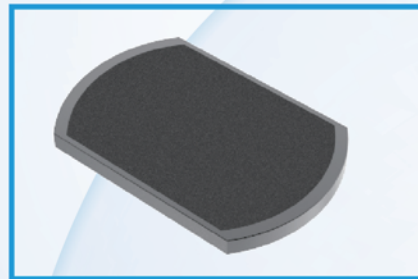
Schematic diagram



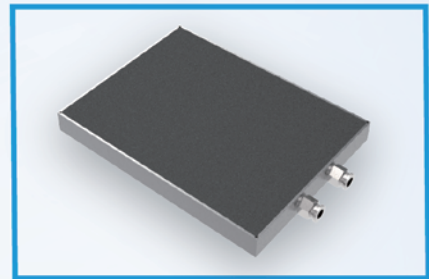
Air flotation schematic diagram



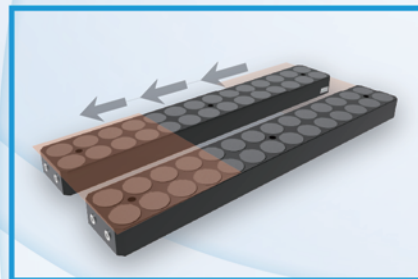
Vacuum schematic diagram



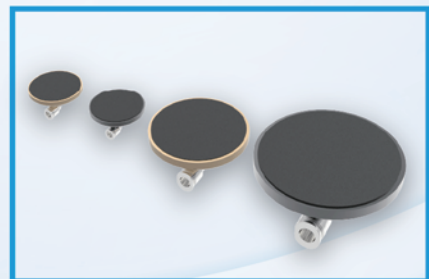
A bulged rectangle porous ceramic vacuum module



A rectangle porous ceramic vacuum module



Air floating platform modules



Ceramic vacuum micro-grippers

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