

Precision Alumina Ceramic Components for Pressure Sensor Applications

OEM Manufacturing Partner
for Ceramic Housings and Structural Components



High Precision



Excellent Reliability



High Temperature Stability



Superior Electrical Insulation



Custom Design Support



Tight Tolerance Control



Prototype to Mass Production



Consistent Quality Assurance



ISO 9001
Certified



Advanced
Manufacturing



Custom
Solutions



Trusted OEM
Partner

About JINGHUI

OEM Manufacturing Partner

Since 2008

- **Advanced Ceramic Component Manufacturer**

JINGHUI specializes in precision alumina ceramic components for pressure sensor and industrial applications. We provide OEM manufacturing solutions covering ceramic forming, sintering, precision machining and quality control, supporting customers from prototype development to volume production.

- **Manufacturing Capabilities Overview**

Our integrated manufacturing capabilities enable us to produce high-precision alumina ceramic components with consistent quality for demanding OEM applications.

Item	Capability
Primary Material	95%–99.6% Alumina (Other advanced ceramics available upon request)
Forming	Hot Pressing • Dry Pressing • CIP • CIM
Sintering	High-temperature Sintering
Precision Machining	Grinding • Lapping • Polishing
Inspection	Dimensional & Appearance Inspection
Customization	OEM Manufacturing Based on Drawings

Who We Support

Supporting OEM customers across the pressure sensor supply chain

> Pressure Sensor Manufacturers

Typical Needs

- Precision ceramic housings
- Structural ceramic components
- Stable mass production

> Pressure Sensor Module Manufacturers

Typical Needs

- Custom alumina ceramic parts
- Tight tolerance machining
- Drawing-based manufacturing

> Industrial Sensor OEMs

Typical Needs

- Customized ceramic structural components
- Prototype to production support
- Long-term supply

> Engineering & R&D Teams

Typical Needs

- Material selection
- DFM support
- Prototype development

Whether you are developing a new pressure sensor or scaling an existing product, JINGHUI provides precision alumina ceramic components and engineering support from prototype to volume production.

Where JINGHUI Fits in Your Supply Chain

Pressure sensor manufacturers and system partners are responsible for sensor design, sensing elements, electronics integration, calibration and final assembly.

JINGHUI focuses on precision alumina ceramic components, providing ceramic housing and structural parts for pressure sensor assemblies.

By supplying customized ceramic components with controlled geometry and surface quality, JINGHUI supports reliable sensor assembly and OEM production.

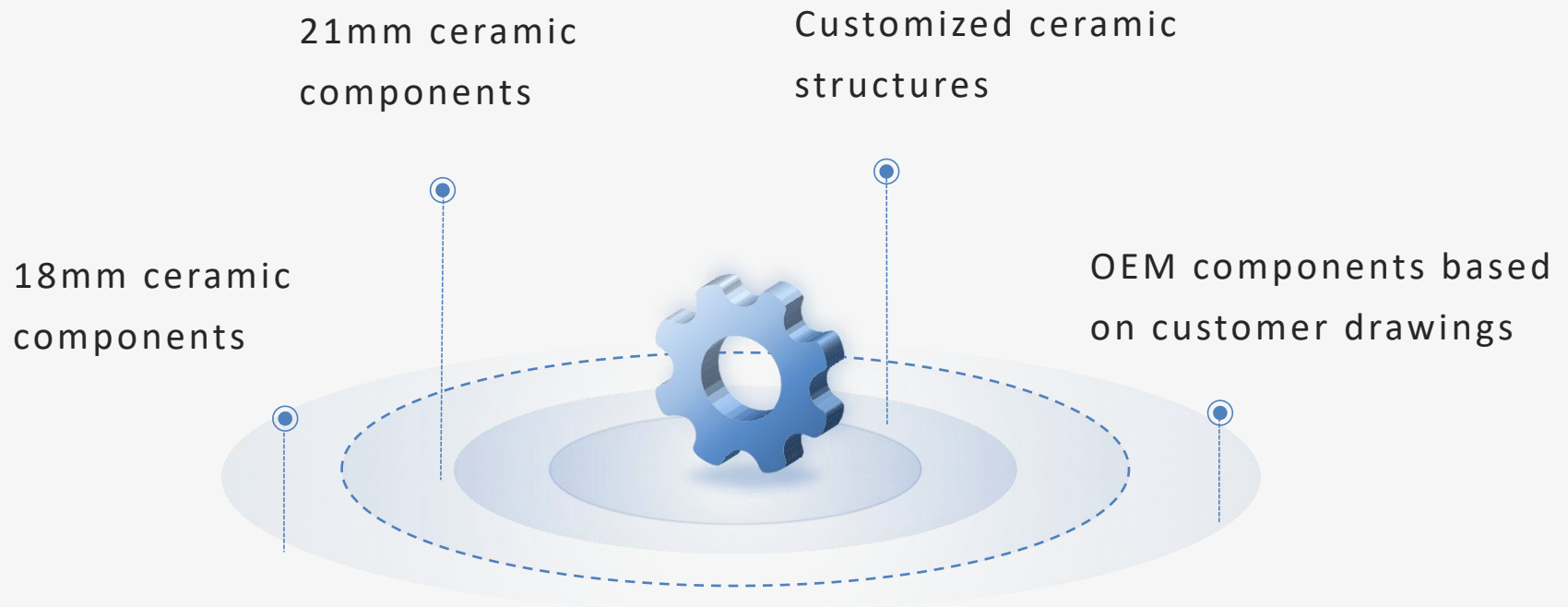
Why Alumina Ceramic for Sensor Components

96% alumina ceramic provides high mechanical strength and structural stability for demanding industrial applications.



Property	Benefit
Electrical insulation	Reliable sensor isolation
Chemical resistance	Suitable for harsh media
High mechanical strength	Structural reliability
Thermal stability	Stable performance
Dimensional stability	Consistent assembly accuracy

Ceramic Components We Manufacture



JGCC-12-0221 Alumina Ceramic Housing Component

- **Material:** 96% Alumina
- **OD:** 18 mm
- **Height:** 2.8 mm
- **Hole:** 3
- **Potential Application:** 18mm flush ceramic housing component for pressure sensor assemblies



JGCC-12-0222 Alumina Ceramic Housing Component

- **Material:** 96% Alumina
- **OD:** 18 mm
- **Height:** 6.35 mm
- **Hole diameter:** 10.36 mm
- **Hole depth:** 6.1 mm
- **Potential Application:** Monolithic ceramic structural component for pressure sensor assemblies



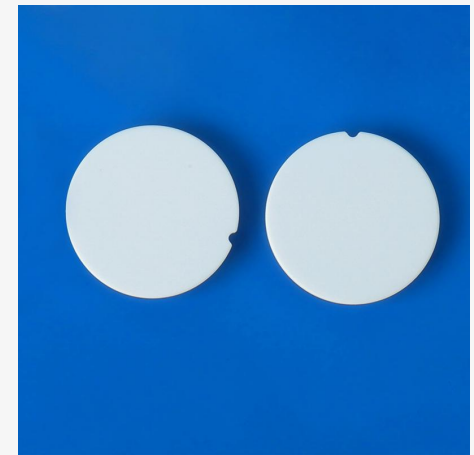
JGCC-12-0223 Alumina Ceramic Structural Component

- **Material:** 96% Alumina
- **OD:** 18 mm
- **Height:** 6 mm
- **Hole:** 6
- **Potential Application:** Ceramic structural component for pressure sensor assemblies



JGCC-12-0224 Ceramic Housing Support Component

- **Material:** 96% Alumina
- **OD:** 21 mm
- **Height:** 0.8 mm
- **Potential Application:** Thin ceramic structural component



JGCC-12-0225 Ceramic Component

- **Material:** 96% Alumina
- **OD:** 21 mm
- **Height:** 3.8 mm
- **Hole:** 3
- **Potential Application:** Precision ceramic structural component



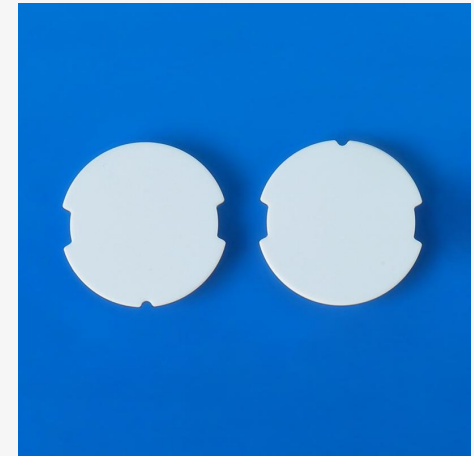
JGCC-12-0226 Customized Ceramic Component

- **Material:** 96% Alumina
- **OD:** 21 mm
- **Height:** 3.8 mm
- **Hole:** 3 with catch groove
- **Potential Application:** Custom ceramic housing structure for sensor applications



JGCC-12-0227 Customized Ceramic Structure

- **Material:** 96% Alumina
 - **OD:** 21 mm
 - **Height:** 0.55 mm
- Customized according to customer requirements
- **Potential Application:** Customized ceramic structural component for sensor applications



JGCC-12-0228 Ceramic Component

- **Material:** 96% Alumina
 - **OD:** 20 mm
 - **Height:** 3.8 mm
 - **Hole:** 3
- Potential Application:** Ceramic component for Pressure sensor assemblies



Ceramic Manufacturing Process

Raw material preparation

Sintering

Surface finishing

Delivery

Forming

Precision machining

Inspection



Sintering kiln



CNC machining



Double surface
lapping machine



Auto-inspection
equipment

Precision Control

- Surface roughness: $Ra \leq 0.4 \mu m$
- Flatness & parallelism: $\leq 0.02 mm$
- Dimensional tolerance: $\pm 0.05 mm$

Quality Control for Ceramic Components



01

Incoming Material Control

- Raw material verification
- Material consistency control



02

In-process Inspection

- Critical dimension inspection
- Surface quality inspection
- Process control at key production stages



03

Final Inspection

- 100% visual inspection
- Dimensional verification before shipment
- Batch consistency verification

Every batch is inspected to ensure dimensional accuracy, appearance consistency and reliable OEM quality.

Custom Development Process

1 Customer drawing / requirement

2 Technical review
(material + structure + process)

3 Prototype manufacturing

4 Dimensional & performance
validation

5 Mass production

6 Continuous supply

From concept to mass production, JINGHUI provides a structured development process to ensure quality and delivery.



How We Work with Pressure Sensor Manufacturers

Supporting Your Project from Prototype to Production

Engineering Support

- ✓ Drawing Review
- ✓ Material Recommendation
- ✓ Manufacturing Feasibility Analysis
- ✓ Tolerance Optimization

Quality Support

- ✓ Dimensional Inspection
- ✓ Process Control
- ✓ Batch Consistency
- ✓ Traceability

Manufacturing Support

- ✓ Prototype Manufacturing
- ✓ Small-batch Production
- ✓ Mass Production
- ✓ Stable Long-term Supply

Communication Support

- ✓ Fast Technical Response
- ✓ Engineering Collaboration
- ✓ Project Follow-up

Why Pressure Sensor Manufacturers Choose JINGHUI



Ceramic Component Focus

Dedicated to precision alumina ceramic components, allowing focused process control and manufacturing expertise.



Engineering Collaboration

Close collaboration between engineering and production teams to accelerate development and reduce project risks.



Quality Consistency

Controlled material, machining and inspection processes support reliable OEM supply.



Application Understanding

Familiar with ceramic requirements in pressure sensor housing and structural applications.

More than a ceramic parts supplier—we are your engineering and manufacturing partner for precision alumina ceramic components.

- Precision Alumina Ceramic Components Supplier

We support OEM projects from prototype development to mass production, delivering precision alumina ceramic components for pressure sensor applications worldwide.

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