

Top O Ring Manufacturer: Zhejiang Jiacheng Advances High-Performance Sealing Solutions

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As industrial equipment manufacturers continue to demand reliable sealing components for increasingly complex operating environments, ****Zhejiang Jiacheng New Material Co., Ltd.**** is strengthening its position in the global sealing industry. Founded in 1994, the company focuses on the research, development, production, and sales of specialized rubber seals, with an emphasis on professional sealing technologies. Its product portfolio includes ****[X Ring Quad Ring](#)**** and ****ED Seal Ring****, alongside a broader range of O-rings and customized sealing products designed for industrial applications. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

O-Rings Remain Essential Components Across Modern Industry

Although relatively small in size, O-rings perform a critical function in countless mechanical systems. These circular sealing elements are generally installed in a groove and compressed between mating surfaces, creating a barrier that helps prevent the leakage of liquids or gases.

O-rings can be found across a wide range of industries, including automotive manufacturing, hydraulic and pneumatic equipment, industrial machinery, electronics, medical equipment, food and beverage processing, oil and gas, and other specialized applications. Their relatively simple structure, combined with the availability of different elastomer materials, allows them to be adapted to numerous working conditions.

As industrial systems become more sophisticated, sealing requirements have also become more demanding. Temperature, pressure, chemical exposure, friction, movement, and installation conditions can all affect seal performance. Consequently, choosing an appropriate sealing product and material has become an important part of equipment design and maintenance.

This environment has created continued opportunities for specialized [O Ring](#) manufacturers capable of providing both standardized and customized solutions.

Zhejiang Jiacheng Builds on Decades of Sealing Experience

Zhejiang Jiacheng New Material Co., Ltd. has been active in the rubber sealing field since 1994. According to company information, the business has developed its capabilities around research

and development, production, and sales of specialized rubber seals. Over the years, it has expanded its manufacturing and research infrastructure while developing expertise in sealing applications. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

The company, also known as SJK, produces O-rings, ED rings, rubber gaskets, rubber strips, and other sealing products. Its product range covers multiple material options and application requirements, enabling the manufacturer to serve customers seeking both standard components and customized sealing solutions. ([Zhejiang Jiacheng New Material Co., Ltd.][2])

This specialization is particularly relevant in a market where customers increasingly expect suppliers to understand the relationship between seal material, geometry, operating conditions, and application requirements.

X Ring Quad Ring for Dynamic Sealing Applications

One of the products offered by Zhejiang Jiacheng New Material Co., Ltd. is the ****X Ring Quad Ring****. Unlike a conventional O-ring with a circular cross-section, a quad ring incorporates an X-shaped cross-section designed for specific sealing requirements.

According to the company's product information, Quad Rings are widely used for dynamic sealing applications, including reciprocating, shaft-swinging, rotating, and helical-motion sealing. ([Zhejiang Jiacheng New Material Co., Ltd.][2])

Dynamic sealing applications can present more complicated challenges than static sealing. Components may move repeatedly while the seal must continue to maintain an effective barrier. Friction, wear, pressure changes, and movement characteristics can all influence performance.

The X Ring Quad Ring format provides manufacturers and equipment designers with another sealing option when a conventional O-ring configuration may not be the preferred choice. Its geometry can be considered for applications where movement and sealing reliability need to be evaluated together.

For industrial customers, having access to different sealing geometries allows engineers to select components according to the actual operating conditions of their equipment.

ED Seal Ring for Hydraulic and Pneumatic Connections

Another product in the company's portfolio is the ****ED Seal Ring****, a sealing component designed for connection applications. Zhejiang Jiacheng's product information states that ED Seal Rings are widely used in pneumatic and hydraulic joints, including pipe joints, hydraulic plugs, and transition joints. ([Zhejiang Jiacheng New Material Co., Ltd.][2])

Hydraulic and pneumatic systems depend heavily on effective sealing. Even a small leak can

reduce system efficiency, create maintenance requirements, or affect equipment operation. Sealing components used in these systems therefore need to be selected according to factors such as pressure, fluid compatibility, temperature, connection structure, and installation conditions.

The ED Seal Ring provides a specialized option for these connection environments. By offering different sealing products for different applications, Zhejiang Jiacheng New Material Co., Ltd. is able to address a wider range of requirements within industrial fluid-power systems.

Material Selection Is Central to Seal Performance

For O-rings and other elastomeric seals, material selection is one of the most important considerations. Different elastomers offer different combinations of temperature resistance, chemical compatibility, elasticity, hardness, compression characteristics, and wear resistance.

Zhejiang Jiacheng's O-ring portfolio includes materials such as NBR, FKM, EPDM, silicone, fluorosilicone, FEPM, PTFE, and FFKM, depending on the product and application. The company also offers standard and customized O-ring sizes. ([Zhejiang Jiacheng New Material Co., Ltd.][3])

FKM, for example, is commonly considered when chemical and temperature resistance are important. NBR can be suitable for many applications involving oils and lubricants, while EPDM is commonly selected for applications where resistance to water, weathering, and certain chemicals is required.

Because operating conditions vary significantly, no single sealing material is suitable for every application. Professional seal manufacturers therefore need to provide customers with choices that correspond to their equipment requirements.

Customization Supports Specialized Equipment

Industrial machinery is rarely designed around a single universal specification. Equipment manufacturers may require sealing components with specific dimensions, materials, hardness levels, cross-sections, or performance characteristics.

For this reason, customization has become an important capability within the sealing industry. Zhejiang Jiacheng New Material Co., Ltd. states that it has experience in seal mold development and can undertake the design and manufacture of special and complex seals to meet customized requirements. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

The company's O-ring information also indicates that both standard and customized sizes are available. Standard specifications include commonly used systems such as AS568, JIS B 2401, and DIN 3771. ([Zhejiang Jiacheng New Material Co., Ltd.][3])

Such flexibility can be valuable to OEMs and industrial equipment manufacturers that need sealing components integrated into specialized machinery rather than simply purchasing generic replacement parts.

Quality Management and Manufacturing Capabilities

Consistency is particularly important for sealing products. Small differences in dimensions, hardness, surface condition, or material formulation can influence installation and sealing performance.

Zhejiang Jiacheng New Material Co., Ltd. reports that it has more than 100 sets of production and testing equipment, professional experimental facilities, and an ERP management system. The company also states that it obtained IATF 16949 quality management system certification in 2019. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

The company has continued investing in research and development infrastructure. Its development history indicates that a dedicated R&D center was put into use in 2024 and received recognition as a Zhejiang Provincial R&D Center. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

These capabilities reflect the increasingly technical nature of the modern sealing industry, where product development, testing, manufacturing control, and application knowledge are closely connected.

Serving a Broad Range of Industrial Applications

O-rings and related sealing products are used throughout numerous industries because leakage prevention is fundamental to many mechanical systems.

In automotive applications, seals can be used around fluid systems, engines, hydraulic components, and other assemblies. Industrial machinery can require sealing components in pumps, valves, cylinders, fittings, and rotating equipment. Hydraulic and pneumatic systems depend on seals to maintain pressure and prevent fluid or air leakage.

Other industries, including electronics, medical equipment, food and beverage processing, and chemical processing, may require specialized materials or production environments. Zhejiang Jiacheng's broad product and material portfolio enables it to participate in these diverse markets. ([Zhejiang Jiacheng New Material Co., Ltd.][3])

This diversity also highlights why sealing manufacturers must understand more than the basic dimensions of an O-ring. Application conditions ultimately determine which material and sealing configuration are appropriate.

International Market Development

The sealing industry has become increasingly global as equipment manufacturers source components from international suppliers. For manufacturers, serving overseas customers requires not only production capabilities but also effective communication, product documentation, logistics coordination, and an understanding of different market requirements.

Zhejiang Jiacheng New Material Co., Ltd. reports that its sales network covers Europe, America, the Middle East, Southeast Asia, and other regions. The company has stated an objective of developing its SJK brand into an internationally recognized sealing brand. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

Its international presence provides opportunities to work with customers across different industrial sectors while gaining insight into varied sealing requirements.

Looking Ahead for the O-Ring Industry

As machinery becomes more compact, automated, and performance-oriented, sealing components will continue to play an important role in equipment reliability. Manufacturers are likely to face increasing demand for seals capable of operating under challenging combinations of pressure, temperature, chemical exposure, and mechanical movement.

At the same time, customization is expected to remain an important trend. OEMs increasingly require components tailored to their equipment rather than relying exclusively on standardized parts.

For specialized manufacturers, this creates opportunities to combine material expertise, mold development, precision manufacturing, testing, and application support. Zhejiang Jiacheng New Material Co., Ltd. is developing within this environment through its range of O-rings and specialized sealing products, including X Ring Quad Ring and ED Seal Ring.

The company's continued investment in research, production capabilities, and quality management demonstrates the broader direction of the professional sealing market: moving from basic commodity components toward application-focused sealing solutions.

About Zhejiang Jiacheng New Material Co., Ltd.

****Zhejiang Jiacheng New Material Co., Ltd.****, also known as SJK, is a specialized manufacturer of rubber sealing products with a history dating back to 1994. The company focuses on the research and development, production, and sales of specialized rubber seals and has developed capabilities in high-end sealing technologies. ([Zhejiang Jiacheng New Material Co., Ltd.][1])

Its product portfolio includes O-rings, ****X Ring Quad Ring****, ****ED Seal Ring****, rubber gaskets,

rubber strips, FEP-encapsulated O-rings, V-ring seals, and customized rubber sealing products. The company's O-ring offerings are available in a range of materials and standard or customized sizes, while its ED Seal Ring and Quad Ring products address specialized sealing applications. ([Zhejiang Jiacheng New Material Co., Ltd.][2])

The company reports serving customers in Europe, America, the Middle East, Southeast Asia, and other international markets. With continued investment in research and development, production equipment, testing facilities, and quality management, Zhejiang Jiacheng New Material Co., Ltd. is working to expand its capabilities as a professional sealing manufacturer.

More information about Zhejiang Jiacheng New Material Co., Ltd., its O-ring products, and its specialized sealing solutions is available at [**\[www.sjkseal.com\]\(http://www.sjkseal.com\)](http://www.sjkseal.com)

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