

# Mechanical Seals



NINGBO DPM FLUID TECHNOLOGY CO., LTD  
A SEALS AND BEARINGS ENGINEERING COMPANY



## Company Profile

Ningbo DPM Fluid Technology Co., Ltd is a seals and bearings engineering company located in Zhejiang Ningbo, China. We design and manufacture different kinds of Silicon Carbide and Carbon Graphite material with extraordinary properties for multiple seal and bearing applications. We can also supply complete mechanical seals which are equivalent to John Crane, EargleBurgmann and AESSEAL.

We produce tailor-made mechanical seal faces, axial and radial bearings according to customers' drawing or samples in **ANY QUANTITY** with **SHORTEST** possible delivery time. And our mechanical seals are interchangeable to the seals from worldwide famous brands such as John Crane, EagleBurgmann, AESSEAL as well as EKATO agitator seals for most application conditions. Tailor-made mechanical seals according to customer provided drawing is also available with us.

We dedicate ourselves in developing and innovating new applications and better property for our mechanical seals, seal face materials and bearings, in order to offer our customers with better quality products and more professional services.

## Our seals and bearings specifications

Under the effect of friction and erosion where the mechanical systems components are exposed to, our tribologically superior materials with low density are essential to solve the critical problem which metals are not able to solve, they are ideal for mechanical seal face and sliding bearing applications. And we provide mechanical seals with premium quality, reliable technology, prompt delivery and much better price compare to brand seals.

## Our mechanical seals

### Single Spring Seal



It is the most common seal type for normal application conditions such as water pump with 1 single spring. Our single spring seals are equivalent to for example John Crane type 1/2/6 and Burgmann M2N/M3N.

### O-ring Pusher Seal



This kind of seal uses multiple springs to push thrust ring in order to provide the seal face with closing force and prevent O-ring from falling out. It can be designed as single seal and dual seal for different application conditions.

### Metal Bellow Seal



This kind of seal uses metal bellow with sealing ability to replace the ordinary springs. Our metal bellow seals are equivalent to John Crane type 603/606/609 and 670/676/680.

### Cartridge Seal



Cartridge seal is a kind of seal that uses a metal housing to retain the single seal or dual seal in order to make the installation, replacement of the seal much easier. And the housing also provides the chamber for seal flushing, and buffer liquid.

### Agitator Seal



The application of agitator usually requires the agitator seal to have higher pressure resistance, better anti-corrosion ability, and better wear resistance compare to pump application. Our agitator seals are able to replace the ESD seals with equally good function in EKATO agitators.

## Our materials

### Silicon Carbide

Availability with DPM: RB-SiC, S-SiC, S-SiC+C

Silicon Carbide is a kind of fine ceramic material with low density which offers many great mechanical properties in seals and bearings application.



#### Advantages:

1. Good self-lubrication ability.
2. Great anti-corrosion ability.
3. Exceptional wear resistance and abrasion resistance.
4. Low thermo expansion coefficient.
5. Excellent thermo conduction ability and high temperature resistance.
6. Good mechanical strength and extreme hardness.

#### Typical Applications:

1. Mechanical seal tribological faces operating in highly aggressive media.
2. Shaft and Mag drive pump bearings subject to high loads and extreme operating conditions.
3. Thrust bearings requiring exceptional wear resistance.

### Carbon Graphite

Availability with DPM: Resin-Impregnated Carbon, Metal-Impregnated Carbon

Carbon Graphite is a nonmetal material with excellent self-lubricant ability, which offers the material great advantage in seals and bearings application.



#### Advantages:

1. Good chemical resistance, depends on the impregnated resin or metal.
2. Excellent self lubricant ability.
3. Good thermo conductive ability.
4. Low thermo expansion rate.
5. Good thermo shock resistance.
6. Good temperature resistance for metal impregnated.
7. Good mechanical strength and easily machined to varies of shapes.

#### Typical Applications:

1. Mechanical seal tribological faces for a wide variety of sealing applications.
2. Cannon motor pump bearings.

## Our Seals and Bearings Products

### Mechanical seals rotary and stationary faces



### Axial and radial sliding bearings



### Complete mechanical seals and metal components



### Braided packings and packing rings

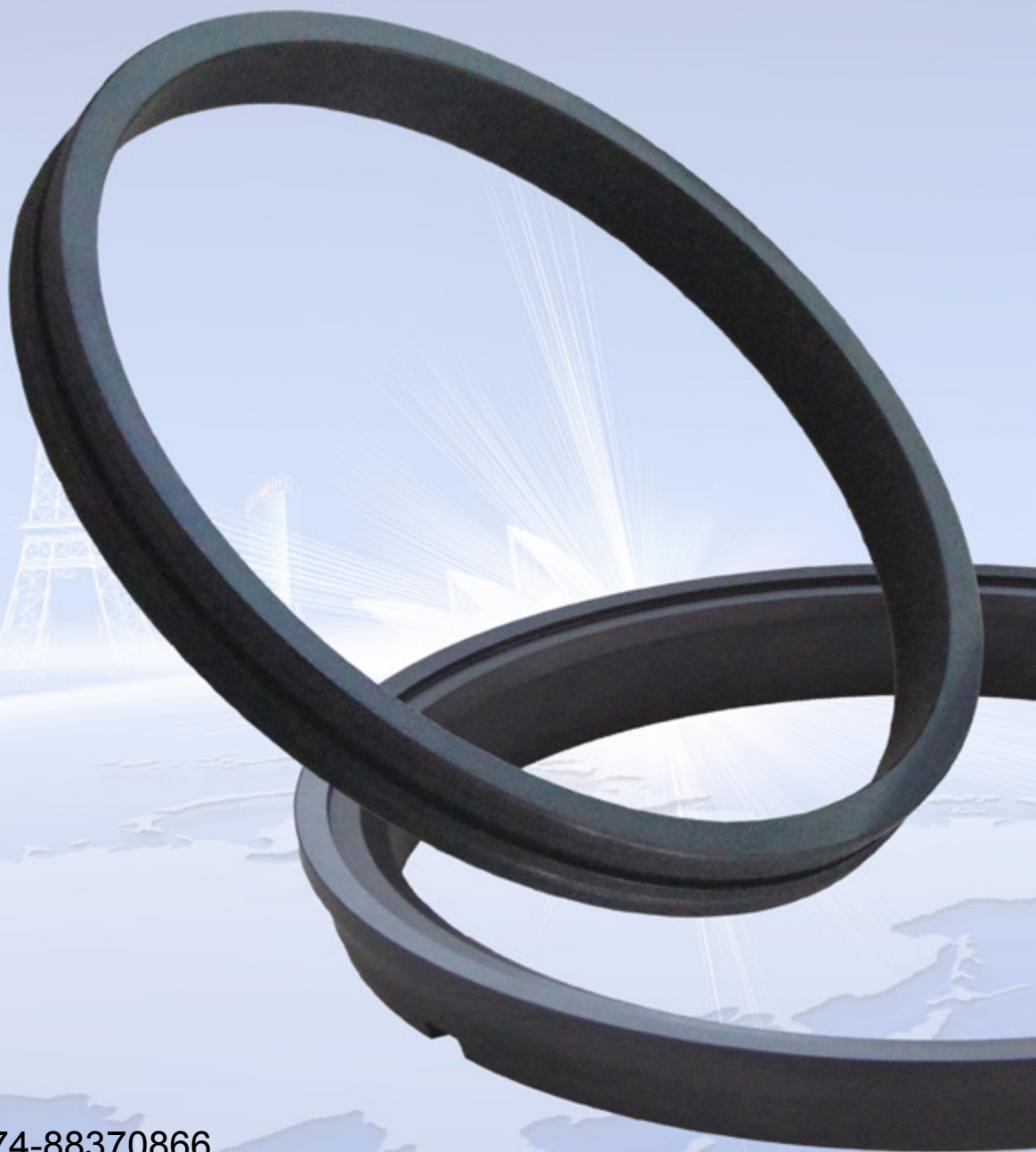


### Pumps for Chemical and Paper Industry





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