

Graphite Bearing With Self-lubrication

Graphite Bearing Product Introduction

Featuring superior self-lubricating performance, high temperature resistance and corrosion resistance, graphite bearings fully satisfy stringent sealing requirements for equipment operating in highly corrosive, flammable, explosive and radioactive media. They effectively resolve numerous operational challenges in chemical machinery, greatly optimize working conditions, and improve product quality and production efficiency. Our graphite bearings are widely applied in diverse equipment including various pumps, agitators, high-temperature and high-pressure dyeing machines, compressors, sealing rings for reactor mechanical seal components, oxygen generators, blower piston rings, shielded motors, submersible motors, precision instruments, fuel pumps, vacuum pumps, gas compressors, press air pumps, safety bursting discs for chemical devices, as well as panel boards and arc blocks for cigarette making machines. We maintain a comprehensive inventory of graphite bearings in multiple grades and standard sizes, and offer rapid custom part manufacturing services. Equipped with advanced CNC processing equipment, we fabricate graphite bearings in a wide range of customized shapes with a consistent precision tolerance of $\pm 0.02\text{mm}$.

Product Details

1. Our new solid mosaic self-lubricating graphite bearings integrate the structural advantages of metal bearings and excellent self-lubricating properties. Based on diverse mechanical operating conditions and service environments, high-performance solid lubricants are inlaid into precision-processed metal substrates, including steel sleeves, stainless steel, cast bronze and ductile iron. During operation, the metal substrate bears the majority of mechanical load, while the embedded solid lubricant forms a uniform, durable lubricating film through continuous transfer and anti-transfer lubrication. This significantly reduces component wear and ensures stable, long-term lubrication performance.
2. Eliminating the reliance on traditional oil-film lubrication, our graphite bearings deliver outstanding comprehensive performance, including high load-bearing capacity, excellent impact resistance, high temperature resistance, low friction coefficient, minimal wear, low noise, permanent self-lubrication and maintenance-free operation. They also feature superior acid corrosion resistance and water resistance. These unique properties make them particularly suitable for harsh working conditions characterized by heavy loads, high temperatures, low operating

speeds and difficult oil lubrication access. End users consistently verify that our graphite bearings offer a lower friction coefficient, longer service life and remarkable energy-saving effects.

3. Application Scope: Our graphite bearings are extensively used in mining, chemical, metallurgical, water conservancy, construction, electronics, textile, printing and dyeing, food processing and other industrial fields. They are commonly installed on forging damping equipment, steel bar processing machinery, injection molding machines, machine tools, turbines, steam turbines, elevators, cranes, power tools, packaging machines and various other mechanical equipment.

Product Name	Industry	Application
Crucible, Boat, Dish, etc.	Metallurgy	Melting, refining and analysis
Dies, Molds, Ingot Chassis, etc.		EDM graphite electrodes, semiconductor manufacturing, iron, steel and nonferrous metal making, continuous casting, metallurgy pressing machine
Graphite Roller, etc.		Heat treatment of steel plate in furnace
Conduit, Skateboard, etc.		Aluminum molding
Graphite Pipe		Guard pipe for measuring temperature, blowpipe, etc
Graphite Block		Masonry furnace and other heat resistance material
Chemical Equipment	Chemistry	Heat exchanger, reaction tower, distillation columns, absorption equipment, centrifugal pumps, etc
Electrolytic Plate		Salt solution and baking molten salt electrolyte
Electrolytic Mercury		NaCl electrolyte
Grounded Anode		Electrical anticorrosion
Motor Brush	Electricity	Commutator, slipping ring
Current Collector		Skate, slide, trolley
Contact		Switches, relays
Mercury Ferry And Electronic Pipe	Electronics	Anode, grid pole, repeller pole, ignition pole of the Mercury rectifier and anode, grid electrode
Graphite Bearing	Machinery	High temperature resistance sliding bearing
Sealing Element		Sealing ring, stuffing box seal, packing seal
Product Element		Braking in plane and vehicle

FAQ

1. When can I get the price?

We usually quote within 24 hours after getting your detailed requirements, like size, quantity etc. .

If it is an urgent order, you can call us directly.

2. Do you provide samples?

Yes, samples are available for test our quality.

Samples delivery time will be about 7-10 days.

3. What about the lead time for mass product?

The lead time is based on the quantity, production time about 7-12 days. For graphite product, apply Dual-use items license need about 45 working days.

4. What are your terms of delivery?

We accept FOB, CFR, CIF, EXW, etc. You can choose the most convenient way for you. Besides that, we can also ship by Air and Express.

5. Product packaging?

We are packed in customized wooden case, or according to your requirements.

Hope to cooperate with you, Thanks !