

High Density Vacuum Pump Carbon Vanes

Various Sizes & Shapes | Premium Brand Vacuum Pumps & Carbon Vane Advantages

We supply carbon vanes in a wide range of customized sizes and shapes, perfectly compatible with well-known brand vacuum pumps. Our high-performance carbon vanes feature superior comprehensive properties for long-term stable operation:

- Self-lubricating & dry-run capable
- Ultra-low wear rate for extended service life
- Low thermal expansion coefficient
- Excellent dimensional stability under varying temperatures
- Food and pharmaceutical grade compliant
- Superior thermal shock resistance
- High hardness and outstanding impact resistance
- Excellent structural strength and durability

Typical Applications

- Printing industry equipment
- Medical and healthcare equipment
- Laboratory environmental systems
- Packaging machinery
- Vacuum exhaust pumps
- Fuel delivery and transfer pumps
- Pond and water body aeration systems
- Vacuum forming and vacuum holding systems
- Breathing air supply equipment
- Oil burner air atomizing systems

Professional Usage Guidelines for Carbon Vanes

Standardized operation effectively avoids vane damage and prolongs the service life of vacuum pumps. Please follow the guidelines below:

Correct Motor Steering: For newly commissioned pumps, verify the motor rotation direction strictly. Long-term reverse operation will directly cause carbon vane damage.

Dust Environment Protection: Operating the pump in heavily dusty environments with incomplete air filtration will accelerate vane wear and shorten service life. Air filtration maintenance is essential for stable operation.

Humid Environment Maintenance: Wet working conditions may cause corrosion on vanes and rotor groove walls. Corroded vanes cannot pop out evenly during pump operation, resulting in unbalanced stress and structural damage. In this case, inspect and clean the vanes thoroughly before reuse.

Avoid Frequent Start-Stop: Frequent switching on and off increases the impact times of vane ejection, aggravates component loss and reduces vane lifespan. Minimize unnecessary start-stop operations during production.

Adopt High-Quality Vanes: Low-quality carbon vanes will degrade pump performance and even cause abrasion and damage to the cylinder inner wall. Always use qualified high-precision carbon vanes.

项目/Items		单位/Unit	技术指标/Specification
颗粒度/Grain Size		mm	0.045
体积密度/Bulk Density		g/cm3	1.95-2.2
电阻率/Resistivity		μΩ•m	13
抗折强度/Bending Strength		Mpa	45-55
抗压强度/Compressive Strength		Mpa	75-100
灰分/Ash		%	0.3-0.5
方形 Square	长/Length	mm	≤600
	宽/Width	mm	≤300
	高/Height	mm	2-6
产品尺寸也可按照订单要求加工			

Products can be processed as order requirement or drawings.

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 45working days.

4.What is 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 shipping by Air and Express.

5. Product packaging?

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

Hope to cooperation with you,Thanks !