

Graphite Rotor for Aluminum Degassing

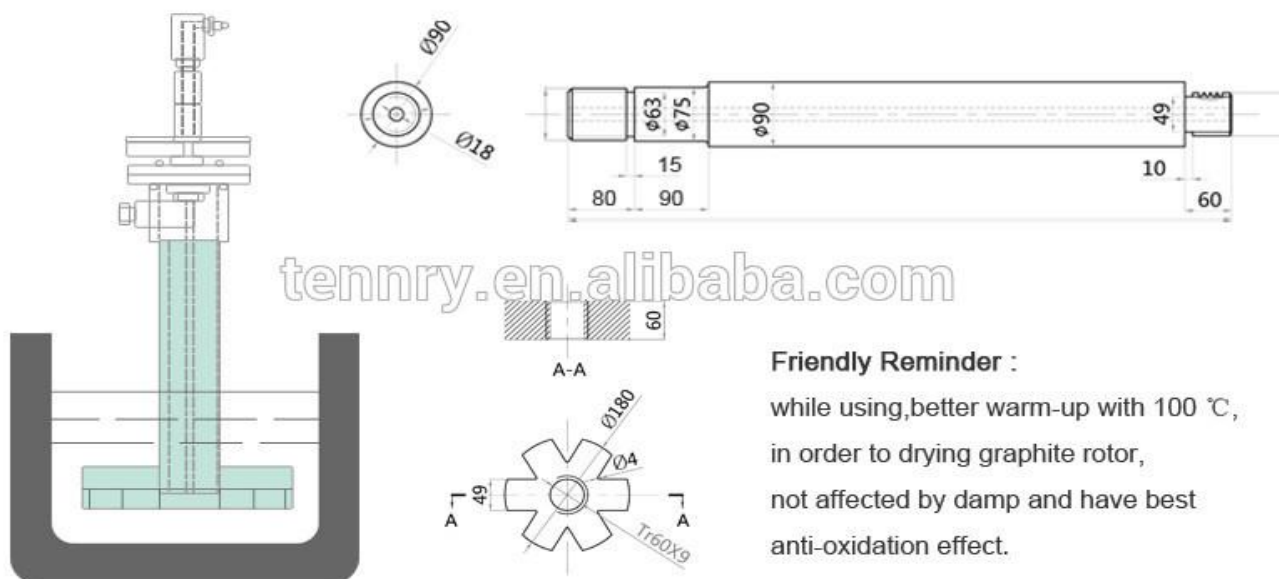
Product Description

Graphite rotors are specialized components fabricated from high- grade graphite, featuring outstanding high- temperature resistance, self- lubricating performance, exceptional chemical inertness and superior thermal- shock resistance. A graphite rotor mainly comprises a rotor head (impeller) and a rotor shaft. Driven by a transmission system, the rotor assembly rotates while argon or nitrogen is delivered into molten aluminum via internal channels through the shaft and rotor head. By high- speed rotation, the rotor shears inlet shielding gas into massive fine, dispersed bubbles. These bubbles absorb hydrogen gas and oxide inclusions from the melt, achieving effective purification of molten aluminum.

Anti- oxidation surface treatment can be provided per customer requirements. Custom production is available against customer- supplied drawings.

Application & Working Principle

Operating at temperatures up to 750 ° C, the graphite rotor vigorously agitates molten aluminum with continuous injection of argon or nitrogen. Rotational motion breaks the introduced gas into large quantities of micro- bubbles uniformly dispersed throughout the liquid aluminum. Meanwhile, rotation accelerates the diffusion of dissolved hydrogen and solid inclusions within the melt. Following gas partial- pressure difference and surface- adsorption principles, hydrogen and oxide slag are captured by the micro- bubbles. The contaminants float upwards together with bubbles to the melt surface for skimming, thus completing efficient purification of aluminum melt.



Advantages

- Zero impurity contamination to molten aluminum
- Superior high- temperature resistance to slow down oxidation rate
- Excellent self- lubricating performance
- Remarkable resistance against chemical corrosion
- High thermal conductivity and good thermal- shock stability
- High mechanical strength and impact resistance

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		Commutator, slipping ring
Current Collector	Electricity	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 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 !