

RT-0.5L Laboratory Horizontal Sand Mill



Application

Root Laboratory 0.5L horizontal sand mill is specially designed for dispersing and grinding of sub-micron, micron, sub-nano and nano grade material. The high efficient cooling system and fine-gap centrifugal separating system could avoid the block of material in separator and ensure a smooth product discharging. It is specially used in the lab formulation research and small batch production. The lab mill grinding result could be scaled up to the industrial production.

Technical Parameter

- Model: RT-0.5L
- Grinding Inner chamber material: Hard alloy
- Chamber Volume: Designed volume: 600ml Effective volume: 450ml

- Outer chamber material: 304 stainless steel
- Grinding rotor material: hard alloy
- Cooling mode: cooling water passing grinding chamber
- Cooling water pressure/flow rate: 0.2MPA, 0.8m³/h
- Mechanical sealing: Self design mech. seal
- Mechanical sealing support: stainless steel (304)
- Dispersing and grinding structure: Root patented self recycled grinding rotor
- Linear speed: 9.3 m/s
- Material transportation: Pneumatic diaphragm pump
- Separating mode: dynamic separation; no stuck and high efficiency
- Grinding Media: 95% zirconia beads
- Zirconia beads spec: ∅ 0.6mm- ∅ 1.4mm
- Filling quantity: 50%~90%
- Main shaft material: SUS304 with solution treatment
- Coating: solvent-proof coating. Root color: blue and white
- Inlet pipe: SS304
- Main power: 1.5KW Explosion proof motor
- Power supply: 220V/50HZ
- With outlet temperature meter
- Speed: 0~2840rpm
- Dimension: 450(L)X350(W)X350(H)
- Weight: 50KG