



Lab Large Flow Sand Mill

CDS-2 laboratory sand mill is a horizontal grinding machine with a horizontal grinding cylinder. It's a rotor pin grinding equipment which is suitable for superfine grinding material of solid-liquid two phase suspension. It is widely used in paint, printing ink, non-metallic mineral ultra-fine powder, dye, magnetic recording materials and the other industries and laboratory of college. It's necessary for laboratory superfine grinding and easy to use.

Working Principle

The main motor drive main shaft rotor through a V belt to achieve a high speed rotation. Then the disperse equipment (grinding rod) on the rotor will get a high speed movement to drive grinding medium to sufficiently disperse and grind materials with a powerful impact force, a frictional force and a shear force.

The machine adopts a precise and reliable mechanical seal which has a high reliability and durability. Fully closed grinding cylinder can avoid air entering, generation of air bubbles, solvent volatilization and reduce environmental pollution.



The machine adopts dynamic separator to separate grinding medium and grinding materials. Because it has a self-cleaning function, so the grinding medium will not be embedded in crevices which will increase the service life of equipment and expand the scope of application for high viscosity material.



Technical Specification

Model	CDS-2
Grinding chamber volume	2L
Motor power	3KW, 380V × 50HZ × 3P
Speed	0~2000rpm, control by frequency converter
Pump	1/2" diaphragm pump
Air compression	≥0.3Mpa
Grinding medium	pure zirconia beads Φ0.8~1mm or Φ0.6~0.8mm
Fineness of grind	0.5~10um
Overall dimension: (L×W×H)	850 × 680 × 750mm
Weight	100Kg



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