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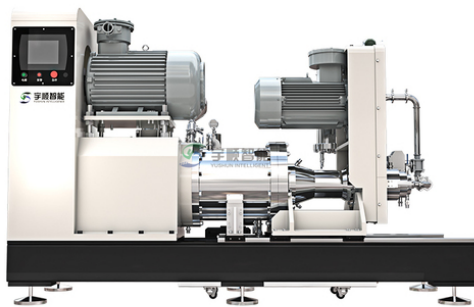
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## Double Power Centrifugal Grinder



Double power centrifugal grinding machine design concept:

1. The structure concept developed by the dual-power nanocentrifugal sand sanding machine is a dynamic rotating centrifugal sedimentation system, which addresses the needs of micron-submicron level particles for crushing to the nano level in recent years, and requires a stable narrow particle size distribution to ensure efficient production capacity. The principle is to convert the dynamic separator from the original grinding. Separated from the rotor, the grinding rotor and the dynamic separator system are independently driven and controlled by an independent drive device, so that the grinding fineness is more perfect, and the stable operation of the 0.05mm grinding medium can be maintained to ensure grinding stability;
2. The centrifugal rotating separation system is driven by an independent motor. When the machine is running, most of the grinding medium is due to the centrifugal force generated by the high-speed operation of the grinding system, which distributes the grinding medium throughout the grinding cavity to form a uniform grinding layer. The grinding medium and materials move in the same direction in the grinding layer. A small amount of materials and grinding media rotates around a rotating cage. When the cage rotates at high speed, the centrifugal force on the zirconia ball is greater than the pressure exerted by the pump on the cavity, and the zirconia ball is held in the grinding cavity for grinding. At the same time, the centrifugal force generated by the rotating separator on the material at high speed is less than the pressure generated by the pump on the material. The material is forced to be written off.

Structural characteristics:

1. The material of the grinding system can be selected according to the characteristics and requirements of the material;
2. The double power structure is designed based on the rod sand mill. The rotary separation system is a technological leap in separating ultrafine powders based on hydrodynamics, thus

achieving true nanogradation and laying the foundation for producing efficient nano-sized powders.

3. Users can solve the problem of adjusting various product manufacturing processes by simply adjusting the operating parameters of the grinding rotor and rotor separator using the independent drive motor; If different fine grinding media, different line speeds and different grinding temperatures can be used, high-speed grinding with high flow and high-speed drive can also be neatly dispersed;

4. However, from a hydrodynamic point of view, the grinding suspension is overfilled through centrifugal force and pressure pumped through the hollow shaft, avoiding the common phenomenon of clogging and residues in grinding.

Product advantages:

1. 0.05mm can be used for stable grinding and dispersion;
2. Unique centrifugal technology and cyclone separator structure prevent material clogging and leakage;
3. Special shell cooling layer can be cooled quickly under high line speed and repeated grinding;
4. Unique grinding system, rotor and rod design can centrifuge the suspension according to different fineness, so that fine particles continue to be involved in ineffective grinding.

型号 [L] Model	研磨腔体有效容积 [L] Effective Volume [L]	主驱动功率 [kw] Motor Power [kw]	动态分离器驱动功率 [kw] Dynamic Separator Drive Power [kw]	动态分离器驱动转速 [rpm] Dynamic Separator Drive Rotating speed [rpm]	通用研磨介质规格 [mm] Media diameter [mm]	加工批量 [L] Batch Capacity [L]	流量 [kg/h] Flow rate	外形尺寸 [mm] 长*宽*高 Dimension [L*W*H]	重量 [kg] Weight [kg]
BSM-2S	2	7.5	○	○	0.05-2.0	10-100	200-1000	1150*1100*1250	350
BSM-10S	10	18.5-22	7.5	1450	0.05-2.0	50-200	200-1000	2500*1100*1600	1500
BSM-30S	30	37-45	11	1450	0.05-2.0	200-1500	300-2000	3100*1300*1650	1900
BSM-60S	60	75-90	18.5	960	0.05-2.0	300-2000	500-2000	3850*1450*1900	3500
BSM-90S	90	90-110	22	960	0.05-2.0	500-2500	700-3500	4100*1550*2000	5000
BSM-150S	150	132-160	37	960	0.05-2.0	800-4500	800-5000	5050*1650*2300	7000

\*取决于所研磨物料粘度、研磨工况、泵浦的输送形式等因素 \*depends on material viscosity, grinding condition, and pump conveying form.

型号 [L] Model	研磨系统棒销材质 Rotor Material			研磨腔体内筒材质 Cylinder Material			
	氧化锆 ZrO <sub>2</sub>	聚氨酯 PU	合金钢 Metal Grinding Chamber	氧化锆 ZrO <sub>2</sub>	碳化硅 SiC	聚氨酯 PU	合金钢 Metal Grinding Chamber
BSM-2S	○	○	○	○	○	○	○
BSM-10S	○	○	○	○	○	○	○
BSM-30S	○	○	○	○	○	○	○
BSM-60S	○	○	○	○	○	○	○
BSM-90S	○	○	○	○	○	○	—
BSM-150S	○	○	○	○	○	○	—

○为可选材质配置，—为不可选材质配置 ○ Optional,—Not available

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