

FSH-CM Series Colloid mill



The FSH-CM series has significant advantages in the grinding and homogenization process. The minimum gap between the stator and rotor is 0.1 mm, and the ultra-high shear rate and high linear speed energy concentration produced, the multi-stage tooth structure and the grooves with different geometric shapes can achieve the optimal processing of materials, thereby effectively crushing and grinding materials.

The outside of the cavity of the equipment is equipped with an adjustment handle. The gap between the stator and rotor can be adjusted steplessly. It can be adjusted to the most suitable gap for grinding according to the process requirements, or it can be preset with a fixed gap size according to user needs.

The equipment has the characteristics of high efficiency and low energy consumption, and can be applied to various wet grinding, crushing processes, and the production of viscous emulsions.





Model	Power (kW)	Rotation speed (rpm)	Maximum capacity (H ₂ O) L
FSH-CM40	1.5	7900	300
FSH-CM50	7.5	6000	2500
FSH-CM100	15	4200	7500
FSH-CM200	37	3000	20000
FSH-CM300	55	1500	40000

Principle:

The core principle of a mixer is to transfer kinetic energy to the fluid through mechanical energy, generating flow, shearing, and circulation, thereby achieving uniform mixing. The motor drives the mixing shaft to rotate via a reducer. The rotating impeller generates axial, radial, or tangential flow, propelling the material. A velocity gradient is formed between the blades and the fluid, generating shear force that breaks down particles and disperses the phase. The fluid forms a macroscopic circulating flow within the container, achieving overall homogenization.

Advantages:

Process adaptability: Impeller type, speed, and sealing type can be customized according to material viscosity, density, temperature, and reaction requirements;

Energy saving and environmental protection: High-efficiency motor + frequency conversion control reduces energy consumption; sealing system reduces leakage and pollution;

Hygienic design: Easy and simple to clean, suitable for CIP/SIP operation, and meets international hygiene standards and specifications.

Biology
Pharmacy



Food



Daily Care



Chemical
Industry



New
Material



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