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Hybrid dual planetary power (300L-1800L)



Features of the dual planetary power hybrid:

1. High line speed: The line speed can reach 25m/s, and the dispersion time is greatly reduced; After mixing, the particle size of the battery suspension is small and the consistency is high, which effectively solves the phenomenon of suspension agglomeration.

2. The bearing uses Swedish fully imported SKF angular ball bearing, which has larger radial and axial load than traditional deep groove ball bearings, has higher load-bearing capacity and can withstand higher speeds without deformation, which greatly improves the stirring speed and service life (comprehensive service life 24 hours of continuous operation at 21 m/s) is 3 years. higher).

3. Zero to zero assembly concept: Fine and dense assembly, high parts coordination and tolerance to the machining precision of the main components is within 30 μ m (mixing shaft, dispersion shaft and different pore position), thereby ensuring concentricity and flatness and reaching from zero to zero assembly of the main components. The operation is smoother and the noise is less than 70dB(A) per meter.

4. Good sealing performance, no oil leakage phenomenon: two sets of mechanical seals plus soft and hard seals, the planetary transmission box adopts a completely sealed structure, the bearing position has been newly designed, and the bearing limit is reasonably distributed, thereby reducing bearing wear; Vacuum without load 24 hours holding pressure -0.092 to ensure mixing process No oil leakage.

5. The gap between the inner wall of the oar and the barrel: the gap between the oar and the oar, the wall between the oar and the barrel wall and the bottom of the barrel is

reasonable; The bottom of the stirring paddle has a scratching design, and the roundness of the barrel is high, less than 0.2mm.

6. Large torque: The stirring paddle is made of 316L stainless steel (more than 650L is made of special steel, with micro-deformation self-healing ability, so that the stirring paddle will not be deformed due to long-term large torque). The output torque was simulated and calculated by computer, with high strength, suitable for high viscosity and high solid content in lithium separation. Positive and negative suspension powered batteries (lithium iron phosphate, ternary, high nickel ternary, potassium manganate, lithium cobaltate, etc.) can adapt to different processes (dry mixture, wet mixture).

Scope of application:

1. Engineering adhesive industry:

RTV silicone rubber - construction silicone rubber (silicon sealant, acid glass adhesive), mechanical silicone rubber, electronic silicone rubber.

Polyurethane two-component polyurethane sealant, one-component polyurethane sealant, glass glue, organic adhesive...

2. Paint and varnish (paint) industry

Decorative coatings, anti-corrosion coatings, conductive coatings, anti-corrosion coatings, high temperature coatings, thermal coatings, thermal insulation coatings, titanium dioxide...

3. Ink industry

Silicone plastic key ink, modified plastic ink, metal glass ink, shoe ink, ABS ink, PU ink, UV ink, additive ink, pigment ink, special silicone ink...

4. New energy industry

Fuel cells, rechargeable batteries, lithium ion polymer (LIP) batteries, buckle batteries, lithium iron phosphate batteries, electric vehicle batteries, lithium batteries, nickel metal hydride batteries, mercury free alkaline zinc manganese batteries, lithium ion (lithium-ion) plastic batteries, supercapacitors for electrochemical energy storage, lithium-ion battery.....

5. Electronic (electric paste) industry

Solder paste, lead solder paste, lead-free solder paste, solder paste, medium paste, resistance paste, conductor paste, flux, cleaning agent, soft magnetic materials, aqueous magnetic materials, electronic electrode paste, ceramic paste, magnetic materials, electronic coatings, electronic adhesives, adhesives for filling electronic electrical appliances, hot melt adhesives...

6. Pharmaceutical industry

Biopolymer gels, medical connectives, ointments, toothpastes, dental supplies...

7. Food industry

Chocolate, chewing gum, molasses, jam, peanut butter, relish...

8. Other industries

Fine chemicals, new chemicals, polymeric materials, kaolin, low, medium and high viscosity materials (liquid-liquid phase, liquid-solid phase)...

Working principle of two star vacuum mixer:

During the working process of the double planetary energy mixer, two parallel meshes The mixing blades operate according to a set fixed rotation ratio, rotating along the mixing barrel and rotating rapidly. At the same time, there is a rotating scraper in the mixing barrel, which works synchronously with the public rotation, so that the material moves from the inner wall of the mixing barrel into the vicinity of the mixing blade, and the operation of the mixer direction and rotation can be in the same direction or in the opposite direction to achieve various shear goals. The high-speed dispersion gears of two other separate power units also operate along the mixing barrel to rotate for dispersion and emulsification. High-speed dispersion gears are frequency conversion speed regulation, and the speed can be adjusted according to the production process.

This kind of driving mode can achieve a completely uniform emulsification effect in a short period of time, which is especially suitable for the dispersion and mixing of solid phase, solid and liquid phase.

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