HIGH VISCOSITY DOUBLE PLANETARY MIXER

High viscosity double planetary mixer is a special equipment for mixing ultra-high viscosity materials. Users can choose different mixing paddles according to different production processes and material characteristics. In addition, due to its own vacuum system, high viscosity double planetary mixer can effectively avoid the generation of bubbles and foam while processing. This mixer is especially suitable for mixing, dissolving and mutual reaction from powder to high-viscosity and high-density materials.

How High Viscosity Double Planetary Mixer Works?

The high viscosity double planetary mixer is equipped with a low-speed stirring part and a high-speed dispersing part. The low-speed stirring parts are driven by planetary gears, and the stirring paddles also rotate when they revolve, so that the material moves up and down and around, so as to achieve the ideal mixing effect in a short period of time.

The high-speed dispersing part revolves with the planet carrier, and rotates at high speed at the same time, so that the material is subjected to strong shearing and dispersing mixing, and its effect is several times that of the ordinary mixer.

The two double-frame agitators revolve and rotate at the same time in the barrel, which can realize vacuuming, heating and cooling. According to the situation, the machine can realize speed adjustment, equipped with multiple mixing barrels, and can operate with multiple barrels in one machine. Matching the pressing machine can make the discharge more convenient.

Feature Of High Viscosity Double Planetary Mixer?

- The revolution and rotation of the stirring paddle in the tank adopts frequency conversion speed regulation (frequency conversion motor), and different speeds can be selected according to different processes and different viscosities. The speed measuring system directly gives the speed of different stirring paddles at that time.
- The (trapezoidal) soft seal between the mechanical seal and the kettle body enables the material to be operated under vacuum;
- The kettle body can be heated by electricity, steam, water and oil circulation. The unique temperature detection device on the transmission shaft ensures that the temperature error of the material is less than ±1°C, and the jacket, bottom jacket, inner coil and deflector of the jacket can be cooled;
- The hemp spiral stirring paddle in the kettle (the distance between paddle and paddle, paddle and barrel wall is 3-4mm, multiple paddles) also rotates at the same time of revolution, so that the material flows up and down and around, so that the mixing effect can be achieved in a very short time.

- The revolution and rotation of the stirring paddle in the kettle adopts frequency conversion speed regulation (frequency conversion motor), and different speeds can be selected according to different processes and different viscosities. The speed measuring system directly gives the speed of different stirring paddles at that time.

Applications

In recent years, high viscosity double planetary mixer has become necessary equipment in more and more industries. In particular, as the trend of world energy changes, it is used more and more widely in the development of new energy.

Electronics

Solder paste, ceramic slurry, magnetic material, silicone ink, electronic adhesive, pvc plastic, potting glue for electronic and electrical devices, hot melt adhesive

New Energy

Various battery slurries and pastes (lithium batteries, nickel-chromium batteries, nickel-hydrogen batteries, fuel cells, power batteries)

Electronics

Various sealants, adhesives (silicone sealants, polysulfide sealants, insulating glass sealants, structural sealants, anaerobic adhesives, stone adhesives, mold adhesives, etc.), synthetic resin rubber, putty, Abrasives paste

Cosmetics & Daily Chemicals

Body cream, lipstick, lotion, gel, mask, mascara, foundation, nail polish, toothpaste, soap.

Food

Various pastes, paste-like mixtures, seasonings, jams, chocolate syrups.

Specifications

MODEL	BATCH CAPACITY	TANK SIZE	MIXING POWER	REVOLUTION SPEED	SPIRAL SPEED	DISPERSION POWER	DISPERSION SPEED	VACUUM
	(L)	(mm)	(KW)	(rpm)	(rpm)	(kw)	(rpm）	(Mpa)
SDPM-2	2	φ180*120	0.75	0-65	0-146	0.75	2980	-0.095
SDPM-5	5	φ250*150	1.5	0-65	0-117	1.5	2980	-0.095
SDPM-10	10	φ300*200	2.2	0-48	0-100	2.2	2980	-0.095
SDPM-15	15	φ350*250	2.2	0-42	0-99	2.2	2980	-0.095
SDPM-20	20	φ350*300	2.2	0-48	0-100	3	2980	-0.095
SDPM-30	30	φ400*300	3	0-42	0-97	4	1440	-0.095
SDPM-50	50	φ450*400	3	0-42	0-97	4	1440	-0.095
SDPM-60	60	φ500*450	5.5	0-36	0-64	7.5	1440	-0.095
SDPM-80	80	φ550*450	5.5	0-36	0-64	7.5	1440	-0.095
SDPM-100	100	φ650*450	7.5	0-30	0-56	11	1440	-0.095
SDPM-200	200	φ750*550	11	0-28	0-52	15	1440	-0.095
SDPM-300	300	φ850*650	18.5	0-26	0-52	22	1440	-0.095
SDPM-500	500	φ1000*850	37	0-22	0-51	45	1440	-0.095
SDPM-1000	1000	φ1300*1000	45	0-20	0-33	55	960	-0.095