

Laboratory High Shear Mixer



Technical features:

1. The servo motor drive and new type cutting knife drive structure are used to ensure the equipment can run smoothly at low speed. The noise of the whole machine is no more than 75 decibels.
2. During the material mixing process, the mixing paddle and chopper can be adjusted in stepless speed regulation, according to the capacity and characteristics of the materials, the rotating speed of the mixing paddle and chopper can be adjusted to ensure the swirl of moving materials which make the materials mix fully. The highest speed of hopper is 2000rpm. When applied to the granulation process, the granulator would break the rolled mass into particles in the intersection area.
3. The simultaneous rotation of mixing paddle and granulator can make the material produce three-dimensional movement, and the collision, friction and shear is produced between materials can make the friction uniform.
4. It can be equipped with 4 stirring pots of different volumes, which can be replaced conveniently and quickly. According to the requirements of different user production batch, granulation, mixing, humidifying and granulating can be completed in one time usually in 8 minutes.
5. The machine provides high production efficiency, high mixing efficiency of materials, short mixing time, less heating of materials friction, so it especially suitable for heat-sensitive materials.
6. As the entire production process is run in an airtight container, the material dust has little air pollution to the cleaning workshop and cross pollution, there is not blind angle at the container, discharge port and other.
7. When used for wet granulation, it can be equipped with a servo motor to drive the peristaltic pump head and the automatic refueling system of high precision airflow spray gun which brand is watson-marlow the granulation run well and the particle is uniform.

Technical parameters:

Type	Production capacity	Capacity of stir pot	Rotate speed of stir paddle	Power of stir electromotor	Rotate speed of chopper	Power of granulator electromotor	Time of granulator	Pressure of compressed air	Boundary dimension
project									
HLSG MINI LAB	Kg/	L	rpm	KW	rpm	KW	min/	Mpa	mm
	batch						batch		
	1月5日	1月15日	50-1000	2	150-2950	0.4	≤10	≥0.4	2280*800*1580