



HLSG series Wet Mixing Granulator



Product Details

Wet granulation mixture once mixed humidification function, granulation processes, for the pharmaceutical, food and chemical industries. It is in line with the GMP requirements of pharmaceutical production advanced equipment, with high efficiency, high quality, low cost, pollution and safety.

Features:

1. The material in the stainless steel vessel mixing, granulating.
2. The three-roll mixing, high uniformity, mixing, granulating step, in line with the GMP requirements of pharmaceutical production.
3. Compared with the general mixing granulation equipment to improve efficiency 4-5 times, saving 15-25% binder loading, safety protection devices to ensure safety in production.
4. where the model is HLSY100S, HLSG100, HLSG200 paddles stirring speed, granulating knife speed set by the inverter control, can be widely applied to various industries granulation process.

Working principle:

Granulation process of the machine is done by mixing and granulation processes both in the same container. Powder material in a fixed conical container, the stirring effect of mixing the slurry, so that the material flow collision dispersed into semi rollover state, and achieve adequate mixing. With the injection of adhesives, so that powder gradually wet, the material shape changes, strengthen the paddle and the barrel wall on the material extrusion, friction and kneading action, so as to form a uniform moist soft material. These soft materials at high speed cutting whole grain slurry granulation, and gradually form a fine and uniform wet granules, and finally by the discharge port discharge. Mesh particle size is determined by the characteristics of materials, time and other factors speed and granulated materials made knife constraints.

▲ *The main purpose:*

For the pharmaceutical industry, the production of tablets, capsules, can provide ideal granular as tablet, capsule step.

▲ *Main features:*

- ◇ with particles of the equipment manufacturing, the ball really high, good liquidity, even texture, can effectively improve the compression efficiency, quality and capsule filling tablet, the tablet has better brightness, hardness, disintegration and release degree, and reduce production costs.
- ◇ and material contact parts made of stainless steel 316L, the appearance of some stainless steel 304 material.
- ◇ sophisticated manufacturing, safety chain thoughtful, easy to clean, with automatic water cleaning system, no metal corners, no accumulation of materials, is ideal for wet granulation equipment.
- ◇ according to the performance of Chinese and Western medicine, the wet-type mixing granulator is divided into Chinese medicine and western medicine type.
- ◇ according to user needs, configure HMI / PLC control, or the use of explosion.

Technical Parameters:

Parameter	model					
	HLSG10	HLSG50	HLSG100	HLSG150	HLSG200	HLSG300
Total volume L	10	50	100	150	200	300
Maximum feeding amount kg/batch	3	15	40	50	80	100-130
Mixing motor power KW	0.8	5.5	7.5	6.5	13	22
Impeller speed r/min	430-600	25-500	25-500	220-330	25-500	10-150
Granulation cutter motor kw	0.55	1.5	3	4.5		