

## *HLSG Series Super Mixing Granulator*



It is suitable for mixing powder and power, granulating powder and adhesive in pharmaceutical, chemical, food and other industries. This machine has passed the appraisal of province-level New products and the certification of CE.

### **Performance and Characteristics:**

- ◆With consistent programmed technology (man-machine interface if option selected), the machine can get assured of stability in quality, as well as easy manual operation for convenience of technological parameter and flow progress.
- ◆Adopt frequency speed adjustment to control the stirring blade and cutter, easy to control the size of particle.
- ◆With the rotating shaft hermetically filled with air, it can prevent all dusts from compact.
- ◆With a structure of conical hopper tank, all material can be in uniform rotation. The tank is laid with an interlayer on the bottom, in which water cooling circulation system featuring higher thermostatic performance than air-cooling system is furnished, which leads to improve the quality of particles.
- ◆With automatic lifting of the pan cover, the tank outlet matching with drying device, self-equipped arm-ladder. It is easy to operate.

### **Working Principle:**

- ◆The whole process consists of two programs including mixing and granulating.
- ◆Powder material can be charged into the material pan from the conical hopper and continue to rotate in the container under the action of mixing blade once the hopper is closed. In the meanwhile, materials change along the direction of the conical wall and gradually generate the liquid bridge. Under the action of extrusion, friction and kneading of the material by the blade and tube wall, the

material is gradually transformed into a loose material, and then the discharge door is open, Wet particles push discharging under the centrifugal force of the blade.

◆These soft particles are formed not dependent on forced extrusion effects, more exactly; these small and uniform particles are mainly formed after continuous cutting under the similar-liquid state. Then achieves the goal of granulation.

## Technical Parameters

Model	HLSG-50H	HLSG-50H	HLSG-50H	HLSG-50H
Items				
Working capacity(L)	3-35	12-35	25-70	80-120
Time of granulating/batch	(Mixing:about 2 minute,Granulation:about 7 minutes/batch)			
Rotating speed of stirring paddle(RPM)	0-700	25-500	30-250	30-250
Power of String paddle motor	5.5	5.5	7.5	15
Rotating speed of cutter	50-3000(R/M)			
Power of cutting knife motor	1.5	1.5	3	4
Over size(L*W*H)	1925*704*1560	1935*662*1650	2078*702*1800	2268*910*2100
Height of discharge outlet(mm)	780	796	796	920
Weight of machine(Kg)	600	584	700	1111

Model	HLSG-50H	HLSG-50H	HLSG-50H
Items			
Working capacity(L)	130-180	150-240	200-360
Time of granulating/batch	(Mixing:about 2 minute,Granulation:about 7 minutes/batch)		
Rotating speed of stirring paddle(RPM)	30-220	30-200	30-170
Power of String paddle motor	18.5	22	30
Rotating speed of cutter	50-3000(R/M)		
Power of cutting knife motor	7.5	11	11
Over size(L*W*H)	2600*1000*2300	2870*1172*2560	2964*1230*2553
Height of discharge outlet(mm)	985	985	1162
Weight of machine(Kg)	1350	1700	2000