



(SHLG Series) High Speed Pharmaceutical Mixer Granulator



The machine is a process machine widely applied for solid preparation production in the pharmaceutical industry. It has such functions as mixing, granulating, etc. It is widely used in such industries as medicine, food, chemical industry, etc.

Work principle

The powder materials are fed into the mixing vessel through the dispensing system. Through rotation and push by the mixing paddle at the bottom, they first move under a fluidizing status and get sufficient mixing. Then the adhesive is injected through the pressure spray gun to turn the dry powders into wet and soft materials. Meanwhile, they are made into even wet granules under the double actions of the mixing paddle and the high-speed cutter on the side wall.

Features

1. The whole machine is made of high quality stainless steel.
2. It is provided with special mixing barrel and conical column of a compound structure. The corners on the inner wall are subject to smooth transition and mirror polishing with easy cleaning and without material sticking.
3. The mixing and granulating procedure can be completed in one step with the materials in the closed mixing barrel.
4. It adopts PLC control. The mixing and granulating motors are subject to variable frequency speed adjustment. All operations can be carried out automatically or manually.
5. It is provided with interlocking protection device to ensure safer operation.
6. It is equipped with printer to automatically print all process parameters, with the original records conforming to the actual ones.
7. It can be equipped with wet granulation machine and swing granulator and connect with fluidized bed dryer to form a fully closed granulating production line.

Technical Parameters

Item	Model	SHLG-100	SHLG-150	SHLG-200	SHLG-300
Production capacity (kg/batch)		20-40	30-60	40-80	60-120
Mixing motor power(KW)		11	15	22	30
Mixing paddle rotation speed(rpm)		5-200	5-200	5-200	5-200
Granulating motor power(KW)		4	5.5	5.5	7.5
granulating knife rotation speed(rpm)		0-2900	0-2900	0-2900	0-2900
Miller Power(Kw)		1.1	1.5	3	4
Impeller Speed(rpm)		300-1400	300-1400	300-1400	300-1400
Compressed air consumption(m3/min)		0.4	0.4	0.6	0.6
Compressed air pressure(MPa)		0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6
Outline dimensions	L	2200	2300	2560	2560
	L1	1600	1600	2000	2000
	W	2400	2400	2400	2600
	W1	1600	1600	1600	1800
	H	2600	2600	3050	3050
	H1	1400	1400	1400	1400
	H2	1360	1360	1360	1360

Item	Model	SHLG-400	SHLG-500	SHLG-600	SHLG-800
Production capacity (kg/batch)		80-160	100-200	120-240	160-320
Mixing motor power(KW)		30	37	45	55
Mixing paddle rotation speed(rpm)		5-200	5~170	5-170	5-150
Granulating motor power(KW)		7.5	7.5	7.5	11
granulating knife rotation speed(rpm)		0-2900	0-2900	0-2900	0-2900
Miller Power(Kw)		4	5.5	5.5	5.5
Impeller Speed(rpm)		300-1400	300-1400	300-1400	300-1400
Compressed air consumption(m3/min)		0.6	1	1	1
Compressed air pressure(MPa)		0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6
Outline dimensions	L	2585	2780	2780	2880
	L1	2000	2200	2200	2300
	W	2600	2800	2800	2900
	W1	1800	2000	2000	2100
	H	3050	3050	3050	3150
	H1	1400	1400	1400	1500
	H2	1360	1370	1370	1470