


Technical spec of High speed wet mixig granulator



INTRODUCTION

Applied in trades such as pharmaceutical trade, chemical trade as well as food trade etc, more exactly shown as follow: Mixing of powder and powder, Granulation of powder and bond. This machine has passed the appraisal of province-level New products and the certification of EU 

WORKING PRINCIPLE

The process consists of two programs including mixing and granulating.

Powder metrical 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 hoper is closed. In the meanwhile, all materials grow up the shape of liquid bridge under continuous effects of conical wall. Under the action of extrusion, friction as well as crumb by blade and conical tank wall, all material is gradually turn for loosen. At last , while opening the hoper outlet, waterish particles are pushed off under the centrifugal effects of blade.

These soft particles are formed not dependent on forced extrusion effects, more exactly; mainly these small and uniform particles are formed after continuous cutting under the simile-liquid state. in all, this machine can realize the mutual transformation between different materials.

CHARACTERS

- 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 dust 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.
- Lifting system with paddle is more beneficial to clean paddles and pot body.
- Mouth of material outlet has changed Into arc-shaped, avoiding up dead spaces.

HLSG-600 Technical parameters


Model and specification	HLSG-600
Hopper capacity	600L
Working capacity	480L
Operational time	Mixing about 8 minutes granulating about 5-20 minutes each batch
Finished product granularity	About Φ 0.10- Φ 2.5mm
Mixing motor	30 KW 6 poles
Mixing blade rotating speed (Frequency conversion speed-adjusting)	20-200 R/Min
Granulating motor	11KW 2 poles
Granulating blade rotating speed (Frequency conversion speed-adjusting)	50-3000 R/Min
Compressed air	0.6 m ³ 0.7Mpa(Collocated by customer themselves)
Cooling water connecting	Φ 10mm
compressed air ora	Φ 10 mm
Height of material outlet (mm)	1150
Overall dimension of main machine (L×B×H)	2980×1200×2500mm
Weight	2200kg

HLSG-600 component list

N0	Description	Model and specification	Power	Quantity
01	Transducer	VFD300B43A	1	Taiwan Delta
02	Transducer	VFD110M43A	1	Taiwan Delta
03	Touching screen	SMART 1000 IE	1	SIEMENS
04	PLC programme controller	ISR30 -0AA0	1	SIEMENS
05	main switch	ZB2-BG20	1	Schneider
06	Breaker	DZ47-63 60A/60A/25A	1	CHINT
07	Breaker	DZ47-63 5A	1	CHINT
08	Switching Power Supply	S-50-24	1	Taiwan Delta
09	Mini type relay	HH52P 5A 220V	2	CHINT
10	Emergency switch	LA-19Y 10A		CHINT
11	Temperature controller	SW-C4	1	Shanghai
12	Thermocouple	K type	1	Zhejiang
13	Motor	Y180L-6 30KW	1	Shanghai Lichao
14	Motor	Y112M-2 11KW	3	Shanghai Lichao
15	Electromagnetic valve	ZW—160-10 220V	1	Zhejiang
16	electro connecting pressure gauge	1.6MPA	1	Zhejiang
17	Electromagnetic valve	4V230C-08	1	AirTAC
18	Buzzer	AC220V	1	CHINT
19	Electromagnetic Valve valve	4V210-08	1	AirTAC