

GHL-400

Rapid Mixer Granulator Machine



**EQUIPMENT
TECHNICAL PARAMETER**

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MACHINE INTRODUCTION

GHL series high-efficiency wet mixing granulator adopts horizontal cylinder structure with reasonable structure. Fluidized granulation, the granulation is approximately spherical and has good fluidity. Each batch is dry mixed for 2 minutes, granulated for 1-4 minutes, and the efficacy is 4-5 times higher than that of traditional processes. Yield rate > 99% , humidity of finished

granules < 5%. Compared with the traditional process, the binder is reduced and the drying time is shortened. The entire operation has strict security protection measures.

GHL series high-efficiency wet mixing granulator is suitable for mixing and granulating powdery materials injected with binder in pharmaceutical, food, chemical, light industry and other industries, and is also suitable for dry powder mixing.

MACHINE FEATURES

1. The GHL series high-efficiency wet mixing granulator consists of a host, a reducer, a discharge mechanism, a mixing blade, a control cabinet, a chopping blade and a balance support part. Reasonable structure, convenient operation, no dead angle, easy to clean;
2. GHL series high-efficiency wet mixing granulator adopts horizontal drum structure and advanced design.
3. Inflatable sealed drive shaft, switchable to water when cleaning.
4. Fluidized granulation, the granules produced have high true sphericity and good fluidity, so that the compressed tablets have better smoothness, disintegration and release.
5. Complete dry mixing-wet mixing-granulation in the same closed container, which reduces the process and saves time. Comply with GMP regulations.
6. With safety protection measures, magnet interlock switch. Prevent the material pot cover from being opened when the motor is running.
7. GHL series high-efficiency wet mixing granulator has a time delay circuit. When the last motor is turned off for 10-15 seconds, the material pot cover can be opened, and there is a signal light to indicate. When the main switch is turned off, the material pot cover is locked.
8. There is a travel switch on the discharge mechanism. When the knob of the material port door is loosened, the motor will be powered off and cannot be started.
9. The cylinder of the discharge piston of the GHL series high-efficiency wet mixing granulator can move forward and backward flexibly and can be adjusted.

WORKING PRINCIPLE

1. GHL series high-efficiency wet mixing granulator mixes powder materials and binders in a cylindrical or conical container thoroughly by the bottom mixing paddle to form a wet soft material, and then cuts it into uniform particles by the side-mounted high-speed pulverizing paddle. wet pellets.
2. When the GHL series high-efficiency wet mixing granulator is working, several formulations of materials are added to the working container at one time, and then injected into the adhesive after mixing, or one formulation of materials and adhesives are added to the working container at one time, and then stirred After the paddle mixes the soft material, the cutting reamer grinds the soft material into granules.
3. In the GHL series high-efficiency wet mixing granulator, the reamer is driven by a two-speed motor, so the granules of different particle sizes can be obtained by controlling the solubility of the adhesive, the reamer speed, and the crushing time, ensuring that the production of drugs can be done in batches and in batches. Between batches, the particle size distribution, density, fluidity and other aspects of quality can reach a high level of repeatability, and the GHL series high-efficiency wet mixing granulator is automatically produced according to the same procedure to ensure the granulation quality of the product.

TECHNICAL PARAMETERS

| MODEL | 400 |
|--|---------------|
| Volume (L) | 400 |
| Output (kg/batch) | 200 |
| Mixing speed (rpm) | 120 |
| Mixing power (kw) | 16 |
| Cutting speed (rpm) | 3000 |
| Cutting power (kw) | 8 |
| Compressed air consumption (m ³ /min) | 1.8m (0.6MPa) |

MAIN CONFIGURATION

| NAME | MODEL | QTY | BRAND | REMARK |
|--------------------------|---------------|-----|-----------------|---|
| Hybrid Motor | Y180M | 1 | Shanghai Redson | 16KW |
| Cutting Motor | YD132M | 1 | Shanghai Redson | 8KW |
| Bearing | 6212 (212) | 2 | Harbin Bearing | |
| Bearing | 30216 (7216E) | 2 | Harbin Bearing | |
| Pneumatic Solenoid Valve | AC220V | 5 | Chint | Two of them are two-position five-way, and three are two-position two-way |
| Oil Seal | PD80*100*12 | 1 | NAK | |
| Oil Seal | PD70*100*12 | 1 | NAK | |
| Oil Seal | SG80*105*12 | 1 | NAK | |
| Oil Seal | PD55*80*12 | 1 | NAK | |
| Y-Ring | 100*130*15 | 1 | Jiangsu Richeng | HG4-335-66 |
| Oil Seal | 80*100*12 | 1 | Jiangsu Richeng | |
| Dust Ring | 70 | 1 | Jiangsu Richeng | |
| O-Ring | φ260*5.3 | 3 | Jiangsu Richeng | |
| O-Ring | φ290*5.3 | | Jiangsu Richeng | |
| O-Ring | φ63*3.1 | | Jiangsu Richeng | |
| Quick Release Clamp | φ200 | 1 | Han Yang | |
| Pneumatic Triple | AFR2000 | 1 | AirTAC | |
| Inverter | 16kw | 1 | Delta | |
| Inverter | 8kw | 1 | Delta | |
| Plc | SR20 | 1 | Siemens | |
| Touch Screen | SMART-7 inch | 1 | Siemens | |
| Low Voltage Electrical | matching | 1 | Schneider | |
| Granulator | SUS 304 | 1 | Han Yang | |



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