

GHL-300

Rapid Mixer Granulator Machine



**EQUIPMENT
TECHNICAL PARAMETER**

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GHL-300 Rapid Mixing Granulating Machine



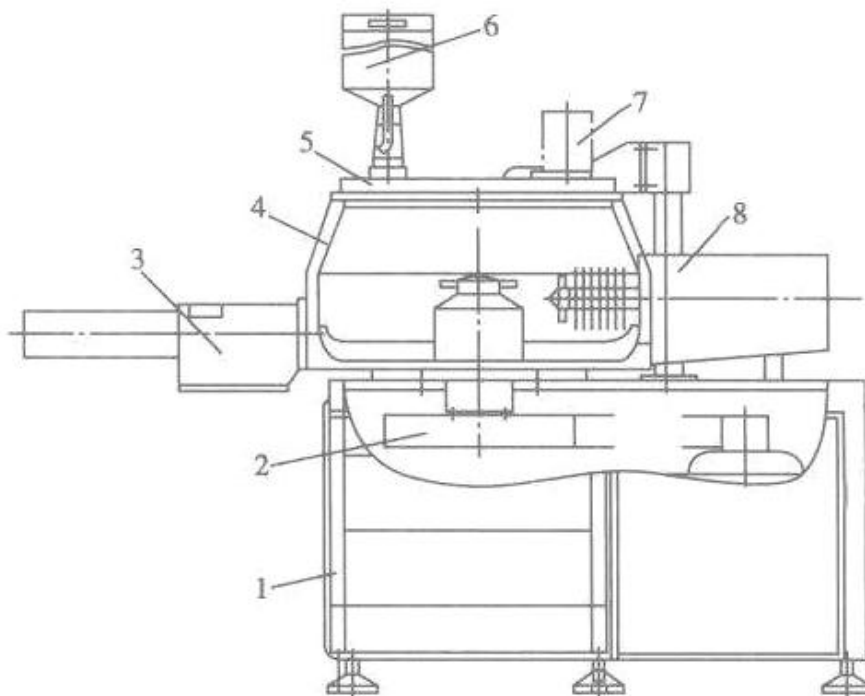
MACHINE INTRODUCTION

1. Mainly used for mixing and granulation in the pharmaceutical and food industries.
2. Made of stainless steel, mainly consisting of mixer grinding blades, granulation flying blades, and cylinders.
3. Adopting a horizontal drum structure, the drive shaft is fully sealed, and water can be used directly for cleaning. During the production process, the "dry mixing wet mixing granulation" process is completed in the same sealed container, and the entire process follows GMP production standards.

MACHINE FEATURES

Equipped with elbow mixing blades, mixing shafts, and shredding shafts with air sealing devices, pneumatic locking of the pot body, and low-noise nylon couplings. This type of equipment has a safety interlock device, which ensures safe and reliable use; The equipment adopts a horizontal structure, with good overall rigidity, simple structure, and easy maintenance; The agitator shaft and chopper shaft are equipped with air seals, which, like large-scale production models, can reliably ensure that no black spots are produced during the granulation process; The main components are installed inside the body, with a 304 stainless steel casing for the outer cover, and all parts that come into direct contact with the drug are made of 304 stainless steel; The granulation process is sealed, equipped with a curved stirring blade and 2-5 shredding knife sets. This type of equipment is equipped with dual frequency converters for regulating the speed of the mixing blade and chopper blade, touch screen and PLC control, and comes standard with a paper tape printer.

STRUCTURE DIAGRAM



1. 扶梯 Staircase 2. 搅拌传动 Mix System 3. 出料装置 Discharging System 4. 筒体 Drum Body
5. 盖板部分 Lid 6. 加液口 Additive Inlet 7. 视窗 View Port 8. 制粒部分 Shearing System

WORKING PRINCIPLE

1. It mixes the powder material and binder in a cylindrical or conical container, fully mixes it into a wet soft material by the bottom mixing paddle, and then cuts it into Uniform wet granulation.
2. When the machine is working, several formulations of materials are added to the working container at one time, and the adhesive is injected after mixing, or one formulation of materials and adhesives are added to the working container at one time. After the soft material is mixed by the stirring paddle, the cutting reamer grinds the soft material into granules.
3. When the reamer is driven by a two-speed motor, so the granules of different sizes can be obtained by controlling the solubility of the adhesive, the reamer speed, and the crushing time, ensuring that the production of medicines in From batch to batch, the quality of particle size distribution, density, fluidity, etc. reaches a high level of repetition. GHL series high-efficiency wet mixing granulators are automatically produced according to the same procedure to ensure the granulation quality of the product.

TECHNICAL PARAMETER

MODEL	GHL-300
Pot volume (L)	300
Production capacity (kg/batch)	140
Mixing speed (rpm)	5-160
Mixing power (kw)	18.2
Chop speed (rpm)	450-2900
Cutting power (kw)	4
Whole machine power (kw)	26
Host weight (kg)	1100
Dimensions (mm)	2400*1200*2200

ELECTRONIC PART LIST

NAME	MODEL	QTY	BRAND	REMARK	NOTES
frame	No.10 national standard channel steel	Q235	1	Hanyoo	
Shell	1.5	304	1	Hanyoo	
Reducer	200L	45 steel	1	Hanyoo	
Mixing motor	18.5KW		1	Jiangyin Dazhong	
Knife motor	4KW		1	Jiangyin Dazhong	
Main shaft air seal			1	Hanyoo	
Cutting knife air seal			1	Hanyoo	
Mixing blade	300L	304	1	Hanyoo	
Cutting knife		304	6	Hanyoo	
Cylinder body	300L	304	1	Hanyoo	
lid	300L	304	1	Hanyoo	
Liquid filling bucket	20L	304	1	Hanyoo	Mixing valve
Mirror			1	Hanyoo	
Bag outlet			1	Hanyoo	
Lift shaft		304	1	Hanyoo	
Lift cylinder			1	AirTAC	
Discharge cylinder			1	AirTAC	
Solenoid valve			3	AirTAC	
Discharge device	200L	304	1	Hanyoo	
seal up				Germany UKS	
Mixing frequency converter		18.5KW	1	Delixi	
Knife frequency converter		5.5KW	1	Delixi	
PLC and touch screen		1		Siemens	

A dark blue horizontal banner featuring various white line-art icons of medical supplies: a blister pack of pills, a pill bottle with a cross, two crossed capsules, a pill bottle, two pills, an ampoule, and another blister pack.

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