

GHL Series High Efficient Wet Mixing Granulator



GHL Series High Efficient Wet Mixing Granulator, the process of Mixing, Wetting and granulating can be completed in single working period. It is suitable for producing tablets and capsules in pharmaceutical industry and may provide ideal granular raw materials for the operation process of tablet or capsule forming. Also it is one of the advanced facilities which meets the GMP requirement and has the characteristics of high efficiency, best quality, low consumer, none pollution as well as safety, etc.

Features:

1. Mix and granulation in a stainless steel construction.
2. The journal is sealed by clear air.
3. Three-dimensional stirring and mixing that ensure high Degree of consistency. The Process of mixing.

Granulating can be completed in single. Working period which meets the GMP requirement. Compare with other normal equipment. The efficiency is 4-5 times higher than that of others. but the consumption for adhesive is 15-20% less than the traditional technology.

4. Having protective device that en-sure produce safety.

Working Principle:

The granulating process is divided into two procedures of mixing and granulating forming, which are finished in the same vessel. Powder materials in the fixed tapered vessel are hit and dispersed into semi fluid rolling state and given a complete mixture under the stirring action of mixed stock. With the infusion of bond, the powder is gradually moistened and the shape of materials is changed, which has strengthened the extrusion, attrition and kneading functions of the mixing paddle and vessel wall on the materials and thus formed evenly wet soft materials.

These soft materials gradually turn into fine and homogeneous wet grains under the high - speed cutting and grain forming of the granulating paddle and eventually discharged through the outlet. The grain size is dependable on the material characteristics, rate of material preparing tool and time of grain forming.

Advantages:

- 1) Grains produced by this machine enjoy true-ball sense, good fluidity and homogeneous material, which may effectively boost tablet pressing, improve tablet quality and enhance the capsule filling and thus make the tablets enjoy better brightness, hardness, disintegration and discharge. The production cost is also saved.
- 2) All the part in contact with materials and the appearance part is made of stainless steel 304.
- 3) Based on the different features of Chinese and western medicines, wet process mixer granulators are divided into Chinese medicine type and western medicine type.
- 4) Human-computer interface/PLC control may be configured or exclusion of explosion may be adopted according to the demand of customers.

Technical Parameters:

Model	GHL50	GHL100	GHL150	GHL200	GHL300
Volume	50 L	100 L	150 L	200 L	300 L
Production Capacity	15 Kg/Batch	40 Kg/Batch	50 Kg/Batch	80 Kg/Batch	(100-130) Kg/Batch
Mixed Speed	(25-500) rpm	(25-500) rpm	(220-330) rpm	(25-500) rpm	(10-150) rpm
Mixed Motor	5.5 Kw	6.5 Kw	7.5 Kw	13 Kw	22 Kw
Granulating Motor	1.5 Kw	3 Kw	4.5 Kw	5.5 Kw	7.5 Kw
Granulating Rotate Speed	(300-3000) rpm	(0-3000) rpm	(1500-3000) rpm	(0-3000) rpm	(300-3000) rpm
Packing Size (mm)	1720×720×1420	1770×800×1740	2075×850×1900	2120×1120×2120	2420×1270×2420