

GM Series High Shear Mixer Granulator



GM Series high shear mixer granulator is used in pharmaceutical solid dosage area for mixing and granulation application. It's the major processing equipment in solid dosage production line. The equipment is PLC automation controlled and well satisfies the current GMP and Pharmacy Code regulation.

Features:

1. Cylinder & conical material container structure, Z shaped mixing impeller, together forms the perfect mixing and granulation performance with qualified wet granules.
2. Modular designed platform and on-line wet cone mill option satisfies with various process and facility conditions.
3. Pressured spray, manual or other requested binder loading sys option satisfies with various product & granulation requests.
4. Designed with granulation end-point detection function, satisfies with the process reproducibility request.
5. Designed with self-vent vacuum loading sys for raw material, reduce the labor and avoids dust and cross contamination, satisfies with the current GMP clean production request.
6. Compound mechanical & air sealing structure avoid any material leakage and cross contamination, satisfies with the current GMP clean production request.
7. Variable impeller & chopper speed controlled by VFD and setup from HMI, satisfies with various product mixing & granulation requests.

Working principle:

The raw material is loaded into the container via self-vent vacuum sys(in case this option selected), or other loading sys as requested; and mechanically fluidized inside the container

under the impeller force, which realizes the perfect mixing performance. Loading the binder into the container and starts the chopper; The material coheres together by the binder which forms the binder bridge for form the core granules. Under the mechanical energy conversion, the qualified granule grows up and formed.

Technical Parameters

产品型号 Model	料缸容积 Container volume	工作容积 Working volume	搅拌电机 Mixing power	搅拌转速 Mixing rpm	制粒电机 Chopper power	制粒刀转速 Chopper rpm	湿整粒电机 Wet mill power	整粒刀转速 Mill rpm	压缩空气耗量 Compress air cons	设备外形尺寸 Machine overall dimension	设备总重 Weight
	L	L	kW	RPM	kW	RPM	kW	RPM	m ³ /MIN	L×H×D /m	kg
GL1-10	1,2,3,5,6,10	0.4~8	2.2	50~960	0.75	1000~2800	/	/	0.1	1.1×1.4×0.5	300
GL2-25	2,3,5,6,10, 15,25	0.8~20	4	50~780	1.1	1000~2800	/	/	0.1	1.3×1.4×0.6	300
GL50	50	20~40	5.5	5~355	2.2	1000~2800	0.75	300~1400	0.2	2.0×1.8×0.7	800
GM75	75	30~60	5.5	5~300	2.2	1000~2800	1.1	300~1400	0.2	2.6×2.4×1.7	950
GM100	100	30~80	7.5	5~287	3	1000~2800	1.1	300~1400	0.2	2.7×3.1×2.2	1100
GM150	150	60~120	11	5~240	4	1000~2500	1.1	300~1400	0.2	3.1×3.6×2.1	1600
GM200	200	80~160	18.5	5~223	4	1000~2500	3	300~710	0.2	3.0×3.5×2.3	2500
GM300	300	100~240	22	5~200	5.5	1000~2500	3	300~710	0.2	3.3×4.1×2.4	2700
GM400	400	160~320	30	5~185	5.5	1000~2500	3	300~710	0.2	3.3×4.3×2.7	3000
GM500	500	200~400	37	3~169	7.5	1000~2500	4	300~710	0.3	3.4×4.4×2.9	4100
GM600	600	240~480	45	3~162	11	1000~2500	4	300~710	0.3	3.3×4.7×3.5	5300
GM800	800	320~640	55	3~148	11	1000~2000	5.5	300~960	0.3	3.5×5.5×2.7	5700
GM1000	1000	400~800	55	3~140	15	1000~1500	5.5	300~960	0.3	3.4×5.5×3.3	6000
GM1200	1200	480~960	75	3~133	15	1000~1500	5.5	300~960	0.3	3.4×5.6×3.7	6700