

Hot-melt Mixing Granulator

Applications:

Mainly used for the granulation process of oral dosage and parenteral administration of solid dispersions, including aggregates, pellets, nanospheres, etc.

Features:

1. One equipment has three functions: ① basic wet mixing granulating; ② hot-melt mixing granulating; ③ low-temperature wet mixing granulating suitable for heat sensitive products.
2. Water bath heating used in the hot-melt granulating process keeps temperature variance within $\pm 1^{\circ}\text{C}$.
3. The various screw structure designs help to achieve multi-functions in one machine, including mixing, pressing, hot-melting, extruding and cooling. API and excipients mix and fuse thoroughly.
4. Multiple options of heating system are available, including electronic heating, oil bath, and steaming.
5. Gradient granulating program can be set by adjusting different parameters, such as impeller/ chopper speed and time etc.
6. The safety lock design make chopper to auto-stop once the lid is lifted.
7. The mixing bowl is composed of two layers, the inner layer with heating medium and the outer layer with insulation materials. This design ensures safety and heating energy efficiency.
8. GMP standard, three-level security authorization, parameters controlled by PLC, auto-save for all data which can be exported by USB devices.



Lab, Pilot and Production Models and Technical Data

Model	MG-1	MG10	MG50	MG100	MG200	MG600
Production Capability (kg/h)	0.1-0.5	1-3	5-15	10-30	20-60	60-180
Bowl Volume (L)	1	10	50	100	200	600
Impeller Speed (rpm)	50-480	50-480	50-480	50-480	50-480	30-300
Chopper Speed (rpm)	300-2800	300-2800	300-2800	300-2800	300-2800	300-2800
Heat/ Temp. Control	Electric heat/ Room temp. -200°C					
Heating Medium	Water, Steam, Oil Bath					
Cooling Medium	Circulation Water Cooling					
Power	380v 3 phase 5 wire					
Total Power (kw)	5.5	7	15	25	35	45
Dimensions (mm)	1100×500×600	1200×600×800	1800×800×1300	2100×1200×1700	2500×1500×1800	2800×1800×2000

