

Rapid Mixer Granulator LMZ Series



Rapid mixer granulator is also called high shear mixer granulator or wet granulator. It's an equipment that is used to mix powder ingredients and make granules. Rapid mixer granulator consists of mixing bowl, impeller, chopper, discharge port, liquid binder inlet port, pneumatic system and control system etc. This machine is widely used in pharmaceutical, foodstuff, chemical industry and light industry.

Working Principle:

The granulation process of LMZ Rapid Mixer Granulator is carried out by mixing and granulating two processes in the same bowl. The powdery material is in the fixed conical bowl, and the powder collision is dispersed in the semi-flowing tumbling state due to the stirring effect of impeller. And to achieve full mixing, the material gradually becomes wet with the injection of liquid binder. With the material shape changing, impeller and the wall of bowl strengthens the effect of extrusion, friction and kneading to the material. And this results in loose soft material. Under the influence of granulation impeller, the loose soft material gradually forms fine and uniform wet granules.

Technical Parameters:

Model	LMZ-10	LMZ-50	LMZ-100	LMZ-200	LMZ-300	LMZ-400	LMZ-600
Total Capacity (L)	10	50	100	200	300	400	600
Working Capacity (L)	2-6	12-36	25-70	50-150	60-220	100-280	150-440
Material Feeding Capacity (kg)	1-3	6-18	12-35	25-75	30-110	50-140	75-220
Impeller Rotary Speed (rpm)	5-500	50-500	30-360	30-260	20-200	20-200	20-200
Chopper Rotary Speed (rpm)	5-3000						
Impeller Motor Power (KW)	2.2	5.5	7.5	15	22	22	30
Chopper Motor Power (KW)	0.75	45413	3	4	7.5	7.5	11
Weight (kg)	260	420	760	1200	1600	1650	3000