

LZG系列流化喷雾干燥制粒机

LZG Series Fluid Bed Spray Drying Granulator

► 用途 (Application)

空气经加热器加热后进入流化床底部，穿过分布板与物料接触，使物料呈流态化。母液或粘结剂由压力泵分别送到雾化喷嘴，雾化后涂布于流化颗粒表面或使颗粒相互粘结，经不断地流化、涂布、干燥，颗粒逐渐长大，达到所要求的粒度后从流化床出料口排出。流化、雾化产生的细粉，由旋风分离器回收后，重新加入到喷雾造粒流化床中，成为新颗粒的核心，可实现流化床内颗粒数的平衡。废气通过旋风分离器后，经引风机至水幕除尘器除尘后放空。

After being heated by the heater, the air enters the bottom of the fluidized bed, passes through the distribution plate and contacts the material, making the material fluidized. The mother liquid or binder is sent to the atomizing nozzle by the pressure pump, and after atomization, it is coated on the surface of the fluidized particles or the particles are bonded to each other. After continuous fluidization, coating and drying, the particles gradually grow and are discharged from the fluidized bed outlet after reaching the required particle size. The fine powder produced by fluidization and atomization is recovered by the cyclone separator and re-added to the spray granulation fluidized bed to become the core of the new particles, which can achieve the balance of the number of particles in the fluidized bed. After the exhaust gas passes through the cyclone separator, it is dedusted by the induced draft fan to the water curtain dust collector and then discharged.



► 特点 (Features)

1. 喷雾、造粒、干燥在同一设备中完成，简化了工艺流程，提高了经济效益。
2. 产品粒度可在一定范围内自由调节。
3. 系统全封闭，微负压操作，无粉尘飞扬，操作环境好。
4. 采用特殊气流分布板，既推动物料向前运动，又不致漏失物料。
5. 系统采用多级除尘，提高了产品的可得率，降低了物料损耗。
6. 产品涂布、包衣均匀。

1. Spraying, granulation and drying are completed in the same equipment, which simplifies the process flow and improves economic benefits.
2. The product particle size can be freely adjusted within a certain range.
3. The system is fully enclosed, slightly negative pressure operation, no dust flying, and a good operating environment.
4. The special air flow distribution plate is used to push the material forward without losing the material.
5. The system adopts multi-stage dust removal, which improves the product availability and reduces material loss.
6. The product is evenly coated.



► 技术参数 (Technical Parameters)

参数ITEM	型号TYPE	LZG-10	LZG-20	LZG-30	LZG-50	LZG-60
流化面积 Fluidization Area	m <sup>2</sup>	1	2	3	5	6
水分蒸发量 Water Evaporation	kg/h	200	400	600	1000	1200
风机功率 Fan Power	kw	25	45	70	120	140
产品粒径 Product Particle Size	mm	0.3				