

LG 系列干法制粒机 LG Series Dry Pelletizer

工作原理：

将配制好的，具有一定结晶水的粉料装入料斗，通过送料螺杆的输送和压缩（粉料的密度成倍增加）被推送到两挤压轮上部，这时粉料处于五面受压的条件下，随着挤压辊轮的转动，粉料被送向两挤压辊轮之间的空隙进行强烈的挤压，成为硬条片，硬条片经过整粒系统破碎整粒成理想的颗粒。整个过程是自动进行的。

Operating Principle:

Charge the prepared powder with certain amount of crystal water in the hopper. The powder is propelled to the upper part of the two extrusion wheels as conveyed and compressed (the density of the doubles and redoubles) by the feeding screw. At this point, the powder is under such a condition as being pressed from five directions, with the turning of extrusion rollers, the powder is delivered to the space between the two extrusion rollers for intensive extrusion and turn into hard bars, which are crushed and granulated into ideal grains by the granulating system. The entire process automatically proceeds.

主要特点：

1. 挤压所产生的热量通过制冷机冷却。
2. 挤压辊轮表面经特殊设计加工，防止粉末粘结。侧密封结构以及合理的刮料板结构，能更有效地解决辊轮侧细粉现象。
3. 挤压破碎整粒系统国内首家采用破碎系统加上两对滚筒造粒机构，使送料与出料相协调，并得到理想的颗粒。系统密闭在不锈钢罩壳里，使操作室内无粉尘飞扬。
4. 异形不等距螺杆根据不同的物料需求，配制尼龙螺杆或不锈钢螺杆。
5. 主轴轴承采用油润滑，代替通常的油脂润滑，使得本机在免拆装的情况下加油润滑。
6. 合理的机罩结构使得拆装快捷方便，便于机体内部的清洗，符合 GMP 验证要求。

Main Characteristics:

- 1) Heat proceeding from extrusion is cooled by the cooling water producer.
- 2) Surface of extruding roller is specially designed and processed to avoid caking.
- 3) The side seal structure and the reasonable scraper bar structure may effectively eliminate the phenomenon of fine powder at the side of running roller.
- 4) The structure of crushing system plus two pairs of roller granulating mechanisms employed in the extrusion, crushing and granulating system is a creation in the country which coordinates the feeding and discharging of materials and produces ideals grains. The system is enclosed in a sealed stainless steel housing to avoid flying dust in the operation room.
- 5) For the profiled non-equal-distance screw stem, nylon screw stem or stainless steel screw stem is provided depending on different material requirements.
- 6) Oil lubrication is used for bearings of principal axes instead of the commonly used grease lubrication and thus has enabled the machine to be filled with oil with out the necessity for assembly and disassembly.
- 7) The reasonable housing structure is convenient for a ssembly and disassembly as well as internal cleaning, which is in conformity with GMP verification requirements.

技术参数 Technical Parameters:

参数 ITEM		型号 TYPE		
		LG25	LG50	LG100
压辊尺寸 Roller size	mm	Φ80*25	Φ150*50	Φ200*100
生产能力 Output	kg/h	1 ~ 5	10 ~ 40	30 ~ 100
压轮转速 Roller speed	rpm	0 ~ 18	0 ~ 33	0 ~ 33
螺杆转速 Screw speed	rpm	0 ~ 60		
造粒转速 Granulating speed	rpm	0 ~ 600	0 ~ 377	0 ~ 268
成品粒度 Fineness	mm	0.3-1.5	0.3-1.5	0.3-1.5

