

DLB Series Multi-functional Granulation Coater

General description

Fluid bed coater is a new style granules and powder coating equipment that combines fluid bed spraying technology and coating technology well. Coating of bottom spraying, material flows in order, so we get uniform and continuous film.

Typical applications: pellets, granules, and powder coating, slow and control release coating, framework slow and control releasing capsule.

Lysine granulating and coating, omeprazole slow releasing coating, Chui Feng Tou Gu coating, Chinese Wolfberry moisture-proof coating and etc.

Features

1. Coloring, taste masking odor, moisture-proof, anti-oxidation, water-proof, heat insulation, and separation coating for powder, granules and pellets.
2. Material dispersion is very good, and no adhesion problem;
3. Short distance of fog-drops to material, no spray drying problem. No coating material loss, and productive cost is low;
4. The design of cylinder for accelerator or cone for decelerator can be used for coating of fine granules, small particles, and coarse grains or particles and fine pellets.

Descriptions to the different processes

The series of product employes multiple processes of top spray for granulating, coating; bottom spray for coating, pilling and coating in a fluid bed. It is designed to meet every process requirements by changing the main parts (material container, trolley and sprayer etc.) on the main machine for the same equipment. It is also possible for a machine to contain only one kind of spray process. The machine is suitable for granulating, making pills and coating in Traditional Chinese Medicine, Western medicine, food-stuff, and chemical industry. Each kind of technique has different application range. Meet the requirement of "GMP" by working in a tightly closed clean container.

Top spray: it is widely used for drying, granulating, making instant granules, and coating; The granules are loose, instantly dissolved and the tablets are easily melt. There are common type and stirring type for top spray.

Bottom spray: it is used for coating fine granules and tablets. It is suitable for common film coating, sustained-release, Controlled release coating, enteric coating, fine particle coating.

tangent spray volume													
top spray capacity	Kg/batch	1.5~4.5	5 - 15	10-30	15-60	20-80	230-110	40 - 150	60-220	80 - 300	120-380	150-550	200-750
bottom spray capacity	Kg/batch	1.2-3.6	5 - 12	10-25	15-45	20-65	30-110	40 - 120	60-170	80 - 200	120-280	150-360	200-480
tangent spray capacity	Kg/batch	0.6-2.0	2.4 - 8	4-20	6--48	8-60	12-80	14- 100	20-120	24 - 150	40-200	60-280	100-360
draft fan power	Kw	3.0	4.0	4.5	5.5	7.5	7.5	15.0	15.0	16.5	35.5	42.5	55
auxiliary fan power	Kw		0.55					1.5		1.5	2.2		
electrical heater power	Kw	7.5	9	15	21	26	30.5	35.5	45	51.5	70	100	145
steam consumption	Kg/h		40	65	70	80	90	160	185	210	280	320	350
steam pressure	MPa	0.40 – 0.60											
compressed air consumption	M³/h	0.25	0.35	0.7	0.6	0.9	0.85	1.1	1.3	1.5	1.8	2.0	2.2
compressed air pressure	MPa	0.40 – 0.60											
working temperature	°C	Room Temp.-120(automatically adjusted)											
fed material temperature	°C	automatically adjusted											
machine noise level	dB	<=70											

Note: generally, the equipment of Model DLB-120 and above specifications will be

supplied independently with bottom spray and tangent spray.