BG-E Series Coating Machine

The machine is widely used for coating various tablets, pills, and sweets with organic film, water-soluble film and sugar film, etc. In such fields as pharmaceutical, food, and biological products, etc. And it has such characteristics as good appearance in design, high efficiency, low energy consumption, and small floor area, etc.

Working Principle

The coating machine is mainly used for the coating of pills and tablet by sugar and films in the pharmaceutical industry, it's realizes tablet coating by rotating the pot clockwise. During operation, the tablets are turned, rubbed, and grind under the action of the streamlined deflector agitator, which avoids the falling and collision of the tablets from a high place, eliminates debris and edge knocking, and improves the yield. Spray the coating film or syrup with a spray gun to distribute the film or syrup evenly over the entire tablet. At the same time, in the negative pressure state, the gas distribution pipe will introduce hot air, and the hot air will heat the sugar-coated powder, so that the coating medium sprayed on the surface of the tablet can be dried quickly and evenly, thereby forming a layer of firm, fine, smooth, and uniform on the surface of the tablet.

Performance & Feature

1. The distance between the spray gun and the coating pan and the spray angle can be adjusted, and the air pressure and flow can be adjusted to fully meet the requirements of different situations.
2. The adjustment lever of the spray gun is marked with a scale to record the adjustment position during production.
3. The coating pan adopts a 3.0mm mesh plate, which effectively allows the hot air to pass through the mesh holes, improves the drying efficiency, and at the same time can discharge the powder generated by the collision of the tablets.
4. Negative pressure can be formed inside the device to prevent the operator from blowing out the powder and being inhaled when the operator opens the door.

5. The doors on both sides of the host adopt an openable structure, which can be opened and closed freely, and the cleaning is convenient and quick.
6. Optional one-way and three-way cleaning systems.
7. The pan can option fully perforated or no perforated on central section.
8. It can set the spray rate and spray pattern.

Technical parameters

Model		BG-10E	BG-40E	BG-80E	BG-150E
Load Capacity（kg）		10	40	80	150
Rotation Speed Of Coating Pan（RPM）		1-25	1-21	1-19	1-16
Power Of Main Machine(KW)		0.55	1.1	1.5	2.2
Diameter Of Coating Pan(mm)		500	750	930	1200
Air Exhaust Flow(m^3/h)		1285	3517	5268	7419
Motor Power Of Hot Air Cabinet(Kw)		0.37	0.75	1.1	1.5
Hot Air Flow(m^3/h)		816	1285	1685	2356
Weight Of Main Machine(kg)		200	500	684	1020
Clean Air	Pressure(mpa)	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa
	Air Consumption(m^3/min)	0.3	0.4	0.4	1
Machine Dimension (L×W×H)	Main Machine(mm)	900*620*1800	1000*800*1900	1210*1000*1900	1570*1260*2250
	Hot Air Cabinet(mm)	800*650*1600	900*800*2050	900*800*2050	1000*900*2300
	Air Exhaust Cabinet(mm)	800*650*1600	820*720*1750	900*820*2130	950*950*2245
Steam Heating Power (KW)			9	10	14
Electric Heating Power (KW)		12	24	30	42

Model		BG-260E	BG-400E	BG-600E
Load Capacity（kg）		260	400	600
Rotation Speed Of Coating Pan（RPM）		1-16	1-13	1-12
Power Of Main Machine(KW)		2.2	3	5.5
Diameter Of Coating Pan(mm)		1360	1580	1580
Air Exhaust Flow(m^3/h)		7419	10000	15450
Motor Power Of Hot Air Cabinet(Kw)		2.2	3	5.5
Hot Air Flow(m^3/h)		3517	5200	7419
Weight Of Main Machine(kg)		1300	1562	2800
Clean Air	Pressure(mpa)	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa
	Air Consumption(m^3/min)	1.2	1.5	2
Machine Dimension (L×W×H)	Main Machine(mm)	1730*1440*2470	2000*1670*2660	2000*2277*2660
	Hot Air Cabinet(mm)	1000*900*2300	100*900*2300	1600*1100*2350
	Air Exhaust Cabinet(mm)	1050*1050*2330	1050*1050**2330	1050*1000*2470
Steam Heating Power (KW)		14	18	29
Electric Heating Power (KW)		48	61	79