

Jornen

Film Coating Machine BGW Series



The Film Coating Machine can be used for coating various tablets, pills and sweets with organic film, water-soluble film and sugar film, etc., in pharmaceutical, food and biological industries. It is noted for its high efficiency, low energy consumption and space-saving qualities.

Basic working principle:

The tablets make a continuous, complicated, orbital motion in the closed drum of the film coating machine. The mixed coating is sprayed on the tablets with the spray gun through the action of the peristaltic pump.

Meanwhile, under the action of the Air Exhaust Cabinet (creates negative pressure) and Hot Air Cabinet (supplies hot air), a 100,000 level purification of clean hot air, supplied by the Hot Air Cabinet, penetrates the tablets and they are then exhausted from the bottom of the layers. This allows the coating medium, which is sprayed on the surface of the tablets, to dry rapidly and evenly, thus forming a solid and smooth film surface.

Characteristics:

- 1、 All operations are integrated through HMI, providing reliable and stable performance.
- 2、 Under the action of a streamlined guide plate, the tablets tumble frequently and smoothly, thus preventing them from falling from a high place and colliding. This prevents broken pieces and

chipped edges and improves the qualification rate of the finished products. The narrow surface of the guide plate eliminates the adhesion of coating material on its surface, thus conserving coating material.

3、 An automatic, high efficiency feeding device prevents cross pollution.

4、 Automatic cleaning system: The coating drum equipped in the high pressure washing gun, is used for cleaning the air exhaust outlet and hot air inlet, and can be rotated in automatic and full direction, leaving no recesses or hidden corners where dust can hide (Optional).

5、 Selecting the international top grade spray gun, allows for the flow and angle of sector to be adjusted, providing a no leak, straightforward operation. The spray gun requires a certain level of air pressure for opening, to avoid leaking and wasting of coating materials.

6、 A special mechanical device provides the machine with great flexibility, allowing it to handle even very small batches (coat 20kg pills in 150 type coating machine).

Main Technical Parameters:

Item/Model	BGW300	BGW150	BGW80	BGW40	
Load Capacity	300kg	150kg	80kg	40kg	
Revolutions (R/Min)	1-13RPM	1-16RPM	1-19RPM	1-21RPM	
Major Machine Power	3kw	2.2kw	1.5kw	0.75kw	
Major Machine Size (L×W×H) (mm)	1720*1600*2120	1450*1350*2100	1300*1040*1920	1000*1380*1540	
Size of Coating Drum	1500mm	1280mm	1006mm	825mm	
Air Exhaust Motor Power	7.5kw	5.5kw	3kw	2.2kw	
Hot air Motor Power	2.2kw	1.5kw	1.1kw	0.75kw	
Feed Port Diameter.	475mm	458mm	380mm	340mm	
Major Machine Weight	1200kg	1000kg	800kg	550kg	
Size of Hot Air Cabinet (mm)	900*800*2280	970*1150*2170	1040*920*2170	900*800*1500	
Size of Exhaust Cabinet (mm)	1050*1050*2100	1040*1340*2060	900*820*1850		
Air	Pressure	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa
	Air Consumption	1.1m3/min	0.7m3/min	0.35m3/min	0.15m3/min