



BGB-C Series High-efficiency Coating Machine



Usage:

The BGB-C Series High-efficiency Coating Machine is mainly used in pharmaceutical and food industries. It is a high-efficiency, energysaving, safe, clean and mechatronics equipment for coating tablets, pills and candies with organic film, water soluble film, slow and controlled release film and sugar film etc., which conforms to the requirement of GMP.

Working principle:

The tablet cores to be coated make continuous complicated orbital motion within the closed rotating drum under the action of a streamline guide plate. During the motion, coating medium automatically sprays according to the technological process and rational technological parameters, at the same time hot air is supplied under a negative pressure. The hot air penetrates through the tablet core layers and is discharged from the bottom of the layers, so that the coating medium sprayed on the surface of tablet cores will dry rapidly and evenly, thus forming a solid and smooth surface film.

Features:

- The control system consist of PLC and HMI, the design is reasonable and programming is flexible, which are adapt to the different needs of pharmaceutical technology, thus featuring reliable work, stable performance and conforming to the requirement of GMP.
- Under the action of the agitator of streamline guide plate, the tablet cores are tumbling smoothly and exchanging frequently, thus eliminating the phenomenon of tablet cores falling from a high place and the collide , so that solve the problems of broken pieces and chipped edge, and also improve the rate of finished products. The narrow surface of the guide plate

eliminates the adhesion of coating material on its surface, thus saving the coating material and improving the quality of medicine.

- The peristaltic pump with constant pressure and variable eliminates the need for a return pipe. The turning radius of the drum varies with the pressure. The slurry output and the quantity of slurry sprayed are balanced automatically, thereby stabilizing the effect of atomization, simplifying the spray system, preventing the spray gun from plugging-up, and saving the coating material, moreover the cleaning is simple, without dead corner.

- The spray gun specially designed for the film coating machine with even atomization and large coverage of spraying. The universal adjustable spray head makes the cleaning mechanism of spray gun unaffected by charge quantity, so that film coating can proceed continuously, thus reducing the coating time and saving coating material.

- Control and display the negative pressure in coating pan.

- Control and display supply air speed.

- Control and display the temperature.

- Preventing the spray gun from plugging up.

- The memory and the print function

- The above function realized display and control of technical parameters, It can write SOP operation and guide the operation by quantitative index to guarantee the same quality of each batch, which completely conforms to the requirement of GMP.

Main technical parameters:

Model	BGB-600C	BGB-350C	BGB-150C	BGB-75C	BGB-10C
Production capacity (kg/run)	600	350	150	75	10
Speed-adjusting range of coating drum (rpm)	2-10	2-11	2-15	4-19	6-30
Motor power of main machine(kW)	5.5	4.0	2.2	1.1	0.55
Regulating range of hot air temperature(°C)	Normal temperature~80°C				
Filtration accuracy of hot air (μm)	0.5μm(100000grade)				
Motor power of hot air machine(kW)	5.5	2.2	1.1	1.1	0.75
Motor power of exhaust machine(kW)	15	7.5	5.5	3	2.2
Motor power of vibration dust-cleaning device(kW)	0.37	0.37	0.37	0.37	0.37
Motor power of peristalsis pump(kW)	0.18	0.18	0.18	0.18	0.18
Overall dimension of main machine(LxWxH)(mm)	2000x	2000x	1570x	1350x	1100x
	2240x	1560x	1260x	1010x	750x
	2330	2300	2000	1630	1540
Weight of main machine(kg)	2500	1650	900	550	380