

## Lab Film Coater BG-5H



BG-5H used for coating various tablets, pills and bubble candies with organic film, water-soluble film and sugar film, etc. And it has such characteristics as high efficiency, low energy consumption and small floor area, etc. And it can be widely used for coating various tablets, pills and sweets with organic film, water-soluble film and sugar film etc in such fields as of pharmaceutical, food and biological line.

**Basic Working Principle:** The tablets make complicated and constant track movement with easy and smooth turning and frequent exchanging in the clean and closed rotational cylinder of the film coating machine. And it can automatically spray coating medium according to the process flow and reasonable process parameters. The hot air exhausted through the bottom of the tablets under the effect of air exhaust and negative pressure so as to make coating medium dry quickly on the surfaces of the tablets and form a firm, fine and close and smooth surface film.

**Main Machine:** During run of film coating in the main machine, it shows such features as free dust flyoff, syrup splash, operation condition improvement, little cross contamination to tablets, simple coating process, shortening coating time as well as high production efficiency etc.

Adopts a new-type micro-computer PLC, by which temperature and negative pressure control system are displayed on the touch screen, with such characteristics as program ability, automatic adjustment of negative pressure and air flow, automation of process parameters, making accurate production of various batches of products with the same technical parameter. It make lead at home in data storage and printing system, by which process parameter and process flow of each batch of production can be accurately recorded with a printer as requested from users. The explosion-proof motor drives the drum to rotate in the clockwise direction through the cycloidal pinwheel, It's attached with a cleaning system and equipped an are outlet adjustment apparatus, with which a few medicines can be coated.

## Performance and Characteristics:

1. With PLC module, all operations such as hot air temperature setting and control, revolutions of the drum adjustment, automatic control and display of negative pressure etc can be set by pushing the touch key on the computer-controlled panel fully sealed with slight touch film interface.
2. The machine is free to clean, with such characteristics as reliable and stable performance. The streamline guiding-type mixer drives tablets to make easy and smooth rotation without fragment and chipped edge, which improves the yield. The guiding sheet has a narrow surface, to which no dressing can be stuck, economization on dressing and improving the quality of finished products.
3. The constant-pressure variable crawler pump features the revolution radius of the roller subject to pressure, automatic control of output syrup amounts and sprayed syrup amounts, stabilization of atomization, simplify of spraying system, economization on dressing, easy to fully clean.
4. The specially designed imported pray gun features ease in operation and control technological requirements, uniform density and particle size, uniform atomization and large spray area, practical to adjust flow, free leakage and blockage, angle and sector. The gun can be in operation until its head keeps in the range of 0.29Mpa to 0.39Mpa. Until now, it has been favourably reviewed from users at home and abroad.

## Technical parameters

Model			BG-5H	
Diameter and capacity of coating roller			Φ480	5 L
			Φ380	3L
			Φ300	1 L
Speed adjustable range of coating roller (rpm)			0-30	
Coating roller motor power (kW)			0.37	
Air heater motor power (kW)			0.25	
Air heater flow m <sup>3</sup> /h			504	
Tempering range of hot blast (degrees centigrade)			Room temperature: 80 degrees centigrade	
Exhaust fan motor power (kW)			1.1	
Exhaust fan flow m <sup>3</sup> /h			2500	
Peristaltic pump power (kW)			0.03	
Outline dimension (mm)			1250×900×1700	
Weight Kg			750	
External conditions	Clean air	Pressure Mpa	≥0.4	
		Air consumption m <sup>3</sup> /min	0.6	
	Water source	Pressure Mpa	≥0.15	
			Not less than 0.15	
	Electric heating	Power source kW	Three-phase five line 10	