

## ***BG-150D Automatic Pharmaceutical Film Coating Machine for Tablet***



This coating machine is widely used in fields of pharmaceutical industry, foodstuff, biographical industry and so on. It can coat tablets, pills and sugars with organic film, water-soluble film or sugar coat (which can fulfill controlled or sustained release of drugs). The machine also features beautiful model, high efficiency, low energy-consumption and small size, this machine acquires distinct advantages:

1. PLC and temperature module controlling system with the touch screen produced by Siemens Germany are applied to provide picture displaying, convenient operation, energy-efficiency, cleanliness and safety, and convenient cleaning, which meets the standard of GMP.
2. Components, which drugs are exposed to, such as high efficiency film coating mainframe, high efficiency hot air filter, dust removal fan and spray device, are all made of imported stainless steel of good quality.
3. The procedures are all controlled by PLC touch screen, automatically or manually.
4. Coating is processed in totally closed environment to prevent dust and slurry from spilling. The surface of box is polished and its light pollution is eliminated.
5. The driver system applies explosion-proof decelerating motor and chain-wheel transmission device, which can make frequency conversion continuously variable.
6. High efficiency hot air filter can directly capture air from outside, heat the air after primary, intermediated and high efficiency filter, and then provide the air for the mainframe. The air can meet the standard of 100,000 class cleanliness. Dust removal fan can exhaust air to the outside to avoid the influence on central air-conditioning and to save energy.

7. Spray gun is the WA-101 spray gun imported from Japan of good atomization, non-clogging nozzle, adjustable spray volume and angle, and simple structure which is convenient to clean.

Currently, the machine has relatively large market and good prospect at home. It has been applied by lots of factories for many times and passed the inspection of GMP successfully.

During coating, the machine ensures no flying dust or splashing liquid. In this case, it can improve working environment and avoid cross contamination. Besides, the machine can coat tablets through simple techniques so that coating time is drastically shortened and efficiency is much higher. It adopts new micro-computer temperature and negative pressure control system, touch screen for displaying and control and is programmable. These devices can work together to automatically adjust flow, negative pressure, air input, air exhaust, temperature, rotating speed and some other technical parameters. They also make SOP edition digital so that the machine can produce in batches in the same technical parameters. Therefore, there is nearly no difference between products of different batches. The machine also additionally functions to store and print data. Its tens of program for automatic coating can be modified at any time during operation. In addition, printing device can be customized to record technical parameters and process flow of every batch. Users can also input batch number or drug code as needed.

### **Performance and features**

- 1) Automatic online cleaning system (optional): high-pressure spraying guns are installed at both internal and external coating pot and cleaning sprayers at air exhaust port and hot air port. They can rotate in 360° for no dead corners, more conveniently and simpler cleaning.
- 2) High-end spraying gun conforms to GMP and coating techniques strictly. It's a special spraying gun made of stainless steel. It can be used simply, dismantled without other tools and controlled flexibly. It features no leak, no clog, controllable flow and angle, uniform atomization, large spraying area and excipients saving.
- 3) The machine also includes a mechanical device for its coating a small amount of material in a large pot. For example, the 150 coating machine can coat at least 20-40 uncoated tablets. Through the device adjustment, the machine can coat smaller amount of uncoated tablets in large pot without wasting excipients and widen the machine's application.

## Technical Parameters

Model		BG-150D
Production quantity		150Kg every batch
Speed range of film coating roller		2-20 r/min
Diameter of material inlet		480mm
Diameter of film coating roller		1200mm
Diameter of roller mesh		3mm
Motor power of mainframe		2.2KW (The mainframe is totally closed)
Air source		supplied by the user
Dimensions		1700*1300*2100 (L*W*H)
PLC	It can make the frequency conversion continuously variable and set, adjust, display and memorize the technical parameters, operation speed, air inlet speed, spray force and flow during the operation of the complete machine.	
Hot air cabinet	Motor power of hot air filter	1.5KW (explosion-proof)
	Filter precision	0.5μm
	Filter cleanliness	100,000 class
	Air inlet speed	3517m <sup>3</sup> /h
	Hot air temperature	40~80°C (adjustable)
	Dimensions	780*1050*2100mm (L*W*H)
	Weight	400Kg
Dust removal cabinet	Motor power dust removal fan	5.5KW (explosion-proof)
	Air outlet speed	7419m <sup>3</sup> /h
	Surface material	Matt stainless steel
	Dimensions	930*930*2000mm (L*W*H)
	Weight	500Kg
Spray gun		Imported spray gun with uniform atomization, adjustable spray shape, position and angle
Motor power of peristaltic pump		0.25KW
Peristaltic pump speed		100-700 r/min
Mainframe weight		900Kg