



High-efficiency film coating machine BG-E Series



Descriptions

It can be widely used for coating various tablets, pills and sweets with organic film, water-soluble film and sugar film etc. Use:

This product was developed on the imported equipment in 1992 and had been placed on the list of the Sin-tech Spark Project of Zhejiang. In 1995, this product passed the provincial level technical appraisal of new products, was awarded the Wenzhou Scientific and Technological Improvement Award and also recommended as the Brand-new and Quality High-tech Product of Zhejiang and National New Product of 1995. In July 2002, it passed GMP appraisal by State Economy & Trade Committee and the certification of EU. Until now it has been exported to such regions as Europe, Australia, South America, Middle East, Middle Asia, south Asia and Southeast Asia, 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 products etc. And it has such characteristics as good appearance in design, high efficiency, low energy consumption and small floor area, etc.

During the film coating process in the major machine, it shows such feature dust fly off, no syrup splash, operation condition improvement, little cross contamination to tablets, simple coating process, coating time shortening as well as high production efficiency etc. There adopted a new & mini-type computer and a touch screen on which temperature and negative pressure control system are displayed with such functions programmability, automatic adjusting such a majority of process parameters flow, negative pressure, intake, exhaust, temperature, rotational velocity the compile of SOP digitizing, making no difference between various batches products with the same technical parameter. It adds data storage and printing functions with more than 14 program film coating, which are modified at any time in the run. The printing device finished as to the customers requirement so that the process parameters process flow of each batch of production can be accurately recorded and domestic advanced level. The users may write batch numbers and the codes products on their needs.

Performance and Characteristics

1. The coating boiler equipped in the high pressure spray gun, there set a cleaning sprayer at the air exhaust exit and hot air mouth, which can be rotated in automatic and full direction ,without dead corner more convenient to clean. (Option)
2. Select the imported spray gun. It's convenient to operate and easy to master and flexible controlled technological requirement. The spray gun head requirement must keep in the range of 0.29 Mpa to 0.39 Mpa. Angle and sector can be adjustable , uniform density and particle in spray pressure and 0.4-0.5Mpa in atomization pressure that avoid the dropping leakage and blockage phenomenon of size, uniform atomization and large spray area, practical to adjust flow, free leakage and blockage, angle and sector.
3. Film coating machine contains the mechanical device of cauldron wrapping little material can coat at least 20~40kg plain pills in 150 type coating machine, regulate through it inherent machinery, make a small mount of medium coat in cauldron and will not cause the wasted of dressing and greatly improve the scope of appliance.

Basic Working Principle

The tablets in drum make complicated and constant track movement with easy and smooth turn frequent exchanging in a clean and closed drum of the film coating machine. The coating mixed round in the mixing drum are sprayed on tablets through the spray gun at the Inlet un action of the peristaltic pump. Meanwhile under the action of air exhaust and negative pressure 100,000 clean hot air supplied by the air exhaust cabinet is exhausted from the fan at the sieve meshes through tablets. So the escorting mediums on the surface of tablets get dry forming a coat of firm, fine and smooth film. The whole process is finished under the control of PLC.

Technical Parameter

Item/Model	BG400E	BG150E	BG80E	BG-40E	BG10E	
Load capacity	400Kg	150 Kg	80 Kg	40 Kg	10 Kg	
Rotation speed of coating pan	1-13RPM	1-16rpm	1-19RPM	1-21RPM	1-25RPM	
Power of main machine	3 Kw	2.2kw	1.5 Kw	1.1 Kw	0.55 Kw	
Diameter of coating pan	Φ1580mm	φ1200mm	Φ930mm	Φ750mm	Φ500mm	
Motor of air exhaust cabinet	7.5 Kw	5.5kw	3 Kw	2.2 Kw	0.75 Kw	
Air exhaust flow	10000 m³/h	7419m³/h	5268 m³/h	3517 m³/h	1285 m³/h	
Motor power of hot air cabinet	2.2 Kw	1.5kw	1.1 Kw	0.75 Kw	0.37 Kw	
Hot air flow	3517 m³/h	2356m³/h	1685 m³/h	1285 m³/h	816 m³/h	
Weight of main machine	1000 Kg	850 Kg	600 Kg	500 Kg	200 Kg	
Clean air	Pressure	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	≥0.4Mpa	
	Air consumption	1.5 m³/min	0.7m³/min	0.35 m³/min	0.2 m³/min	
Machine dimension (L×W×H)	Main machine	2050×1670×2360	1570×1260×2030	1210×1000×1730	1000×800×1900	900×620×1800 600×530×1600
	Hot air cabinet	900×800×2260	900×800×1935	900×800×19350	900×800×1935	
	Air exhaust cabinet	1050×1050×2000	950×950×1950	820×720×1750	820×720×1750	