

BG series High Efficiency Intelligent Coating Machine



The machine has been included in the "Zhejiang Science and Technology Spark Project" has passed the provincial new product technology appraisal, was recommended as "Zhejiang famous technology products", was listed as "national key new products" by the Ministry of Science and Technology, was rated "Wenzhou famous brand products" and has passed the CE standard certification. This machine is used in the fields of pharmacy, food, biological products, etc. It can coating various tablets, pills, candy with organic film, water-soluble film (slow and controlled release effect in medicine) and sugar coating. The machine has the advantages of beautiful appearance, high efficiency low energy consumption and small floor space etc. During the film coating process in the major machine, it shows such features as blockage of floating dust and syrup splash, operation condition improvement, little cross contamination to tablets, simple coating process, coating time shortening as well as high production efficiency etc. It adopted a new mini-type computer and a touchscreen on which temperature and negative pressure control system are displayed with such programmable functions. automatic adjusting a majority of process parameters as flow, negative pressure, intake, exhaust, temperature, rotational velocity the compile of SOP digitizing, Produce different batches of materials with the same technical parameters to ensure the coating quality of each batch of materials. It adds data storage and printing functions with more than 14 program of film coating, which are modified at any time in the run. The printing device can be equipped the customers' requirement so that the process parameters and process flow of each batch of production can be accurately recorded. The users can input batch numbers and drug codes according to their requests.

Basic Working Principle:

The tablets in drum make complicated and constant track movement with easy and smooth turns, frequent exchanging in a clean and closed drum of the film coating machine. The coating mediums in the mixing drum are sprayed on ablest through the spray gun under the action of the peristaltic pump. Meanwhile under the action of air exhaust and negative pressure, 100000 clean hot air supplied by the hot air cabinets exhausted from the bottom meshes through tablets. So these coating mediums on the surface of tablets get dried and form a firm, fine and smooth coated film. The whole process is finished under the control of PLC.

Technical Parameters

Model		BG1000E	BG600E	BG400E
Items				
Load capacity		1000L	600L	400L
Rotation speed of coating pan (R/M)		0-12RPM	1-12RPM	1-13RPM
Power of main machine		7.5kw	5.5kw	3kw
Diameter of coating pan		Φ1580mm	Φ1580mm	Φ1580mm
Motor of air exhaust cabinet		22kw	11kw	7.5kw
Air exhaust flow		20000m^3/h	15450m^3/h	10000m^3/h
Motor power of hot air cabinet		7.5kw	5.5kw	3kw
Hot air motor air flow		10000m^3/h	7419m^3/h	5200m^3/h
Weight of main machine		4000kg	2800kg	1562kg
Clean air	Pressure	>=0.4Mpa	>=0.4Mpa	>=0.4Mpa
	Air consumption	3.5m^3/min	2m^3/min	1.5m^3/min
Machine dimension	Main machine	2500*3100*2800mm	2000*2277*2660mm	2000*1670*2660mm
	Hot air cabinet	1700*1200*2600mm	1600*1100*2350mm	1000*900*2300mm
	Air exhaust cabinet	3000*1115*2400mm	1050*1000*2470mm	1050*1050*2330mm
Steam heating power		40Kw	29Kw	18Kw
Electric heating power		120Kw	79Kw	61Kw

Model		BG260E	BG150E	BG80E
Items				
Load capacity		260L	150L	80L
Rotation speed of coating pan (R/M)		1-16RPM	1-16RPM	1-19RPM
Power of main machine		2.2kw	2.2kw	1.5kw
Diameter of coating pan		Φ1360mm	Φ1200mm	Φ930mm
Motor of air exhaust cabinet		5.5kw	5.5kw	3kw
Air exhaust flow		7419m^3/h	7419m^3/h	5268m^3/h
Motor power of hot air cabinet		2.2kw	1.5kw	1.1kw
Hot air motor air flow		3517m^3/h	2356m^3/h	1685m^3/h
Weight of main machine		1300kg	1020kg	684kg
Clean air	Pressure	>=0.4Mpa	>=0.4Mpa	>=0.4Mpa
	Air comsumption	1.2m^3/min	1m^3/min	0.4m^3/min
Machine dimension	Main machine	1730*1440*2470mm	1570*1260*2250mm	1210*1000*1900m
	Hot air cabinet	1000*900*2300mm	1000*900*2300mm	900*800*2050mm
	Air exhaust cabinet	1050*1050*2330mm	950*950*2245mm	900*820*2130mm
Steam heating power		14Kw	14Kw	10Kw
Electric heating power		48Kw	42Kw	30Kw

Model		BG40E	BG10E
Items			
Load capacity		40L	10L
Rotation speed of coating pan (R/M)		1-21RPM	1-25RPM
Power of main machine		1.1kw	0.55kw
Diameter of coating pan		Φ750mm	Φ500mm
Motor of air exhaust cabinet		2.2kw	0.75kw
Air exhaust flow		3517m^3/h	1285m^3/h
Motor power of hot air cabinet		0.75kw	0.37kw
Hot air motor air flow		1285m^3/h	816m^3/h
Weight of main machine		500kg	200kg
Clean air	Pressure	>=0.4Mpa	>=0.4Mpa
	Air comsumption	0.4m^3/min	0.3m^3/min
Machine dimension	Main machine	1000*800*1900mm	900*620*1800mm
	Hot air cabinet	900*800*2050mm	800*650*1600mm
	Air exhaust cabinet	820*720*1750mm	
Steam heating power		9Kw	
Electric heating power		24Kw	12Kw