

YC-S-series Tablet Coating Machine



Tablet coating machine forms a thin film protective layer on the surface of tablets, protecting drugs from external environmental influences and extending their shelf life. It not only improves the taste and appearance of drugs but also enhances their stability and dissolution rate. Tablet coating machines are used for various functional outer layers such as film coating, enteric coating, and sugar coating.

Principles of the Super Coater

1. Film / Enteric Coating:

Pump the solution to a spray gun then spray onto the tablets in the tumbling pan and continuous dry by heated air to form a uniform and a thin layer on the tablets surface.

2. Sugar Coating:

The syrup spray to the tablets by a metring pump, then through the repeated process of tumbling, cooling and drying to form a thick sugar layer in order to protect the tablet.

Features

1. Comply with regulations of cGMP, PIC/S GMP, FDA
2. Coating pan punch hole design: High drying efficiency
3. Stable control of air inlet/outlet temperature, humidity, flow, pressure: Minimum waste of coating material.
4. Aqueous or organic solvent are applicable (Ex-Proof type)
5. Well uniformity coating for functional coating: including control release coating, film coating, micro tablet coating
6. High yield rate: Un-even coloring, broken, or twinning tablets can be less than 0.2%.
7. Stable control of critical parameters
 - a. temperature control: Setting Value $\pm 2^{\circ}\text{C}$ (With optional air damper: $\pm 1^{\circ}\text{C}$)

- b. Humidity control: Air inlet moisture can be controlled as 9g/Kg \pm 1g/Kg. (Chilled water: inlet 7°C, return 12°C)
- c. Inlet air flow can be controlled within \pm 5% in 30~100%.
- d. Differential pressure of coating pan can be set and controlled with accuracy \pm 5%
- e. coating spray rate can be set and controlled with accuracy \pm 5%
- 8. Use of Schlick spray gun, better atomization (optional)
- 9. Use of Donaldson dry dust collector: for environment protection (optional)
- 10. Air handling unit consists of pre filter, medium filter, and HEPA filter to assure processing air cleanliness.
- 11. A cantilever design of the spray guns rack is easy for operation (A slide track design is for the large model)
- 12. Automatic discharge device: complete discharge within 10 mins

Applications

Pharmaceutical: For tablets film coating, enteric coating, sugar coating and control released coating.

Food: Film coating of the agriculture product and healthy food, sugar coating of chewing gum and candy.

Seed: For insect protection layer or nutrient.

Specification

Model	Loading	Working capacity	Working capacity
	volume	(B.D. 0.7)	(B.D. 0.8)
	L	Kg/Batch	Kg/Batch
YC-SC-30	1.2-2.0	0.8-1.4	0.9-1.6
YC-SC-40	3.3-5.6	2.5-3.5	2.5-4.5
YC-SC-50	5.8-9.5	4.0-6.5	4.5-7.5
YC-SC-60	11-18	7.5-12	9-14
YC-SC-70	20-33	14-23	16-26
YC-SC-80	26-43	18-30	21-34
YC-SC-100	53-88	36-60	42-70
YC-SC-125	116-194	80-135	90-150
YC-SC-150	216-360	150-250	170-280
YC-SC-170	300-500	210-350	240-400
YC-SC-190	432-720	300-500	340-570
YC-SC-200	650-1070	450-750	500-800