

Automatic Tablet Coater



Ideal for automated Tablet Coating mainly used in Pharmaceutical and Food Industries confirming to the requirement of cGMP. It is a energy saving, safe and clean equipment for Film and Sugar Coating of Tablets, Pills and Candies with Organic Film, Aqueous Coating and Sugar Film etc.



Process :

The unique perforated pan design utilizes a totally enclosed, highly efficient air flow system for maximum drying uniformity and minimum process time. The tablet to be coated make continuous complicated orbital motion the closed rotating pan under the action of a streamline of Baffles. During the motion coating medium automatically sprays according to the technological process parameters, at the same time hot filtered air supplied under a negative pressure. The hot air penetrates through the tablets core layers and is discharged from the bottom of the layers, so that the coating medium sprayed on the surface of the tablet cores will dry rapidly and evenly, thus forming a solid and smooth surface film on tablet. The whole process is finished automatic by PLC Controls with touch screen Interface.



Salient Features:

- cGMP model, with all contact parts AISI 316 & non contact parts AISI 304.
- Fully automatic coating process by PLC Controls with HMI Touch Screen.
- Minimum batch time & Power consumption.
- Excellent mixing and tumbling by special design pan.
- Atomized spray gun, adjustable spray gun arm, high precise flow peristaltic pump, solution holding tank with stirrer.
- Inlet air and exhaust air flow controls through AC frequency drive of both blower.
- Tablet discharging facility through the special diverter assembly.

Optional Features:

- Solid Pan for confectionery products.
- Wet Scrubber.
- Solution holding tank insulated with heating.
- De-humidifier.
- Inlet HEPA filters with differential pressure gauge.
- SCADA connectivity.

Technical Specification:

| Model | DAC-36 | DAC-48 | DAC-60 |
|--------------------------------|----------------------|---------|-----------|
| Pan Diameter | 900 mm | 1200 mm | 1500 mm |
| Approx Working Capacity | 75 | 150 | 300 |
| Pan Speed RPM | 2 to 10 | 2 to 10 | 2 to 10 |
| Main Drive Motor HP/kW | 2.0/1.5 | 3.0/2.2 | 5.0/3.7 |
| Inlet Air Blower Motor HP/kW | 5.0/3.7 | 5.0/3.7 | 10.0/7.5 |
| Inlet air cfm | 1700 | 2000 | 4200 |
| Exhaust Air Blower Motor HP/kW | 5.0/3.7 | 7.5/5.6 | 25.0/18.6 |
| Exhaust air cfm | 2000 | 2600 | 7000 |
| Electrical heaters kW | 40 | 54 | 84 |
| Minimum Steam Pressure | 4 Kg/cm ² | | |
| Compressed Air Pressure | 6 Kg/cm ² | | |

Dumra MACHINES

Parshva Industrial Park, Plot No. 25, S. No. 89/1, Near Weener Empire, New GIDC, Umbergaon - 396170, Gujarat, India.
Tel.: (+91) 0260 2565953/2565954, Email: dumra@dumramachines.com / dumramachines@vsnl.net