



PHARMA MACHINERIES



AUTOMATIC COATING SYSTEM (AUTOCOATER)

RIDDHI PHARMA MACHINERY LTD.

Manufacturer & Exporters of Pharmaceutical Machineries

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RIDDHI AUTOMATIC TABLET COATING SYSTEM

Riddhi Tablet Coating System is used for film, aqueous, and sugar coating. Quality precision and uniformity of spraying is possible through PLC control. The spraying with spraying guns, Inlet Air Handling, Outlet Scrubber, Peristaltic Pump and Solution tank, temperature and humidity are all controlled by PLC to give a uniform coating pattern.

The Riddhi Tablet Coating System has been designed to carry out most perfect and uniform coating with the least intervention by the operator. Riddhi Tablet Coating System is designed as a free standing, totally enclosed unit, with in built WIP system. The sides, back and front doors are provided for easy cleaning and maintenance.

The unique perforated coating pan design utilize a totally enclosed, highly efficient air flow system for maximum drying uniformity and minimum process time. Process air flow through the inlet duct and is directed down and through product bed. The air exits under negative pressure through the exhaust plenum located under the tablet bed. Fully automated rotary valves on inlet and outlet ducts located at technical area controls the quantum of inlet and outlet air as per batch size.

Spraying

Matched solution pump and spray gun optimize the coating process. Highly sophisticated, accurate and precise positive displacement / self priming peristaltic pump ensures the process stability and quality of the end product. All SS spray gun chock less in operation with automatic nozzle cleaning system, adjustable spray pattern and atomization control make the application of aqueous, organic solvent based film coating, eudragit coating and sugar solution coating on the tablet enables quick weight built up and uniform coating.

SALIENT FEATURES

- Σ Design as per stringent GMP requirements
- Σ Electrical or Steam heating
- Σ Option of Fully automated PLC control
- Σ Complete stainless steel construction
- Σ Air handling systems totally modular in construction
- Σ Optional control of air volumes done via Frequency Drives which saves energy and enables complete control over the process
- Σ Peristaltic Pumping System predominantly used for precise delivery of the coating medium to the atomizing spray nozzle
- Σ Unique design and special seals render safe operations, in case of coating tough materials
- Σ Offers total flexibility, deliver aqueous and organic based coating materials using the above system

TECHNICAL SPECIFICATION

Technical specification	660mm (24")	940mm (37")	1070mm (42")	1220 mm (40")	1525mm (60")	1675mm (66")
Working Capacity-KG (Considering bulk density 0.97 gm/cc)	20-30	40-70	80-120	80-150	200-350	325-380
Pan Mouth Diameter –MM	250	400	400	480	520	550
Pan Speed – RPM	5-15	2-15	2-15	2-15	2-12	2-10
Main Drive FLP Motor – HP	1.5	2	3	5	7.5	7.5
Hot Air Inlet Blower – HP	2	3	5	5	7.5	7.5
Hot Air Fan Capacity – CFM	1000	1300	1300	2500	4500	5500
Steam Consumption in (Kg/Hr) At Pressure (Bar)	15-20 2-4	40-60 2-4	50-70 2-4	80-100 2-4	120-140 2-4	16-180 2-4
Compressed air (CFM) At pressure 6 (Bar)	20	30	30	55	95	110