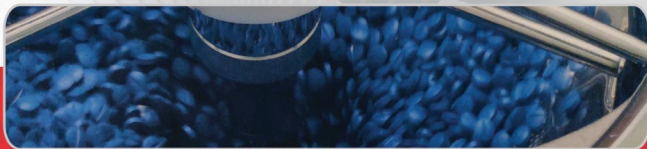




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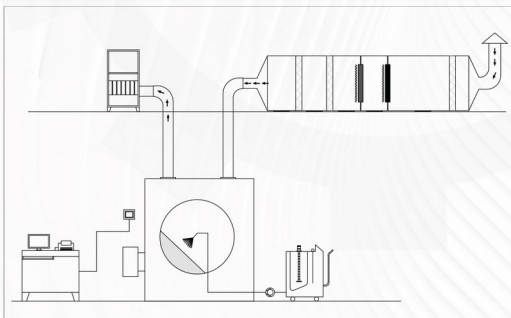
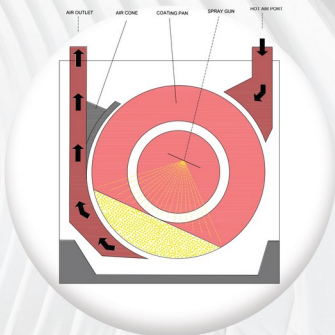
# AUTO COATERS



## basic working principle

Chemiplant's Auto Coater has been designed to carry out most Smooth and Uniform Coating without Damaging the Tablets and minimum intervention of the operator.

Chemiplant's Auto Coaters fulfill the demand of air capacity, coating composition and efficiency of the Equipments. The unique perforated coating pan design utilizes a totally enclosed, highly efficient air flow system for maximum drying uniformity and minimum process time.



Tablets Pellets are allowed to roll (smooth rolling) while a coating medium is sprayed with atomization using - engineered spray nozzle and a positive displacement Pump. Hot air properly filtered with setable temperature and humidity, is bubbled through rolling bed of Tablets/Pellets evaporating the liquid and ensuring even and smooth coat of solids from spray solution. A proper heat and mass balance is necessary for coating quality with energy conservation

The Regulations of the air provides controlled drying and extraction rates  
Process air flows through the inlet duct which is directed down through the 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.

The interiors of Auto Coaters are accessible through leak proof doors provided on rear, right and left sides.

# Auto Coater Process

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## Film Coating:

Film Coating system comprising of chokeless, Spray Gun & compact Peristaltic Pump for constant flow rate.

## Sugar Coating:

Sugar coating system comprising of airless Spray Gun, Pneumatic high pressure piston type pump with recirculation system. The advance integrated fully automatic PLC programed CIP system designed for fast & effective cleaning to avoid cross contamination.

## Spraying:

To optimize the coating process, Matching solution pump and four point all SS316 air borne spray guns are used. The process stability and quality of the end product is ensured with Highly sophisticated, accurate and precise positive displacement / self priming peristaltic pumps from UK / USA based Watson-Marlow/Master Flex.

All SS spray guns are choke less in operation with automatic nozzle cleaning system, adjustable spray width and automation controls make them suitable for the application of aqueous, organic solvent based film coating, sugar solution coating can be done in the same machine with bypass air duct, sugar solution dripping nozzles and jacketed solution tank

## Variants:

- Interchangeable Pan
- Solid Pan for confectionery products.
- Wet Scrubber
- Dry Dust Collector
- Dehumidifier
- Steam or Electric Heat Exchanger
- Tablets charging by bin loader
- SCADA Connectivity



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## CIP / WIP System

The machine is equipped with multi wash system like cold water, hot water, detergent wash and air purging. High - pressure multi stage pump is provided to give desired pressure to water for effective cleaning with auto drain system

## Supply Air Handling Unit

Modular design, Thermally Insulated Customized layout consists of

- Air Filters including HEPA Dehumidification chilling coil
- Centrifugal fan type Blower
- Humidification by means indirect/ direct steam injection
- Heating Battery using Steam, Electric or superheated water

## Exhaust with Filter Assembly

- Dry Filter Units connected to the blower
- Centrifugal Fan Type Blower
- Wet Scrubber Units

## Product & Load Discharge

To Lift the Tablet container (IPC), Mobile Lifter cum Tilter is available and same are tilted on a chute which feeds the tablet to the pan. These mobile units are suitably designed for load capacity and charging height.

By quick fitting system, the easy to use device is connected to the pan and discharge is achieved by rotating the pan.



## Control System for Manual & Fully Automated Operation

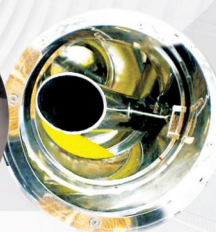
To meet the requirement of process Chemiplant has automated PLC /LCD based process control system with necessary hardware and software. System Control, Monitoring, Processing, Data Acquisition and Feedback are included in Control parameters.

Full Security is provided and Product recipe can be easily added or deleted with proper password access. According to the Customer's requirements, Chemiplant customizes the operator interface graphic

# Auto Coater

## features

- Minimum Batch Time & Power Consumption.
- Compact portable design with fully perforated mirror finished pans.
- High batch size variability from approx. 35 to 100% filling volume.
- Easy discharge by changing of nozzles & an efficient air system.
- In-Built exhaust filtration, pump & WIP system
- Low tablet bed thickness for Careful product movement.
- Rapid and simple cleaning
- High number of nozzles and an efficient air system provided for faster processing.
- Designed to achieve all cGMP compliance.
- CE declaration of conformity

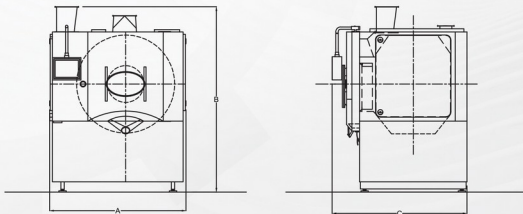






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## TECHNICAL DRAWING TABLET COATING EQUIPMENT



## TECHNICAL SPECIFICATIONS

Model	SAD-10	SAD-40	SAD-80	SAD-150	SAD-300	SAD-400	SAD-600	SAD-1000
Load Capacity	10kg	40kg	80kg	150kg	300kg	400kg	600kg	1000kg
Revolutions (r/min)	2-20rpm	2-20rpm	2-20rpm	2-15rpm	2-12rpm	2-12rpm	2-8rpm	2-8rpm
Machine Power	0.5 HP	1 HP	1 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP
Dimensions Machine (L x W x H)	875mm x 675mm x 1375mm	1075mm x 825mm x 1445mm	1345mm x 1025mm x 1675mm	1705mm x 1295mm x 2005mm	2000mm x 1620mm x 2310mm	2450mm x 1650mm x 2750mm	2480mm x 1950mm x 2400mm	2750mm x 2270mm x 2700mm
Diameter of Coating Drum	*500mm	*780mm	*930mm	*1200mm	*1500mm	*1580mm	*1580mm	*1800mm
Power of Air Exhaust Cabinet Motor	2 HP	3 HP	5 HP	5 HP	5 HP	10 HP	15 HP	20 HP
Power of Hot Air Cabinet Motor	1 HP	3 HP	3 HP	5 HP	5 HP	10 HP	10 HP	15 HP
Hot Air Flow	360 CFM	1200 CFM	1500 CFM	2400 CFM	4000 CFM	4400 CFM	11000 CFM	14000 CFM
Weight of Main Machine	225Kg	540Kg	655Kg	910Kg	1150Kg	1300Kg	1750Kg	2185Kg



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