

**SAIMACH**<sup>TM</sup>  
pharmatech pvt. ltd.

➤ **Tablet De-Dusting Machine**

MODEL	SM-100
Output (for 8mm tablet)*	5,000 to 2,70,000 tablet / Hour
Electric Motor	0.25 HP / 1440 RPM / 3 Phase
Max. Tablet Diameter	25 mm (40mm on Demand)
Min. Tablet Diameter	5 mm
Net Weight	70 kg

\* Depending upon tablet shape & size.

➤ **Tablet De-Dusting Machine Elevating Type**

MODEL	SM-500
Max. Tablet Diameter	Up to 40 mm
Output *	1,74,000 Tablets / Hour for 8mm ammeterer Tablet
Power Supply	0.5 HP, Single Phase, AC

\* Depending upon tablet shape & size.

➤ **Dust Extractor Machine**

MODEL	SM-DE-150	SM-DE-300
Fan Volume (CFM)	150 CFM (250 m3/Hour)	300 CFM (500 m3/Hour)
Filtration Area	0.84 m2	1.34 m2
Dust Storage Capacity	25 Liters	40 Liters
Electric Motor	1 HP / 3 Phase	1 HP / 3 Phase

\* Depending upon tablet shape & size.

**MANUFACTURER OF  
PHARMACEUTICAL MACHINERIES  
PUNCHES & DIES**



[www.saimach.com](http://www.saimach.com)



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pharmatech pvt. ltd.

**SAIMACH PHARMATECH PVT. LTD.**

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## ROLL COMPACTOR cGMP

200 / 50, 200/75 & 200/100

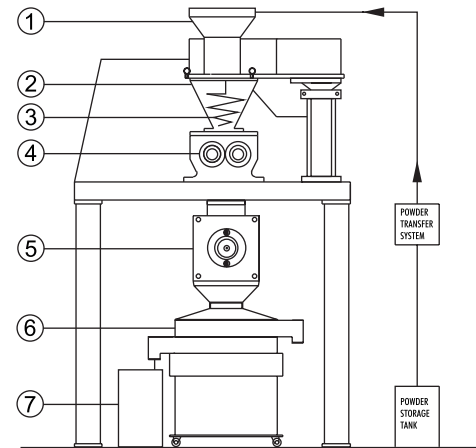
Plain & Water Jacketted

Optional : Hydraulic System for Rear Roller



### Also Available Online Roll Compactor...

1. POWDER CHARGING HOPPER
2. POWDER FEEDING HOPPER
3. POWDER FEED SCREW
4. COMPACTING ROLLER
5. GRANULATOR
6. SIFTER
7. STORAGE DRUM



### Technical Specifications:

MODEL	SMRC-200/50	SMRC-200/75	SMRC-200/100
Output *	5 to 60 Kgs / hr.	10 to 100 Kgs / hr.	50 to 250 Kgs / hr.
Roll Size	Ø200mmX50 mm (W)	Ø 200mmX75mm (W)	Ø 200mmX100mm (W)
Roll Speed	6 to 25 RPM (Step Pulley drive)	6 to 25 RPM (Step Pulley drive)	6 to 25 RPM (Step Pulley drive)
Feed Screw Speed	5 to 60 RPM (Through A.C. Drive)	5 to 60 RPM (Through A.C. Drive)	5 to 60 RPM (Through A.C. Drive)
Roll Drive Motor	5 HP, 960 RPM, 440 V, 3 Ph 50 Hz,	5 HP, 960 RPM, 440 V, 3 Ph 50 Hz,	7.5 HP, 960 RPM, 440 V, 3 Ph 50 Hz,
Feed Screw Drive Motor	3 HP, 1440 RPM, 440 V, 3 Ph 50 Hz,	3 HP, 1440 RPM, 440 V, 3 Ph 50 Hz,	3 HP, 1440 RPM, 440 V, 3 Ph 50 Hz,

\* Depending upon material characteristic & available room atmosphere only.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.

Dia : Diameter / W : Width

## ROLL COMPACTOR Cantilever type with Flakes Crusher & Mill or Granulator + Sifter + Powder Transfer System (Vacuum Conveying System)

Plain & Water Jacketted

Optional : Hydraulic System for Rear Roller



### Salient Features :

- In Compliance with cGMP guidelines.
- Contact Parts are made of S.S. 316 except rollers.
- Very compact design available in Plain, Water Jacketted or Flameproof Model.
- Screw is driven through AC Variable Frequency Drive. Safety slipping clutch between gearbox and feed screw.
- ELNP (Electroless Nickel Plating) or Hard chrome plated with mirror finished compacting rolls made of tools steel.
- Rolls drive through twins shaft gearbox with drive unit coupled to it using coupling, which ensures synchronization of the rolls with a steady torque loading.
- Pre-Compression chamber guides the products to roll without any slippage or leakage.
- Pre-densifier screw comprises of cylindrical or conical shape, which is well polished and made of AISI SS-316 quality material.
- The feed screw assembly can be lifted by hand-operated hydraulic pump. This facilitates ease in cleaning.
- Scrapper assembly also designed to dismantle for ease of cleaning.
- A separate panel board which consist all controls and indicators of the compactor are permanently built in namely, on/off rolls, on/off feed screw, main switch, forward/reverse switch, ammeters for rolls and feed screw and emergency stop to avoid short circuit or fire hazard at the time of cleaning with water.
- Electrical interlocking between main roll drive and fixed screw drive.
- Water jacketing arrangement. (optional)
- Hydraulic power pack system for Rear Roller. (optional)
- AC Variable frequency drive for Rollers. (optional)

## ROLL COMPACTOR cGMP

200 / 150, 200/200 & 300/300

Plain & Water Jacketted

Optional : Hydraulic System for Rear Roller



Optional : Flame Proof Control Panel



### Technical Specifications:

MODEL	SMRC - 200/150	SMRC - 200/200	SMRC - 300/300
Output	50 to 350 Kg/Hour*	50 to 450 Kg/Hour*	100 to 1000 Kg/Hour*
Roll size	Ø 200mm x 150mm Width	Ø 200mm x 200mm Width	Ø 300mm x 300mm Width
Roll speed (Step pulley drive)	6 to 22 RPM	6 to 22 RPM	6 to 22 RPM
Feed screw speed	5 to 60 RPM (Through AC Variable Frequency Drive)		
Roll drive Motor	10 HP / 960 RPM / 3 Phase	15 HP / 960 RPM / 3 Phase	30 HP / 960 RPM / 3 Phase
Feed screw drive motor	5 HP / 1440 RPM / 3 Phase		7.5 HP / 1440 RPM / 3 Phase

\* Depending upon material characteristic & available room atmosphere only.

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Dia : Diameter / W : Width

## LAB ROLL COMPACTOR cGMP (For R & D)

200 / 25 Plain & Water Jacketted Optional : Hydraulic System for Rear Roller

### Applications:

- To increase the bulk density
- To achieve better granulation & sieve analysis
- To reduce process cost and improve the end product quality
- Free flowing granules
- Dust free granules to facilitates handling
- Compact granules to reduce pack size
- Granules to fill in smaller capsule
- Granules for Tableting process



### Technical Specifications

MODEL	SMRC - 200/25
Working Capacity	Up to 5 Kg/Hour
Roll Speed	1 - 30 RPM
Screw Speed	1 - 100 RPM
Roller Motor	3 HP / 3 Phase
Feeder Motor	2 HP / 3 Phase



## ➤ RAPID MIXER GRANULATOR



### Salient Features :

- Model is available from 3 liter to 1200 liter working capacity.
- Fully automatic operation based on PLC control (optional).
- Better productivity & lesser mixing time.
- Contact parts are SS 316 / 316L.
- Uniform mixing & granulation.
- Less handling. More hygienic.
- cGMP with documentation.
- Pneumatically Operated Top Lid & Discharge



**LAB MODEL  
RAPID MIXER  
GRANULATOR**

### Technical Specifications:

MODEL	SMRMG 10	SMRMG 25	SMRMG 50	SMRMG 100	SMRMG 150	SMRMG 250	SMRMG 400	SMRMG 600	SMRMG 800	SMRMG 1000	SMRMG 1200
Gross Volume Liter	10	25	50	100	150	250	400	600	800	1000	1200
Working Volume Liter	8	20	40	80	120	200	320	480	640	800	960
Mixer Motor (HP)	1.5	3/5	4/7.5	7.5/10	10/15	20/30	30/40	40/50	50/60	60/75	75/100
Chopper Motor (HP)	1	1.5/2	2/3	2/3	3/5	3/5	5/7.5	7.5/10	10/15	15/25	25/30
Compressed Air Pressure (bar)	6	6									
Power Supply	220V, ±10%, 1 Phase, AC		415 V ± 10%, 3 Phase, AC								

## ➤ FLUID BED DRYER

**LAB MODEL  
FLUID BED DRYER**



### Salient Features :

- Very versatile process equipment.
- Fully automatic operation based on PLC control. (optional)
- Minimum handling and more hygienic.
- Top Mounted telescopic cylinder for auto bag shaking. (optional)
- Clamp type bottom mesh for container.
- Capacity available from 2.5 kgs. to 300 kgs.
- MOC SS 304 / 316 / 316L
- cGMP with documentation.

### Technical Specifications:

MODEL	SMFBD 15	SMFBD 30	SMFBD 60	SMFBD 120	SMFBD 200	SMFBD 300
Container Gross Volume Liters.	46	71	142	280	475	650
Maximum Batch Capacity (0.5bd) Kg.	10 to 15	20 to 30	40 to 60	80 to 120	160 to 200	200 to 300
Blower Motor HP**	5	7.5	10	20	25	30
Air Flow (CFM) ± 10%	430	706	1060	1880	2590	3235
Steam Consumption (kg /hour)	30	50	80	140	216	250
Electric Heater (KW)	20	20	36	60	N.A.	N.A.
Steam Pressure (kg / cm <sup>2</sup> )	3.5					
Compressed Air Pressure (bar)	6					
Drying temp (°C)	35-80					
Power Supply	415 V, ± 10%, 3 Phase, AC					

\*\* The Blower motor of higher capacity will be required in machine if supplied with HEPA, Scrubber & ducting length above 5 meters.  
\*\*\* Ducting System is not a part of above Equipment.

## ➤ Octagonal Blenders

### Salient Features :

- Available in various models i.e Octagonal, V – Type or Double Cone Blender.
- Available for smaller volume capacity or Pilot Scale volume capacity
- In compliance with cGMP guideline.
- Effective blending with help of mixing baffles.
- Easy to clean.
- PLC/HMI system (Optional)
- Flameproof Construction (Optional)
- Product contact parts made of SS 304 & Non-contact parts SS 304



**Lab Model Blender**

### Technical Specifications:

MODEL	SMOB 01	SMOB 02	SMOB 05	SMOB 10	SMOB 25	SMOB 50	SMOB 100	SMOB 200	SMOB 300	SMOB 500	SMOB 800	SMOB 1000	SMOB 1200	SMOB 1500	SMOB 2000
Gross Capacity (Liter)	01	02	05	10	25	50	100	200	300	500	800	1000	1200	1500	2000
Working Capacity (Liter)	0.7	1.4	3.5	7	17.5	35	75	140	210	350	560	700	840	1050	1400
Machine RPM (Max.)	24	24	24	24	24	24	24	24	24	16	16	16	16	16	12
Discharge Port Diameter (Inch)				3	3	3	4	6	6	6	8	8	10	12	12
Main Drive Motor (HP)	0.5	0.5	0.5	1	1	1	1	2	2	3	5	7.5	7.5	7.5	10



**Lab Model  
Multi Mill**



## ➤ Multi Mill

MODEL	SM-MM-200	SM-MM-50
Output *	50 to 200 Kg/Hour	2 to 10 Kg/Hour
Rotor Assembly Diameter	250 mm. Approx.	156 mm. Approx.
Rotor Speed	750 / 1500 / 2300 / 3000 RPM	750 / 1500 / 2300 / 3000 RPM
Beaters	12 Nos. with knife and impact edges and 2 Nos. scraper blades	
Screen dimension	Inner Dim. 265 mm./ Height 140 mm	Inner Dim. 168 mm./ Height 88 mm
Motor	3.0 HP / 1440 RPM / 3 Phase	0.5 HP / 1440 RPM / 3 Phase
Starter	"DOL" with reversible switch	"DOL" with reversible switch
Material charging height	1450 ± 5 mm.	955 ± 5 mm.
Material discharging height	750 ± 5 mm.	450 ± 5 mm.

\* Depending on the material.

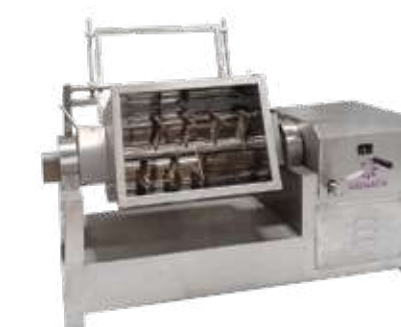
## ➤ Sifter Machine

MODEL	SMSM 30"	SMSM 48"	SMSM 60"	SMSM 60"
Screens	SS 304	SS 304	SS 304	SS 304
Screen Dia.	750 mm.	1220 mm.	1524 mm.	1524 mm.
Capacity/Hour *	30 to 300 Kg	50 to 450 Kg	60 to 600 Kg	60 to 600 Kg
Electric Motor	0.5 HP / 1440 RPM / 3 Phase	1.5 HP / 1440 RPM / 3 Phase	2 HP / 1440 RPM / 3 Phase	2 HP / 1440 RPM / 3 Phase

\* Depending upon Material's properties and screen size



**Lab Model  
Sifter**



## ➤ Mass Mixer

MODEL	SMM 50	SMM 100	SMM 150	SMM 200
Capacity	50 kg	100 kg	150 kg	200 kg
Over flow Capacity	110 Liter	220 Liter	300 Liter	440 Liter
Working Capacity	88 Liter	156 Liter	234 Liter	310 Liter
Speed of Stirrer	35 RPM	35 RPM	28 RPM	35 RPM
Electric Motor	3 HP/3 Phase	5 HP/3 Phase	7.5 HP / 3 Phase	10 HP / 3 Phase



## SAIPRESS IV High Speed Rotary Tablet Press cGMP

### Technical Specifications

Type	SPD IV - 45	SPD IV - 55	SPD IV - 61	SPD IV - 75
No. of stations	45	55	61	75
Type of tooling	D	B	B	BB
Output tablets / hrs. Max. 60 RPM	65,000 to 325,000	79,000 to 396,000	87,840 to 439,200	108,000 to 540,000
Max. operating pressure (main)	100 kN	65 kN	65 kN	65 kN
Max. operating pressure (pre - compression)	10 kN	10 kN	10 kN	10 kN
Max. tablet diameter	23 mm (25mm on Demand)	16 mm	16 mm	11.1 mm
Max. depth of fill	20 mm	17 mm	17 mm	17 mm
Upper punch penetration	1.5 to 8 mm			
Power (total)	8.75 kW / 11 hp			
Main electric motor	7.5 kW / 10 hp			
Force feeder motor (2 Nos.)	0.19 kW / 0.25 hp			
Overall dimensions (cm) (Guard Close)	167 X 178 X 209 H			
Net weight	3750 kg			
Gross Weight	4100 kg			

\* Depending upon the characteristic of material and shape & size of tablets.  
NOTE : Due to Continuous Improvements in the Machineries, Specification of the Machineries is subject to change without any arior notice.



## SAIPRESS II High Speed Rotary Tablet Press cGMP

### Technical Specifications

Type	SPD II - 37	SPD II - 45	SPD II - 45	SPD II - 61
No. of stations	37	45	45	61
Type of tooling	D	DB	B	BB
Output tablets/hour *	53,280 to 222,000	64,800 to 270,000	64,800 to 270,000	87,840 to 366,000
Max. operating pressure (main)	10 Tons	10 Tons	6.5 Tons	6.5 Tons
Max. tablet diameter	23 mm (25mm on Demand)	19 mm (21 X 9mm Caplet)	16 mm	11.1 mm
Max. depth of fill	20 mm	20 mm	17 mm	17 mm
Upper punch penetration	1.5 to 8 mm			
Power (total)	7 kW / 9.5 hp			
Main electric motor	5.5 kW / 7.5 hp, 1440 RPM, 415 V, 50 Hz, 3 Phase			
Force feeder motor (2 Nos.)	0.19 kW / 0.25 hp			
Overall dimensions (cm)	147 X 140 X 187 H			
Case dimension (cm)	168 X 183 X 224 H			
Net weight	2500 kg			
Gross Weight	2835 kg			

\* Depending upon the characteristic of material and shape & size of tablets.  
NOTE : Due to Continuous Improvements in the Machineries, Specification of the Machineries is subject to change without any arior notice.



## SAIPRESS I High Speed Rotary Tablet Press cGMP

### Technical Specifications

MODEL	SPD I-27	SPD I-35	SPD I-35	SPD I-45
No of Station	27	35	35	45
Type of Tooling	D	DB	B	BB
* Output Tablets / Hour (Single Layer)	58,320 to 129,000	75,600 to 168,000	75,600 to 168,000	97,600 to 216,000
Max. Operating Pressure (Main)	10 Tons	10 Tons	6.5 Tons	6.5 Tons
Max. Tablet Diameter	23mm (25mm on Demand)	19 mm (21 X 9mm Caplet)	16 mm	11.1 mm
Maximum Depth of Fill	20 mm	20 mm	17.5 mm	17.5 mm
Upper Punch Entry	1.5 to 8 mm			
Main Electric Motor	3.75 kW/5.0 hp, 1440 RPM, 415V, 3 Phase, 50Hz			
Powder Force Feeder Motor (Optional)	0.75 kW/1.0 hp, 1440 RPM, 415V, 3 Phase, 50Hz			
Overall dimensions (cm)	111 x 125 x 181 H			
Case dimensions (cm)	136 x 150 x 200 H			
Net Weight (Approx.)	1590 kg			
Gross Weight (Approx.)	1800 kg			

\* Depending upon the Tooling Size & Shape, material characteristics and also ambient condition.  
NOTE: DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION/SHAPE OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.



## Double Sided Rotary Tableting Machine cGMP

### Salient Features :

- Robust with high quality Engineering
- Turret of SG IRON 500/7 Graded Casting
- Medium batch production
- Maximum output upto 216000 tablets per hour (for 45 Station)
- Tablets of upto 23 mm Diameter for 'D' Tooling and 16 mm Diameter for 'B' Tooling
- Safe / Simple to operate and easy to maintain
- Designed as per cGMP standards

### Technical Specifications

Type	SMB4 - D - 27	SMB4 - 35	SMB4 - 35	SMB4 - 45
No. of station	27	35	35	45
Type of tooling	D	DB	B	BB
Output tablets / hour * (Single Layer)	58,320 to 129,000	75,600 to 168,000	75,600 to 168,000	97,600 to 216,000
Maximum operating pressure (main)	10 Tons	10 Tons.	6.5 Tons	6.5 Tons
Maximum tablet diameter	23 mm (25 mm on Demand)	19 mm (21 X 9mm Caplet)	16 mm	11.1 mm
Maximum depth of fill	20 mm	20 mm	17.5 mm	17.5 mm
Upper punch penetration	1.5 to 8 mm			
Main electric motor	3.70 kW / 5hp, 1440 RPM 415 V, 50 Hz., 3Phase			
Overall dimensions (cm)	105 x 106 x 181 H			
Case Dimension (cm)	130 x 131 x 200 H			
Net weight	1490 kg			
Gross Weight	1680 kg			

\* Depending upon the Tooling Size & Shape, material characteristics and also ambient condition.  
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Standard Painted Non-GMP Model

## Single Sided Rotary Tableting Machine cGMP

### Technical Specifications

Model	SMD-16	SMD-20	SM - 3H - 12
Tooling	D	D	SPECIAL
No. of Station	16	20	12
Maximum Operating Pressure	10 Tons	10 Tons	12 Tons
Maximum Tablet Diameter	23 mm (25 mm on Demand)	23 mm (25 mm on Demand)	40 mm
Maximum Depth of fill	20 mm	20 mm	30 mm
Output Tablets /Hour *	14,400 to 40,320	18,000 to 50,400	10,800 & 15,840
Electric Motor	2 Hp / 960 RPM	2 Hp / 960 RPM	5 Hp / 1440 RPM

\* Depending upon the characteristic of material and shape & size of tablets.

### Salient Features

- Hand wheel provided
- Turret of SG IRON 500/7 Graded Casting
- Main Operating Pressure up to 10 Tons (For 12 Station - Up to 12 Tons)
- Sturdy and easy fit Feed Frame (Gravity Feeder) of Gun Metal
- Central oil lubrication system with manual hand pump
- Cam tracks and pressure rolls made out of alloy steel for maximum wear resistance and long life
- Worm is made of Phosphor Bronze
- Ease of operation and maintenance
- Maximum 42 RPM of Turret
- Variable speed pulley drive (For 12 Station Fixed Pulley with Two different speeds)
- Mechanical Overload Pressure release arrangement



Standard Painted Non-GMP Model



## ➤ Automatic Tablet Coating Machine

### Automatic Tablet Coating Machine

- Automatic Tablet Coating Machine is a result of our comprehensive understanding of the needs of our customers in the Pharmaceutical Industry, Food & other Industries, especially their ability to respond quickly to the demands of their markets and more importantly to produce high quality products, consistently.
- Customers require their coating systems to be able to produce coated products within high quality standards and at the same time with high efficiency in terms of material usage and energy consumption.
- That is why we are constantly innovating & enhancing our Automatic Tablet Coating Machine range of coating systems. All equipments are designed & manufactured keeping GMP as an integral specification.
- Automatic Tablet Coating Machine is high efficiency/clean design/improved control
- It is high efficiency, energy saving, safe and clean equipment for film coating and sugar coating of tablets, pills, pellets and candies with aqueous, non-aqueous, non-enteric film coating and sugar coating.

### Process:

- The tablet to be coated make continuous complex orbital motion the close rotating drum under the action of modernize of baffles. During the motion coating medium automatically sprays according to the technological process and logical technological parameters.
- At the same time hot filtered air supplied under the 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 quickly and consistently, thus forming a solid and smooth surface film on tablet.
- The entire process is completed under the automatically by PLC controls with colour touch screen HMI interface

### Optional Features

- CIP/WIP Systems
- Pan Interchangeability (with trolley and parking racks up to 60")
- Steam & electric heat exchanger
- Tablet charging by bin loader
- Sugar Coating System
- Exhaust Air Treatment System
- Mass Flow Meter Based Spray Rate Control Systems

### Technical Specification

MODEL	SAC - 24	SAC - 36	SAC - 48	SAC - 60	SAC - 66
Pan Diameter - Inch (mm)	24 (600)	36 (920)	48 (1220)	60 (1525)	66 (1675)
Brim Volume (Liter)	25	105	212	630	1000
Working Capacity - (Kg)	5 to 20*	20 to 55*	70 to 150*	120 to 300*	180 to 400*
Pan mouth diameter (mm)	250	380	400	520	520
Pan Speed (RPM)	2 to 15	1 to 24	1 to 16	1 to 10	1 to 10
Main Motor (Hp)	1	2	3	5	7.5
Inlet Blower Motor (Hp)	1.5	1.5	5	10	10
Inlet Air CFM	750 CMH @200 WC	1400 CMH @200 WC	3000 CMH @200 WC	6000 CMH @200 WC	2000 m3/Hr @200 WC
Exhaust Blower Motor (Hp)	7.5	10	20	40	25
Air Flow Outlet CFM	750 CMH @900 WC	1400 CMH @900 WC	3000 CMH @900 WC	6000 CMH @900 WC	2500 @900 WC
Spraying Nozzle	1	2	3	4	4
Spray Rate (gm/minute)	-	-	50 to 130	50 to 130	50 to 130
Peristaltic Pump Motor (Hp)	0.25	1.0	1.0	1.0	1.0
Peristaltic Pump Speed (RPM)	1 to 99	1 to 99	1 to 100	1 to 100	1 to 100
Solution Preparation tank (Liter)	25 (0.25hp)	50 (1 hp)	100 (1 hp)	150 (1.5hp)	150 (1.5hp)
CIP Pump Motor (Hp)	1	1	2	2	2
Steam consumption Kg/Hour @4 bar	32	70	150	350	292
Compressed air CFM @6 bar	10	10	60	90	110
Wet Scrubber Pump Motor (Hp/RPM)	1 / 2880	2 / 2880	2 / 2880	2 / 2880	2 / 2880
Automizing Purging Air (CFM)	20	40	-	-	-
Automizing Purging Air Pressure (Kg/Cm2)	2.0 to 6.0	2.0 to 6.0	2.0 to 6.0	2.0 to 6.0	2.0 to 6.0
Chilled Water @3 bar Pr. & 5°C HW Inlet temperature	10 USGPM	12 USGPM	50 USGPM	85 USGPM	85 USGPM

Equipment parameters are indicative and subject to change as per requirements. Units in mm and shown as a reference only.

\* Depending upon the characteristic of material and shape & size of tablets. | Due to continuous development in design and improvement, the Specifications described in this offer are subject to modification change without prior notice.



### Features

- **Inlet Air Handling Units (AHU)**  
Our range of high-quality air handling systems are an integral part of our Automatic Tablet Coating Machine. The control of temperature & humidity within the Automatic Tablet Coating Machine is critical to the performance of the machine and we make sure that each AHU is designed for the application. Each unit is designed to meet the customer's needs and these air handling systems can be configured to meet the most demanding environmental conditions.
- Modular design to meet process requirements and space limitations
- Dehumidification of inlet air using chilled water, brine or desiccant systems
- Mist removal system is provided
- Air heating system with a choice of energy sources such as steam or electrical energy
- Filtration to the highest standards
- **Anti-Bearding Spray Nozzles**  
With the new Anti-Bearding Nozzles, an excellent spray pattern is achieved without any beard formation. For the first time the distance between the bed & the spray nozzle is displayed on the HMI screen. The spray angle and distance are adjustable. The nozzles are easy to clean.
- **Changeable Pan System**  
Now, you can exchange a pan in the equipment. This gives batch size flexibility in the same equipment. Investment is only required for a single piece of equipment. This feature is modular and can be supplied as an option.
- **Single Tablet Discharge**  
The discharging system is designed & engineered to discharge a single tablet from the pan without manual intervention. The discharge system can be installed without any tools & is easy to remove from the pan after discharge.
- **Robust & Reliable Process Control**  
With a high-tech PLC - HMI system is the heart of the equipment control center, all the process parameters are within very accurate control as well as accessible for operator to monitor as well as record. Exhaustive controls are provided for utilities as well.



## ➤ Lab Model Tablet Press

### Technical Specifications

Type	LAB - 8	LAB - 10	LAB - 12 MT
No. of Station	8	10	12
Type of tooling	D	B	D,B & BB
Output tablets / hour *	2,000 to 14,400	2,000 to 18,000	2,000 to 7,200
Maximum Operating Pressure	6 Ton	6 Ton	6 Ton
Maximum Operating Pre -Pressure	1 Ton	1 Ton	1 Ton
Maximum tablet diameter	19 mm(23mm caplet)	16 mm	19 mm(23mm caplet)
Maximum depth of fill	20.5 mm	17.5 mm	20.5 mm
Upper punch penetration	2 to 6 mm	2 to 6 mm	2 to 6 mm
Power	2 Hp / 1440 RPM	2 Hp / 1440 RPM	2 Hp / 1440 RPM
Gross weight (kg)	400	400	400
Over all dimensions (mm)	840 x 635 x 1200 H	840 x 635 x 1200 H	840 x 635 x 1200 H

\* Depending upon the characteristic of material and shape & size of tablets.

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Note : Trolley is not a standard scope of supply

## ➤ SAIMPRESS - FC Single Sided Rotary Tableting Machine cGMP Also Available with Pre-Compression

### Technical Specifications

MODEL	SMD-16-FC	SMD-20-FC	SMD-26-FC	SMD-32-FC
No. of Stations	16	20	26	32
Type of Tooling	D	D	B	BB
Output Tablets / Hour *	14,400 to 40,320	18,000 to 50,400	23,400 to 65,520	28,800 to 80,640
Max. Op. Pressure (Tons)	10	10	6.5	6.5
Max. Tablet Diameter (mm)	23 (25 on demand)	23 (25 on demand)	16	11.1
Max. Depth of Fill (mm)	20	20	17.5	17.5
Main Electric Motor	2 HP	2 HP	2 HP	2 HP

## ➤ Tablet & Capsule Inspection Machine – Roller Type

Model	SMTCI
Power Supply	230V / 50 Hz / 1 Phase / AC
Conveyer Drive	0.5 Hp Gear Motor Bonfiglioli or equivalent
Roller Drive	0.25 Hp Gear Motor Bonfiglioli or equivalent
Conveyer speed regulator	ACVFD
Roller speed regulator	ACVFD
Vibrator	230V with regulator
Illuminator	Electronic choke tube light
Castor wheel	Pu type

\* Depending on the material characteristics.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION/SHAPE OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.



### ➤ Tablet Inspection Machine

#### Salient Features

- Inspection on both sides of Tablet.
- As per cGMP Standard.
- Reversible of Tablet.
- Foot switch provided on both side for stopping the machine.
- Vibration provided for removing of dust.
- The unit is mounted on caster wheel.
- 0.25 HP Motor.
- Input Power Supply – 220-230V / Single Phase

### ➤ Oscillating Granulator cGMP



#### Oscillating Granulator Horizontal – Single Stirrer

MODEL	SMOG-HORIZONTAL
Hopper Size	33 Liter
Screen Area	388 mm (W) X 762 mm (L)
Stirrer Size	Ø 138 mm x 368 mm Length
Oscillation	110 Per Minute
Output *	30 to 200 Kgs./Hour
Power supply	1 HP / 1440 RPM / 3 Phase

#### Heavy Oscillating Granulator Horizontal – Single Stirrer

MODEL	SMOG-250
Oscillation Speed	180 Per Minute
Output *	20 to 250 Kgs./Hour
Motor	2 HP / 1440 RPM / 3 Phase
Drive	Motor with Gear Box



#### Heavy Oscillating Granulator Horizontal – Double Stirrer

MODEL	SMOG-500
Oscillation Speed	180 Per Minute x 2 Stirrer
Output *	50 to 500 Kg/Hour
Motor	2 HP + 2 HP / 1440 RPM / 3 Phase
Drive	Motor with Gear Box



### ➤ Conventional Coating Pan

#### Technical Specifications

MODEL	12"	18"	24"	30"	36"	42"	48"	60"	72"
Loading Capacity in Kg.	05	7 to 8	20 to 25	40 to 45	60 to 80	90 to 100	110 to 120	150 to 210	200 to 250
Motor HP	0.5	0.5	1.0	1.5	1.5	2.0	2.0	5.0	7.5
Blower HP	0.25	0.25	0.5	0.5	1.0	1.0	1.0	2.0	2.0
Blower fan Volume CFM	90	90	150	150	150	150	150	300	300
Heater Capacity in Kw.	1.0	1.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0



#### Lab Model Coating Pan



### ➤ Colloid Mill Machine

MODEL	SMCM-15 (Horizontal)
Output *	100 to 1500 Liter/Hour
Particle size reduction **	5 to 10 Microns
Hopper capacity	15 Liters
Motor	3 HP / 2850 RPM / 3 Phase

\* Depending upon viscosity of material.

\*\* Depending upon material.

NOTE : DUE TO CONTINUOUS IMPROVEMENTS IN THE MACHINERIES, SPECIFICATION OF THE MACHINERIES IS SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.



### ➤ Hot Air Tray Dryer

MODEL	SM-TD-24	SM-TD-48	SM-TD-48
Loading capacity	24 Trays	48 Trays	96 Trays
No of Doors	One	One	Two
No of Blowers	One	One	One
Motor	1.0 HP / 1440 RPM / 415 - 440 V / 50 Hz / 3 Phase	1/1 HP / 1440 RPM / 415 - 440 V / 50 Hz / 3 Phase	2/1 HP / 1440 RPM / 415 - 440 V / 50 Hz / 3 Phase
Electrical Heating Load	12 kW	18 kW	27 kW
Tray Loading	Rack System	One Trolley	Two Trolley
Tray Size	812 mm X 406 mm X 31 mm (32 Inch X 16 Inch X 1 ¼ Inch)		
Trolley Dimension	Fixed Racks	840 mm X 960 mm X 1780 mm	

### ➤ Lab Model Hot Air Tray Dryer

#### Technical Specifications

MODEL	SM-TD-12	SM-TD-6
Loading capacity	12 Trays	6 Trays
No of Doors	One	One
No of Blowers	One	One
Motor	0.5 HP / 1440 RPM / 415 - 440 V / 50 Hz / 3 Phase	
Electrical Heating Load	12 kW	12 kW
Tray Loading	Rack System	Rack System
Tray Size	812 mm X 406 mm X 31 mm (32 Inch X 16 Inch X 1 ¼ Inch)	
Trolley Dimension	Fixed Racks	Fixed Racks

\* Depending upon Material's properties and screen size.



### ➤ COMMINUTING MILL

#### cGMP

MODEL	SM-CM-300
Output *	25-300 Kg / Hour
Rotor speed	1000 – 2250 – 4500 RPM
Rotor Blades	Fix Beaters (Stainless Steel with knife and impact edge).
Beaters quantity	16 Nos.
Feeding	Manual
Screens	1. Round/Square hole perforated S. S. Sheet 2. Woven S. S. wire mesh
Electrical Motor	5.5 KW / 7.5 HP / 1440 RPM / 3 Phase

\* Depending upon tablet shape & size.

