

# PRECESSION, SPEED & RELIABILITY

are crucial & they form the  
point of our enterprise



Quality,  
Service &  
Satisfaction



*Let's Rise*

## SUNMACH MACHINERY

Since 1992

MANUFACTURERS & EXPORTERS OF PHARMA & FMCG MACHINERIES

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# R & D TABLET PRESS (BI-LAYER)



SUNMACH MINI PRESS is a R&D tablet press designed to simulate two-layer tablet production on a pilot/small scale.

It is available in 9D, 11B & 10DB (5D & 5B) configurations.

## Standard Features

- cGMP model with contact parts SS 316
- Central pillar drive through an oil-immersed reduction gearbox
- Gravity feeding system & pre-compression System
- 3 Piece turret with SS 316 die table (upper & lower piece with ELNP coating)
- PLC with HMI controls
- Mono layer tablet attachment
- First layer sampling device



## Optional Features

- Main, pre compression & ejection force monitoring System
- Compaction Force Control system (CFC System)
- Force feeding system with ACVFD
- Turret with HCP Die table
- Various depth of fill lower cam tracks
- Turret with lower punch key way

The ideal output of the machine is maximum upto 23000 tablets/hr.



# SMD3 SINGLE ROTARY TABLET PRESS

## Salient Feature

- In Compliance with cGMP Guidelines.
- Rigid and Robust standard design machine.
- Variable Speed through VFD.
- Maximum Output 45,000 Tablet / hr.
- Maximum Operating Pressure 10 Tons.
- Easy to operate, clean and maintenance.
- Supplied with Round Base Body.

## Optional Feature

- PLC with HMI Controls
- Also available outside controls

## Technical Specification

| TYPE                    | SMD3                          |                               |                               |  |
|-------------------------|-------------------------------|-------------------------------|-------------------------------|--|
| Station Tooling         | 16 'D'                        | 20 'D'                        | 23 'D / B'                    |  |
| Output Tab. / Hour*     | 28,000                        | 35,000                        | 45,000                        |  |
| Max. Dia                | 23 mm                         | 23 mm                         | 16 mm                         |  |
| Max. Depth of fill      | 20 mm                         | 20 mm                         | 20 mm                         |  |
| Max. operating Pressure | 10 tons                       | 10 tons                       | 10 tons                       |  |
| Electrical Power        | 2 HP. /3 ph., 960 RPM,        | 2 HP. /3 ph., 960 RPM,        | 2 HP. /3 ph., 960 RPM,        |  |
| Overall Dimensions (mm) | 980 x 1120 x 1820 (H) Approx. | 980 x 1120 x 1820 (H) Approx. | 980 x 1120 x 1820 (H) Approx. |  |
| Net Weight              | 1000 Kgs. Approx.             | 1000 Kgs. Approx.             | 1000 Kgs. Approx.             |  |
| Gross Weight            | 1200 Kgs. Approx.             | 1200 Kgs. Approx.             | 1200 Kgs. Approx.             |  |



*Due to constant process of product improvement, we reserve the right of modifying the design without intimation*



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# SUNPRESS-I DOUBLE SIDED ROTARY TABLET PRESS



## Characteristics and Special Features

- In compliance with cGMP guidelines
- Main compression pressure up to 10 ton • Higher turret speed up to 42 RPM
- Variable speed frequency drive • Gravitational feed frame
- Interlocking at Upper Guards • Dust Nozzle with clamp

## Optional Feature

- PLC with HMI Controls
- Outside controls for weight & thickness
- Force Feeder with VFD
- Bi Layer Attachment

## Technical Specifications

| TYPE                      | SMB4-27                                | SMB4-35                                | SMB4-45                                |
|---------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Type of tooling           | D                                      | B                                      | Die BB & Punch B                       |
| No. of station            | 27                                     | 35                                     | 45                                     |
| Max. Operating Pressure   | 10 Tons.                               | 6.5 Tons.                              | 6.5 Tons.                              |
| Max. Tablet Diameter      | 23.0 mm                                | 16.0 mm                                | 7/16" (11.1 mm)                        |
| Max. Depth of Fill        | 20.0 mm                                | 11/16" (17.4 mm)                       | 11/16" (17.4 mm)                       |
| Output Tab./Hour*         | 50,000-1,29,000                        | 67,200-1,68,400                        | 86,400-2,16,800                        |
| Upper Punch Penetration   | 1.5 to 6.5 mm                          | 1.5 to 6.5 mm                          | 1.5 to 6.5 mm                          |
| Electric Motor            | 5 H.P. / 1440 R.P.M. /                 | 5 H.P. / 1440 R.P.M.                   | 5 H.P. / 1440 R.P.M.                   |
| Net Weight (Approx.)      | 1143 Kg.                               | 1170 Kg. approx.                       | 1170 Kg. approx.                       |
| Gross Weight (Approx.)    | 1400 Kg.                               | 1420 Kg. approx.                       | 1420 Kg. approx.                       |
| Machine Dimension (in mm) | 1170 (L) x 1150 (B) x 1900 (H) Approx. | 1170 (L) x 1150 (B) x 1900 (H) Approx. | 1170 (L) x 1150 (B) x 1900 (H) Approx. |



# SUNPRESS-IV HIGH SPEED DOUBLE SIDED ROTARY TABLET PRESS

## General Machine Description

SUNPRESS IV is a Double Sided, High Speed Rotary Tablet Press. Facilitated with Pre-Compression system, it incorporates many of the proven features of SUNPRESS with the latest in machine technology. SUNPRESS IV is one of the most advance machines of its class in the market today. Improvement in the areas of sound reduction, operator safety, cleanliness and cleanability and operation convenience are some of its key advantages. The machine is extremely reliable.

## Salient Features

- In compliance with cGMP guidelines • Force Feeder with VFD
- Easy Accessibility for Quick Cleaning and Product Conversion
- Improved Tablet Quality; Handles Difficult Products Easily due to Pre-Compression Facility. • Ensures Hygienic Production Conditions
- PLC Controls. • Also Available 55 "B", 61 "B" and 75 "BB" stations.
- Outside Controls for Tablet weight, thickness, pressure & punch penetration

## Optional Feature

- PLC with HMI Controls • Gravity Feeder • Vacuum Transfer System
- Powder Level Sensor • Bi Layer Attachment

## Technical Specification

| TYPE                                      | PRESS IV-45            | 55 / 61            | 75                   |
|-------------------------------------------|------------------------|--------------------|----------------------|
| No of Station                             | 45                     | 55 / 61            | 75                   |
| Type of Tooling                           | D                      | B                  | BB                   |
| Output Tablets/hour*                      | 65,000 to 324,000      | 79,000 to 3,96,000 | 1,08,000 to 5,40,000 |
| Main Operating Pressure upto              | 100 Kn                 | 65 Kn              | 65 Kn                |
| Max. Operating Pressure (Pre-Compression) | 10 Kn                  | 10 Kn              | 10 Kn                |
| Max. Tablet Diameter                      | 23 mm (25mm on demand) | 16 mm              | 11.1 mm              |
| Max. Depth of Fill                        | 20 mm                  | 17.4 mm            | 17.4 mm              |
| Upper Punch Entry                         | 3 to 8 mm              | 3 to 8 mm          | 3 to 8 mm            |
| Power (Total)                             | 12HP                   | 12HP               | 12HP                 |
| Main Electric Motor                       | 7.5 kW / 10 HP         | 7.5 kW / 10 HP     | 7.5 kW / 10 HP       |



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



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## TABLET DE DUSTER (ELEVATING TYPE)



### Salient Features

- Completely Stainless steel structure • GMP model with contact parts SS316
- Very easy to clean • Easy to operate • Upward ( elevating ) movement of tablets
- Efficient De dusting with elevating motion in bottom to top motion suitable for high speed tablet machine.
- Dual motor drive from bottom with vacuum suction pot for collection of dust.
- Acrylic guard for process visualization • De Duster works on the principle of Rotary vibratory action • Single Phase UN Balance Vibro-motor for better vibration amplitude • Variable Frequency Drive based operating panel on the machine for ease of operation
- Very low Electrical power consumption & Very low noise level
- No moving component, hence almost maintenance free
- Height adjustment RAM Assembly to adjust the Tablet Press output discharge
- Tablet de-dusting route is geometrically designed as to achieve optimum de- dusting



### Technical Specifications

| TYPE              | De Duster                    | TYPE                         | De Duster                                        |
|-------------------|------------------------------|------------------------------|--------------------------------------------------|
| Input voltage     | 220 V<br>110 V               | Castor wheel                 | 2" size, wheel of PU material                    |
| Motor             | 02 nos., 0.25 Hp, 220 V, 3Ph | Power Supply                 | 220 V 50 Hz /<br>110 V 60 Hz.                    |
| Tablet runway     | 4.5 meter ( approximate )    | Charging spout               | 175 mm x 50 mm                                   |
| All contact parts | SS 316                       | Charging Height              | 710 to 860 mm ( plus 150 mm extension footerce)  |
| "U" type ribbon   | Silicon rubber               | Dis. charging Height         | 870 to 1030 mm ( plus 150 mm extension footerce) |
| Acrylic guard     | 310 mm O.D. x 5 mm thick     | Output per hour (8mm Tablet) | @ 2,50,000 Tablet / Hr.                          |

## METAL DETECTOR (MODEL : SUNMD 75)

### Introduction

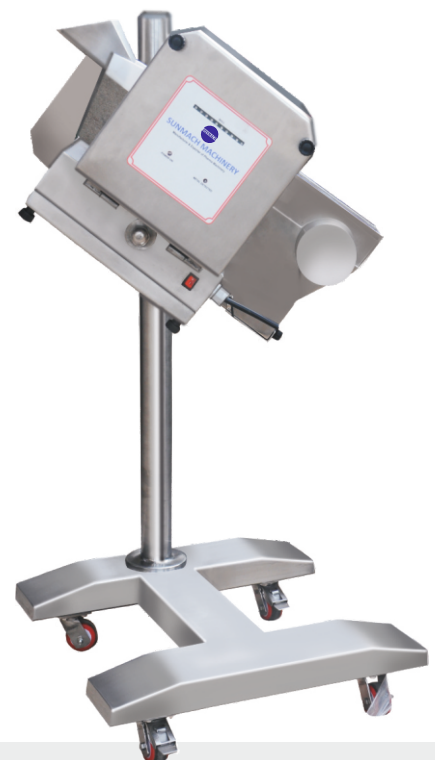
The pharmaceutical industry needs highly accurate metal detection to meet the requirements of demanding consumers and stringent legislation. SUNMACH metal detector provides class leading, online metal detection. The unit is manufactured from stainless steel through out to provide a hygienic easily cleaned inspection. A robust stainless steel reject flap is operated by a high speed electrical solenoid for clean, precise rejection of contaminated product with minimum waste. This metal detector chute can be quickly and easily dismantled for routine cleaning and product changeover. It is especially well suited for high processing speeds and quick product change. The SUNMACH tablet metal detector is designed for simple adaptation and flexible, efficient operation on the line. The complete unit takes up minimum system length and can be located before or after the de duster.

### Salient Features

- High speed reject for positive reject of contaminants.
- Compact frame needs less installation space, easily cleaned, stainless steel finish for easy clean and hygienic design.
- High sensitivity to all metal including the most difficult non-magnetic stainless steel.
- Easily compatible with all tablet press.
- Built in led bar graph to monitor the amount of contamination.
- Performance is maintained stable throughout the life.

### Technical Specifications

- Aperture size 75 mm width and 25 mm height
- Detect metal contamination of 0.3 mm Ferrous
- Detect metal contamination of 0.5 mm SS & Non-Ferrous
- Electrical solenoid operated flap type reject mechanism
- All contact part from S.S. 316
- Non contact part from S.S. 304
- Adjustable height up to 1 Mtr.
- Mounted on castor wheel for easy mobility
- Power supply 115 V AC 60 Hz single phase





# TABLET & CAPSULE INSPECTION MACHINE



## Salient Features

- 360 Degree Inspection on of Tablet & Capsule.
- As per cGMP Standard.
- Foot Switch provided for stopping machine.
- No change parts required for various shapes and sizes of tablets / capsules.
- Food grade material used for plastic and rubber components
- The unit is mounted on Caster wheel.
- 0.25 H.P. Geared motor for Both Conveyor & Roller Drive with Regulator.
- Vibrator with Regulator.
- LED Lamp for visual Inspection.
- Inspect up to 1.5 Lac Tablet / Capsule per Hour\*.



## DIES & PUNCHES



- Made from quality tool steel like OHNS or HCHC.
- Most Modern manufacturing techniques ensure highest life of the Tooling
- We can provide tools for all kind of Tablet Press.
- We Design & Produce any Size of Tablet Tooling.

## DIE & PUNCHES STORAGE CABINET

### Outstanding Feature

- Vertical Holding of Punch.
- Separate space for Die.
- Label space in each Drawers.
- Drawer available 8,10,12,16,20 or as per your requirement.
- Suitable for both Tooling D, B & BB.
- Material of construction M.S. / S.S.
- Telescopic channel mounted drawers.
- Also available Tray type model.



## DIGITAL PORTABLE TABLET HARDNESS TESTER

### Standard Features

- Hardness Measurement By Load Cell Up To 500 Newtons
- Units Of Measurement In N, Kgf And Lbf
- PC Connectivity / Printer Connectivity Through RS232 Port
- Programmable Upper (T1) And Lower (T2) Tolerance Limits
- Peak Hold And Auto Release Function
- Green And Red Light Indication For Better Understanding
- Memory Of Upto 10 Testing Data
- Automated Semi-Calibration (Zero-Point Adjustment)
- Display Of 10 Test Value And Calculate The Average Of The Memorized Value.
- Automatic Power Off Function
- Acrylic Glass Safety Cover With Disposal Container
- Tester Operates On Rechargeable Battery

### Technical Specifications:

#### Model SMTHT-500

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Capacity             | : 500N / 50kgf                                                      |
| Resolution           | : 0.1N                                                              |
| Accuracy             | : $\pm 0.5\%$                                                       |
| Tablet Range         | : 2 ~ 28 mm                                                         |
| Display              | : LCD with Backlight                                                |
| Interface            | : RS-232                                                            |
| Standard Accessories | : DC Power Adaptor, Cleaning Brush, UserManual, Storage & CarryCase |
| Gross Weight         | : 5 kg                                                              |



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



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# SUNRMG REPID MIXER GRANULATOR



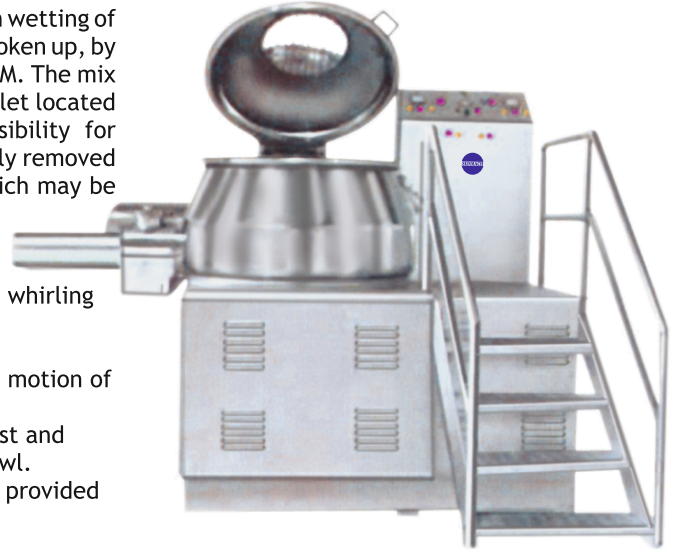
## Working Principle

The RMG working principle is based on 2 decisive factors essential for the mixing systems.

1. Spinning close to the bottom of the mixing bowl.
2. The impeller sets the entire mixture in a whirling-rising tumbling motion ensuring a quick and even distribution of all dry components which leads to an even distribution of all dry components which leads to an even wetting of every granule. The large lumps occurred during wet mixing are broken up, by the strategically located chopping tool rotating at 1440/2880 RPM. The mix can be discharged with the impeller running through the outlet located on the side of the mixing bowl flush to the bottom. Easy accessibility for cleaning is guaranteed by the low profile. The mixing tool is easily removed from the drive shaft providing an unobstructed mixing area which may be cleaned very easily.

## Mixing Bowl

1. Dome shaped processing bowl which directs loose particles into whirling motion with the help of impeller.
2. Impeller consists of 2 full and 2 half solid mixing blades.
3. Inclination of the mixing blades accelerates rising and tumbling motion of the product in the bowl.
4. Specially designed chopper blades driven at high speed gives fast and even granulation, throughout the whole mass in the product bowl.
5. For easy accessibility in cleaning the side discharge assembly is provided with hinges.



## Special Features

1. Unit is designed to meet requirements of GMP.
2. Contact Parts can be SS 304 / 316 quality.
3. Specially designed control panel with display system and microprocessor.
4. Bowl, lid mixing agitator, discharge housing and all other contact parts will be of stainless steel.
5. All M. S. parts of the machine are clad / covered with stainless steel.
6. Components of the machine are having easy accessibility for cleaning.
7. All electrical & pneumatic parts are pre-wired to simplify installation.
8. Limit switch is provided on main lid and discharge valve for safe operation.
9. Discharge can be provided on either side to suit clients requirement.



## Optional Features

1. Machine can be supplied with FLP electrical.
2. PLC can be provided for control panels, which can be integrated with computer for controlling / recording various process parameters.
3. Dust free feeding system.
4. Binder solution adding in built.

## Technical Specification

| TYPE                              | "SUNRMG"                  |                         |                         |                           |                          |                          |                           |                           |                           |  |
|-----------------------------------|---------------------------|-------------------------|-------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--|
| Model                             | SUNRMG-10                 | SUNRMG 25               | SUNRMG 50               | SUNRMG 100                | SUNRMG 150               | SUNRMG 250               | SUNRMG 400                | SUNRMG 600                | SUNRMG 1000               |  |
| Gross Volume in litres            | 10                        | 25                      | 50                      | 100                       | 150                      | 250                      | 400                       | 600                       | 1000                      |  |
| Working Volume in litres          | 8                         | 20                      | 40                      | 80                        | 120                      | 200                      | 320                       | 480                       | 800                       |  |
| Main Motor in HP & RPM Dual speed | 2/3 HP/3ph/ 750 / 1500    | 3/5 HP/3ph/ 750 / 1500  | 3/5 HP/3ph/ 750 / 1500  | 7.5/10 HP/3ph/ 750 / 1500 | 10/15 HP/3ph/ 750 / 1500 | 20/30 HP/3ph/ 750 / 1500 | 30/40 HP/3ph/ 750 / 1500  | 40/50 HP/3ph/ 750 / 1500  | 63/85 HP/3ph/ 750 / 1500  |  |
| Mixing speed RPM                  | 75 / 150                  | 75 / 150                | 75 / 150                | 75 / 150                  | 75 / 150                 | 75 / 150                 | 75 / 150                  | 75 / 150                  | 75 / 150                  |  |
| Chopper motor HP& RPM Dual speed  | 1/1.5 HP/3ph/ 1440 / 2880 | 1/2 HP/3ph/ 1440 / 2880 | 2/3 HP/3ph/ 1440 / 2880 | 2/3 HP/3ph/ 1440 / 2880   | 3/5 HP/3ph/ 1440 / 2880  | 3/5 HP/3ph/ 1440 / 2880  | 5/7.5 HP/3ph/ 1440 / 2880 | 5/7.5 HP/3ph/ 1440 / 2880 | 10/15 HP/3ph/ 1440 / 2880 |  |
| Output speed RPM                  | 1440 / 2880               | 1440 / 2880             | 1440 / 2880             | 1440 / 2880               | 1440 / 2880              | 1440 / 2880              | 1440 / 2880               | 1440 / 2880               | 1440 / 2880               |  |
| Weight in Kgs.                    | 200                       | 900                     | 1000                    | 1400                      | 1500                     | 1800                     | 2000                      | 2500                      | 3500                      |  |
| Overall dimensions                |                           |                         |                         |                           |                          |                          |                           |                           |                           |  |
| Length                            | 1450                      | 1440                    | 1700                    | 2350                      | 2400                     | 2550                     | 2880                      | 3100                      | 3300                      |  |
| Width                             | 600                       | 1000                    | 750                     | 1100                      | 1430                     | 2350                     | 2450                      | 2690                      | 3150                      |  |
| Height                            | 950                       | 1310                    | 1400                    | 1750                      | 2185                     | 2050                     | 2275                      | 2510                      | 3035                      |  |
| H-1                               | 1060                      | 1345                    | 1600                    | 1900                      | 2280                     | 2585                     | 2960                      | 3250                      | 3765                      |  |



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## Salient Features

- Single Piece Modular Design.
- High Productivity & Superior Design.
- In Compliance with cGmp Guidelines.
- Uniform drying with reduced drying time.
- Low Noise Level.

## Optional Features

- Pneumatic Shaking System.
- PLC with HMI.
- Online sampling provision.



## Technical Specifications

| TYPE                                 | SUNFBD-LAB | SUNFBD-15 | SUNFBD-30 | SUNFBD-60 |
|--------------------------------------|------------|-----------|-----------|-----------|
| Container Volume (Ltr.)              | 8          | 46        | 71        | 142       |
| Batch Size (Kg.) Min to Max.         | 2.5 to 3.5 | 10 to 12  | 25 to 30  | 50 to 60  |
| Blower Motor (H.P.*)                 | 1          | 2         | 5         | 10        |
| Air Flow (C.F.M.)                    | 270        | 429       | 706       | 1059      |
| Air Flow (m <sup>3</sup> / hr)       | 460        | 730       | 1200      | 1800      |
| Static Pressure (mm of water)        | 600        | 600       | 600       | 600       |
| Steam Pressure (Kg/cm <sup>2</sup> ) | 3.5        | 3.5       | 3.5       | 3.5       |
| Steam Consumption (Kg/hr)            | 26         | 36        | 50        | 72        |
| Electrical Heater (Kw)               | 9          | 18        | 20        | 36        |
| Compressed Air Pressure (bar)        | 6          | 6         | 6         | 6         |
| Drying Temperature (°C)              | 45-80      | 45-80     | 45-80     | 45-80     |
| Electrical Supply                    | 3 Ø, AC    | 3 Ø, AC   | 3 Ø, AC   | 3 Ø, AC   |

| TYPE                                 | SUNFBD-120 | SUNFBD-200 | SUNFBD-300 | SUNFBD-400 | SUNFBD-500 |
|--------------------------------------|------------|------------|------------|------------|------------|
| Container Volume (Ltr.)              | 288        | 475        | 650        | 875        | 1110       |
| Batch Size (Kg.) Min to Max.         | 100 to 120 | 80 to 200  | 200 to 300 | 300 to 400 | 400 to 500 |
| Blower Motor (H.P.*)                 | 15         | 25         | 30         | 50         | 50         |
| Air Flow (C.F.M.)                    | 1882       | 2588       | 3235       | 3824       | 4412       |
| Air Flow (m <sup>3</sup> / hr)       | 3200       | 4400       | 5500       | 6500       | 7500       |
| Static Pressure (mm of water)        | 800        | 800        | 800        | 900        | 900        |
| Steam Pressure (Kg/cm <sup>2</sup> ) | 3.5        | 3.5        | 3.5        | 3.5        | 3.5        |
| Steam Consumption (Kg/hr)            | 144        | 216        | 250        | 288        | 344        |
| Electrical Heater (Kw)               | **         | **         | **         | **         | **         |
| Compressed Air Pressure (bar)        | 6          | 6          | 6          | 6          | 6          |
| Drying Temperature (°C)              | 45-80      | 45-80      | 45-80      | 45-80      | 45-80      |
| Electrical Supply                    | 3 Ø, AC    | 3 Ø, AC    | 3 Ø, AC    | 3 Ø, AC    | 3 Ø, AC    |

- NOTE :**
- \*The Blower motor of higher capacity will require in machine, supplied with HEPA filter & ducting length above 5 meters.
  - Batch Size depends upon the product Density.
  - \*\*Electrical Heater provided up to 60 kg max without FLP machine.





# OCTAGONAL BLENDER



## Salient Features

- Suitable for dry mixing of products in granule form.
- Easy for Loading and Unloading of Material.
- Easy for Cleaning.
- All contact parts are made out of S.S. 304/S.S.316 Quality material, as per customer requirement.
- The octagonal shape & slow speed of rotating gives sufficient continuous movement to the granules, result in good quality.
- Simple design requires minimum maintenance.
- General structure & safety guards made out of mild steel & colored in standard Model and made out of S.S. 304 & Polished to the matt finish in GMP Model.
- Maximum Care has been taken to ensure safe operation of the unit.
- Manual rotating facility with hand wheel for inching.
- Bigger size batch at lower power consumption.



## Technical Specifications

| TYPE                                    | OCTAGONAL BLENDER (SUNOB) |                    |                    |                    |                    |                    |  |
|-----------------------------------------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Cap in kgs                              | 100                       | 250                | 335                | 500                | 950                | 1200               |  |
| Cap in ltrs                             | 300                       | 750                | 1000               | 1500               | 2800               | 3400               |  |
| Gross volume                            | 375                       | 875                | 1150               | 1700               | 3500               | 4000               |  |
| Motor                                   | 1.5                       | 3                  | 5                  | 5                  | 7.5                | 10                 |  |
| Gear box                                | 2.5                       | 3.5                | 4.0                | 5.0                | 6.0                | 7.0                |  |
| Discharge valve                         | 150                       | 200                | 250                | 250                | 300                | 300                |  |
| Overall dimensions<br>L X W X H Approx. | 2165 X 1535 X 2585        | 2300 X 1850 X 2800 | 2700 X 2100 X 3050 | 2850 X 2525 X 3120 | 2800 X 2900 X 3500 | 2900 X 3000 X 3700 |  |

# V BLENDER

## Operation

The "V" BLENDER is an efficient and versatile blending machine for mixing and lubrication process of dry powders homogeneously. Approximate two third of the volume of the Blender is filled to ensure proper mixing. The "V" Blender gives best result for powders due to suitable medium speed and "V" shape of container. It can be used for Pharmaceutical, Food, Chemical and Cosmetic products etc...

In V Blender the powders comes from all sides due to the "V" shape of the product container, hence requirement of RPM is medium. Suitable mainly for powder & granules type material. This type of material gets sufficient continuous movement. Due to the "V" shape of container, have only medium movement and will results in good quality of blending / lubrication of granules.



## Salient Features

- Suitable for dry mixing of products in powder form.
- Easy for loading and unloading.
- Easy for cleaning.
- All contact parts are made out of SS304 / SS316 or SS316 L quality material, as per customer requirement.
- Simple design requires minimum maintenance.
- General structure & safety guards made out of mild steel & painted in Standard Model and made out of SS304 & polished to the matt finish in GMP Model.
- The "V" shape gives sufficient contineous movement to the granules, result in good quality.
- Maximum care has been taken to ensure safe operation of the unit.
- Manual rotating facility with hand wheel for inching.

## Optional - (will be provided on extra cost on your demand)

- Contact parts made out of SS316 of Ss316 L instead of SS304.
- Flame proof drive motor along with flame proof starter.
- Vacuum loading facility for material charging.
- VFD for variable speed of cone.
- Intensifier (agitator system)
- Ask for technical detail

(Available In 5 Kg. To 2000 Kg. Capacity)



Note : Also Available Double Cone Blender



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## Salient Features

- Direction for beaters can be changed by reversible switch.
- All Contact parts can be easily band quickly dismantled and cleaned.
- Cylindrical screen for higher output.
- Castor Wheels provided for mobility.
- Beaters & Scraper blades of S.S. 304 / 316 Quality.
- Flame Proof electrical components can be provided at extra Cost.

## Technical Specifications

| TYPE                  | MULTIMILL MACHINE                                                                   |
|-----------------------|-------------------------------------------------------------------------------------|
| Output*               | 50Kg. to 200 Kgs. / hr. (Depending upon the product and reduction required in size) |
| Rotor Assly. Dia.     | 250 mm. (approx.).                                                                  |
| Rotor Speed           | 750/1500/2300/3000 RPM.                                                             |
| Beaters               | 12 Nos. with knife & 2 Nos. impact edges Scraper blades.                            |
| Screen Dimension      | Dia. (ID) 260 mm X (HT) 135 mm.                                                     |
| Motor                 | 3 H.P. / 1440 RPM / 3 Ph.                                                           |
| Starter               | DOL with Reversible Switch.                                                         |
| Material Charging Ht. | 1445 mm. (approx.)                                                                  |
| Overall Dimension     | 870 mm X 965 mm X 1630 mm (Ht).                                                     |
| Case Dimension        | 1000 mm X 1150 mm X 1860 mm (Ht).                                                   |
| Net Weight            | 275 Kgs. (approx.).                                                                 |
| Gross Weight          | 425 Kgs. (approx.).                                                                 |

# SUNVS VIBRO SHIFTER (SIEVING, GRADING & STRAINING MACHINE)

## Salient Features

- Floor Vibration is nil which keeps the machine steady.
- All Contact part and screen made of S.S. 304 / 316 quality.
- Easy dismantling and cleaning facility for contact parts.
- Noiseless, Maintenance free & High Speed Model.
- Electric Power requirement less than other Machines. Of the kind in the industries & lower energy consumption compared to reciprocating vibratory system.
- Double & Triple deck screens with outlet and hopper for bottom deck available on request.

## Technical Specifications

| TYPE                 | SUNVS20"            | SUNVS30"            |
|----------------------|---------------------|---------------------|
| MOTOR                | 0.5 H.P. / 1440 RPM | 0.5 H.P. / 1440 RPM |
| CHARGING HEIGHT**    | 750 mm.             | 1250 mm.            |
| DISCHARGING HEIGHT** | 550 mm.             | 880 mm.             |
| SCREEN DIAMETER      | 510 mm.             | 750 mm.             |
| CAPACITY / HOUR*     | 20 TO 100 Kgs.      | 30 TO 300 Kgs.      |

\*\* Depends on Customer Requirement.



# SUNCM COMMUNITING MILL



## Salient Features

- Designed to suit high speed milling needs with plain, water jacketed and flame proof options.
- Fully S.S. cladding on base & S.S. guards for all moving parts to meet GMP needs.
- Motor rails, screw and guide rods are chrome plated.
- Beater assembly bearings are housed in separate pillow blocks for ease in maintenance.
- Dynamically balanced fixed beater assembly as standard supply.
- Minimum downtime required to change direction.
- Fabricated to work long with very low heat, vibration & noise generation.
- Castors provided for mobility.

## Technical Specifications

| TYPE                 | SUNCM                                                          |
|----------------------|----------------------------------------------------------------|
| Rotor Speed          | 1000-2250-4500 RPM                                             |
| Blades               | Swinging type with knife and impact edge.                      |
| Screens              | Round hole perforated stainless steel sheet.                   |
| Electric Motor       | 7.5 H.P., 1440 RPM, 3 Phase.                                   |
| Overall Dimensions   | 690 (L) x 1270 (W) x 1700 (H) mm.                              |
| Net Weight (Approx.) | 310 Kgs.                                                       |
| Output (Kg / Hr.)*   | 25 to 300 (Various according to product, rotor speed & screen) |

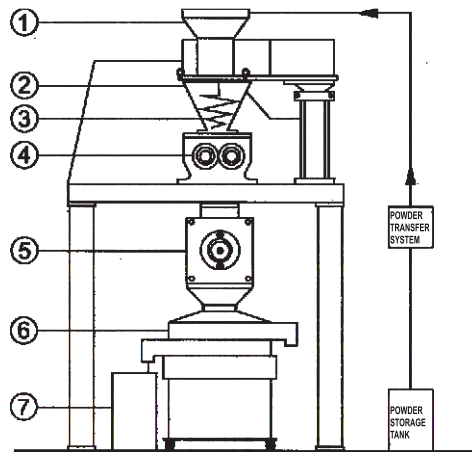
\* Output Depends Upon Materials Properties And Screen Size.

# ROLL COMPACTOR 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

| TYPE                   | 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              | Ø 200mmX50 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 Strew 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, 3 Ph              | 5 HP, 960 RPM, 3 Ph              | 7.5 HP, 960 RPM, 3 Ph            |
| Feed Screw Drive Motor | 3 HP, 1440 RPM, 3 Ph             | 3 HP, 1440 RPM, 3 Ph             | 3 HP, 1440 RPM, 3 Ph             |

(Also Available 200 / 150, 200 / 200 & 300 / 300 Model)

# LAB ROLL COMPACTOR 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

| TYPE              | 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  |



Plain Roller



Straight Knurling



Diamond Knurling



\* Output Depends Upon Materials Characteristics & Available Room Atmosphere only.



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# VACUUM CONVEYING SYSTEM FOR LOADING TABLET PRESSES



## Tablet Press Loading System

SM vacuum tablet press loaders are available in complete, ready-to-operate systems, for mounting on single or dual hopper tablet presses. Constructed from 316 Stainless Steel and USDA accepted.

### Salient Features

- Compact design receiver package with rates of 200-250 Kg. per hour.
- Eliminate manual scooping of product and messy dumping or mishandling. Draw material directly from drums, boxes, storage containers, process vessels.
- Dust-tight connection of receiver to press hopper provides maximum cleanliness and product integrity.
- Easy to clean. Four quick-acting heavy duty clamps facilitate disassembly for cleaning and service. No tools required!
- Automatic pulse jet filter cleaning ensures peak operating performance.
- Level sensor automatically starts conveying cycle when material level reaches low level in the tablet press hopper.
- Minimum maintenance - few moving parts.
- Complete package includes: receiver, power unit, vacuum, hose, conveying wand, and control panel.
- Mounting lugs for easy installation.
- Pi at source remotely, located. No lifting heavy cover with venturi power unit attached!

### Technical Specifications

| MODEL                       | SUNVTS                                             |
|-----------------------------|----------------------------------------------------|
| Capacity*                   | 200-250 Kg./Hr.                                    |
| Vacum Source                | Vacum Pump / Air-powered venturi / Electric blower |
| Filter media                | Unique Uni-filter                                  |
| Discharge Valve             | Full opening dump valve                            |
| Inlet Size                  | 1 1/2" inch                                        |
| Receiver Capacity           | 0.25 cu /ft                                        |
| Electrical Voltage          | 110/220 Volts, 50/60Hz., 1-phase                   |
| Material of construction    | 316 stainless steel                                |
| Level Control               | Automatic level sensor                             |
| Filter Cleaning             | Automatic pulse-jet                                |
| Compressed air requirements | 1/2" air line, 35 CFMQ60 PSIG                      |
| System Control              | PLC                                                |



## ONLINE VIBRO SHIFTER COMPACT SIEVE



Vibro sifters, also known as safety screeners, vibrating shifters, vibro sieves, check screeners or control sieves, are used to ensure the correct product quality of powders or liquids is achieved by removing oversize contamination. SM Compact Sieve ranges of sifters are incredibly versatile and can be used for size based separation of almost any material. These vibrating sifters fit neatly into production lines, providing considerable screening capacity without requiring excessive headroom. Its innovative design means these machines are less than half the height of a traditional circular vibro sifter machine. Operating and cleaning is quick and easy, making this range of sifting machines perfect for all processing industries. A wide range of sizes and options means the machine can be tailored to suit your exact needs.

### Technical Specifications

| MODEL              | SUNVS22"           |
|--------------------|--------------------|
| Motor              | 1 H.P. / 1440 RPM. |
| Charging Height    | 1330 mm.           |
| Discharging Height | 800 mm.            |
| Screen Diameter    | 610 mm.            |
| Capacity / Hour*   | 20 TO 300 Kgs.     |

*\* Output Depends Upon Materials Properties And Screen Size.*



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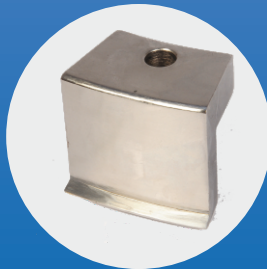
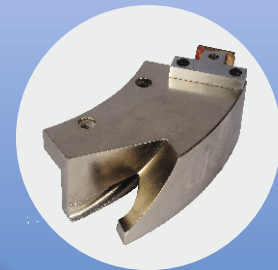
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# SPARE FOR TABLET PRESSES



We at SUNMACH Manufacturing of Pharma Machinery & Spares Since 1992. We have world class Technology of CNC & VMC Machines that ensure us to provide precision quality of replacement spares for tablet presses manufactured by other brands.



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