

MARUTI PHARMA MACHINERY

MANUFACTURER OF PHARMA MACHINERY

211, Plot No. 123-123/A, Pushpam Estate, Nika Tube Compound,
Phase-1, G.I.D.C., Vatva, Ahmedabad-382440 (Gujarat) INDIA.

+91 98988 80945



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QUTATION NO: - 27

DATE: - 19-05-2022

TECHNICAL SPECIFICATION OF FLUID BED DRYER – 60 KG M/C.





TECHNICAL SPECIFICATION: -

- Drying capacity: - 60 kg of product having initial moisture content from 20 to 25%
- Net capacity of product bowl 60 kg.
- Gross capacity of product bowl 70 kg.
- The fluid bed dryer Bowl of SS 316, mounted on a SS316 Trolley, fitted with a Flange on a top and 24/110 mesh Hollander weave SS316 screen with SS304 screen with SS316 Support plate at the bottom
- Plenum chamber is made from SS 316
- Expansion chamber is made SS316
- The product bowl is sealed from plenum chamber to expansion by means of inflatable sealing gasket with uniform gap.
- Spring laded assemble provides static discharge for product bowl and expansion chamber.
- The finger bags are made from cotton cloth to prevent static discharge and are connected to a pneumatically operated bag shaking device.
- The finger bag chamber and top dish end are made from SS316.
- The finger bag chamber is Provided with excess Pressure duct, which opens when excess pressure develops inside the fluid bed dryer.
- A blower 15 HP.
- The air inlet is provided with micron pre aC" filter, which traps dirt and suspended particles in air and has an manual adjustable damper
- Steam radiator heating temperature.
- Heater Chamber 2kw X 18 = 36 kw
- Easy observation windows of 150 mm dia are provided on the finger bag chamber/expansion chamber & Product bowl.
- SS316 Standard control panel for operating consist of R-Y-B lamp, on/off selector swish, blower on/off push button, steam on/off push button, inflatable sealing push button, timer, Temp controller cum indicator.
- Completer unit with all contact parts of SS 316 and Non-contact pates of SS316, internally.
- mirror finish and externally satin matt finish.

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TECHNICAL SPECIFICATION OF MULTI MILL M/C.





It operates on the principle of variable force swing beaters having both knife and impact edges rotating within a selected screen to get the required size reduction.

Material fed in the hopper, goes down to the processing chamber where it moves to the periphery and passes through the screen radially and tangentially. Finally, the processed material gets collected in the container kept below the processing chamber.

Output and quality of the final product depends on three main factors: (1) Shape of beaters (knife/impact edges) (2) Speed and (3) Screen.

Multi mill machines are widely used for wet and dry granulation, pulverization etc.

These machines find application in pharmaceutical, chemical, bulk drug, cosmetic, dyestuffs and food processing industries.

- Multi mill is used for high-speed Granulating, Pulverizing, Mixing, Shredding and Chopping, etc., of a wide range of wet and dry materials without special attachments. This machine utilizes the principle of variable force swing hammer blades having both knife and impact edges rotating with a carefully selected screen to control size reduction.
- Flow path of material in vertical rotor machine is streamlined. During comminuting, material entering the chamber travels to the periphery and passes through the screen tangentially and radially avoiding chocking and temperature rise.

Range:

<u>Product</u>	<u>Model</u>
MML 1	1 HP
MML 3	3 HP
MML5	5 HP
MML 7.5	7.5 HP

Salient features of Multi Mill:

- Machine Portable on Castor wheels.



- High output with Process uniformity.
- Direction of the Blade rotation can be changed using a Reversing switch for Hammer or Knife operation.
- Multiple combinations of Screen / Number of Blades.
- Direction of blade rotation for every Product type.
- Higher Screen opening area for Higher Throughput.
- Easy Dismantling and Cleaning of all Components reducing.
- Production Downtime and increasing Productivity.
- Wide range of SS perforated and Wire knitted screen available for every Product type.
- Minimal material handling resulting in Total Dust free operation.
- Additional perforated screen at the bottom of pulverizing chamber ensuring Higher Fineness and Controlled Size of Granules.
- Built in Variable Frequency Drive for multiple speeds.

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TECHNICAL SPECIFICATION OF SIFTER – 30" INCH.



TECHNICAL SPECIFICATION: -

Model	30''
Screen Size	750 mm
Output/hr	75 – 300 Kg depending upon the sieve size & Product
Special Vibro Motor	0.75 HP
Overall Dimension (L X W X H)	900mm X 900mm X 1250mm

Vibro Sifter are used for raw material sieving in pharmaceutical, food and chemical industry. Raw material is fed through in feed hopper and there is a sieve of required mesh size through which the sieved material falls. There is Vibro motor and spring type suspension system through which the vibration of the Vibro motor are transmitted to the sieve chamber. As the sieve vibrates the material gets sifted or sieved through it.

Salient features:

- Simplified design and construction which is maintenance free.
- All contact parts are from S.S. 316 and rest from S.S. 316.
- For dust free system, gaskets can be used at in feed mouth and at the outlet mouth of the sifter.
- Vibro motor gives trouble free performance for much longer time and so it is better than mechanical sifters.
- Removal of sieve is very easy as there are user friendly clamps for change of sieve or for removal of chamber.
- Ease of Cleaning.
- Castor wheel which are PU coated with stainless steel brackets and thrust bearings ensures easy movement of Vibro motor sifter in the

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TECHNICAL SPECIFICATION OF OCTACONE BLENDER – 250 LTR.





TECHNICAL SPECIFICATION: -

Net capacity	250 LTR
Gross capacity	280 LTR
Motor	3 HP
Gear box	4 NU
VFD Drive	3 HP
Butterfly Valve	6"

DESCRIPTION:

The Octa cone Blender Machine manufactured by us at MARUTI PHARMA MACHINERY is entirely suitable for the mixing of granular products. The machine also offers flexibility of operation as well as easy cleaning and maintenance. Simple structure with GMP – compliant design further enhances the functionality of the machine.

This Machine has been developed for mixing of various types of granular products. The machine is efficient and versatile used in mixing and lubrication processes on various industries. Some of the main industries of use include pharmaceutical production, food industries, chemical processing and also making of cosmetic products.

Octa cone Blender equipment has an octacone shaped body with a rectangular central portion. It is equipped with baffles that enable fast and efficient mixing as rapid charging and discharge ports with suitable butterfly valves. The equipment is highly suitable for areas where gentle blending of dry granules of powder is required.

OPERATION:

The octacone blender is an efficient and versatile blending machine for mixing and lubrication process of dry granules homogeneously. Two third of the volume of the cone blender is filled to ensure proper mixing. The octacoen blender machine gives best result for granules due to very slow speed and ocagon shape of container. It can be used for pharmaceutical, food chemical and cosmetic products ety. In octagonal the granules comes from all sides due to the



octagonal shape of the product container, hence requirement of rpm is less. Suitable mainly for crystalline & granular type material. This type of material gets sufficient continuous movement due to their shape if container have only slow movement and will results in good quality of blenfling / lubrication of granules.

Motor brand: - Havells, Abb

Gearbox: - Elecon,

SALIENT FEATURES: -

- Suitable for dry mixing of products in granule form.
- Easy for loading and unloading of material.
- Easy for cleaning.
- The octacone shape & slow speed of rotating gives sufficient continuous movement to the granules, result in good quality.
- Simple design requires minimum maintenance.
- General structure & safety guard made out of mild steel & coloured in Standard Model and made out of SS 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 low power consumption.
- Easy to clean and maintain in usage.
- Inclusion of a bin charging system that achieves a completely dust free operation.
- Reduced total powder cosumption that translates to efficiency and greater productivity.
- The octacone shape allows blending granules from all sides in a continuous slow movement that results in high quality blending and Inbrication of granules.

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TECHNICAL SPECIFICATION OF DOUBLE CONE BLENDER – 250 LTR.





TECHNICAL SPECIFICATION: -

Capacity	250 LTR
Working Capacity	280 LTR
Motor	3 HP
Gear Box	4 NU

Description

Double Cone Blender from **MARUTI PHARMA MACHINERY** is very efficient for mixing dry powder and granules to manufacture products for different industries such as pharmaceutical, food, chemical, cosmetics, detergents, fertilizers, plastics etc. Our cone blender ensures proper mixing of powder & granules. We specially design our blenders in such a way that you could avoid the generation of dust from double cone blender. Our skilled professionals have designed the interior of the blender in such a manner that it facilitates gravity discharge and eliminates the formation of dead spaces. With polished surface and no edges or corners, you can easily clean the machine manually or automatically.

Salient Features

- The conical shape of both ends enables uniform mixing and easy discharge.
- All contact parts are made out of SS304 quality material.
- Maximum care has been taken to ensure safe operation of the unit.
- Manual rotating facility with hand wheel for inching. The same will be provided with ss cover & limit switch. (In 250 KG. & Above model)
- Two nos. of safety road will be provided at back side.
- Suitable size of butter fly valve at one end of the cone provided for material discharge & hole with open able cover provided at other end of the cone for material charging & cleaning.



- Cone will be mirror polished from the inside & outside & structure will be matt polished.
- All moving parts covered with SS304 covers.
- Safety guards made from SS304 pipes provided in front of the m/c with limit switch.
- As per customer requirement machine will be provided with left side drive or with right side drive.
- The conical shape at both ends enables uniform mixing and easy discharge.
- All contact parts are made out of SS304/316(as per customer requirement) quality material.
- Maximum care has been taken to ensure safe operation of the unit.
- Worm reduction gear use for speed reduction.
- Food grade rubber gasket will be used on both end of cone as well as in butterfly valve.
- Inside & outside of the cone will be polished to the mirror finished.
- General structure made out of SS304 and Polished to the matt / mirror finish (as required by you) in GMP Model.
- All safety guards & covers made out of SS304 in GMP Model.
- Hand wheel will be provided for manual tilting of cone.
- Safety guards provided with limit switch to not start the machine when safety guards are not in proper position.

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TECHNICAL SPECIFICATION OF MASS MIXURE – 100 KG.



TECHNICAL SPECIFICATION: -

Net Capacity	100 KG
Gross Capacity	120 KG
Motor	5 HP
Gear box	4 NU

Mass mixer ideally used for mixing both wet & dry materials to provide uniform mixing. Designed with utmost precision & perfection our offered mass mixers are used for mixing & blending purposes. The mass mixer is suitable for mixing of wet mass, dry powder, dry powder with wet mass, etc, for the preparation of pharmaceutical mass for preparing tablets and similar other applications. The mass mixer gives through mixing due to its unique blade design and the angle of the blade. Powder & Mass Mixer machines are designed for efficient and homogeneous mixing of dry and wet powders.

Salient features:

- GMP Model.
- contact parts SS316, non-contact parts SS 304
- Compact design & Easy to clean and operate
- Single stirrer for dry & wet mixing
- Contact parts are mirror finished & non-contact part are matt finished.
- Safety guards are provided for all moving parts.
- Thrust bearings are provided to carry out rigid thrust load.
- Interlocking system with top dust cover, to avoid accident, during process.
- Tilting system provided for easy unloading of material & cleaning
- Provision for easy lubrication

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TECHNICAL SPECIFICATION OF PASTE KETTLE – 100 KG.



Product Specification

Net capacity	100 KG
Gross capacity	120 KG
Motor, Gear box	1 HP
Heater	4 KW

Product Description

The Tilting paste kettle is designed for paste preparation. It has a universal application resulting in uniform melting. This tank is designed to meet missing needs of wider range of products under varied operating conditions in chemicals, Foods, Cosmetics and Pharmaceutical Industry. The basic principle utilized in the design of this kettle is the jacket for passing steam in order to melt down the product to make paste. This kettle has a unique tilting arrangement for discharging the product.

Salient Features:

- ✚ Hemispherical design for proper mixing of paste.
- ✚ Jacket for heating element as a part of kettle.
- ✚ External jacket for Insulation as an option.
- ✚ Heating element via steam (Provided by customer).
- ✚ Inside mirror finish.
- ✚ Driven via motor & gear box assembly mounted on top.
- ✚ Discharge of paste via. Bottom from 8valve.

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✚ Anchor type impeller design for proper mixing of paste.

✚ GMP Model.

✚ ALL the contact part from SS-316.

✚ ALL the non contact part from SS- 304.

✚ Main pillar of Kettle will be from SS 304.

✚ Operating panel will be fixed on pillar.

<u>SR.NO</u>	<u>DESCRIPTION OF GOODS</u>	<u>QTY</u>	<u>RATE</u>
1	FLUID BED DRYER – 60 KG	1 NOS	682500/-
2	MULTI MILL M/C	1 NOS	143000/-
3	SIFTER – 30" INCH	1 NOS	97500/-
4	OCTACONE BLENDER – 250 LTR.	1 NOS	312000/-
5	DOUBLE CONE BLENDER – 250 LTR.	1 NOS	273000/-
6	MASS MIXURE – 100 KG.	1 NOS	292500/-
7	PASTE KETTLE – 100 KG.	1 NOS	325000/-
	TOTAL		
	GST 18%		
	<u>TOTAL AMOUNT</u>		

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Terms & Condition :

- Delivery : 45 days - after receiving the confirmed Purchase Order and advance payment in any form mention below or mutually agreed upon.
- Packing : Packing will be extra.
- GST : 18% Applicable.
- Transportation: extra at actual on to pay basis directly to the transporter.
- Payment :- 50% advance with 50% against PI before dispatch
- To and Fro ticket, lodging and boarding will be extra at actual for engineer visit during installation.
- Validity :- This quotation valid for 15 days only
- Inspection :- To be carried out by your representative Before Dispatch at our works
- Warrantee :- One year from the delivery of material Against manufacturing defect. Electrical items do not come in Warrantee.

Bank Details :

Account Name : MARUTI PHARMA MACHINERY

Bank Name :KOTAK MAHINDRA BANK

Account No. : 9898945954

Branch : VATVA BRANCH

IFSC Code : KKBK0000837

G.S.T. NO. : 24ABMFM3768L1ZO

