



**PAL  
PHARMA  
MACHINERY**



**Customized Equipments  
for Pharma Industry**

# PRODUCTS CATALOG

**Pharmaceuticals, Chemicals,  
Food & Allied Processing  
Machineries**

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# About



- *Directors Desk*

"Our Goal is to extend our market and impact by gaining the trust and certainty of clients all over the place. We are resolve to serve our esteemed customers by providing abnormal state innovation promotion the best quality items. We have confidence in conveying brief and the best client administration."

## Welcome To Pal Pharma Machinery





## Fluid Bed Dryer (FBD)

A fluidized bed dryer (also called fluid bed dryer) is a kind of equipment used extensively in the pharmaceutical industries to reduce pharmaceutical powder and granules moisture content. Drying is essential for wet granules for compression into the tablet and modifying viscous and socky materials' characteristics. Drying is commonly the last step in the unit process before compression into tablet form and packaging.

### Salient Features :

- Tri-level filtra on using: 20 microns for Pre Air filtra on 5 microns for Secondary Air filtra on 0.3 microns for Final Air filtra on through HEPA
- Air Dehumidification on special demand.
- Inlet / Outlet dampers have a proportional control valve.
- Proportional control temp controller.
- Inlet / Exhaust Local on: Several alternatives to suit customer requirements.
- Wash in place
- Control: PLC monitor with the printer as optional.
- Specially designed explosion flaps.

### Technical Specification

Model	PPM - 5	PPM - 15	PPM - 30	PPM - 60	PPM - 120	PPM - 200	PPM - 250	PPM - 300	PPM - 500
Container Vo. (Ltrs.)	15	45	100	200	440	650	800	980	1700
Batch Capacity in Kg.	5 - 6	15 - 20	30 - 40	60 - 75	120 - 150	200 - 225	250 - 280	300 - 300	500 - 500
Drying Temp. in Oc	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80	50 - 80
Motor H.P.	2	3	5	10	20	20	25	30	60
Heating load KW.	6	9	24	36	-	-	-	-	-
Approx. Steam Consumption Kg/Hr	15	15	25	50	100	160	200	250	430



## Rapid Mixer Granulator (RMG)



### Salient Features :

- Ensure the round and strong granules of high density
- Meets cGMP requirements Dry and wet granulation in one step
- A conscious energy saver
- Perfect leak proof operation
- PLC interfaced binder feeding, WIP, Auto Powder Loading
- Detachable impeller & chopper ensure 100% cleaning

### Technical Specification

Model	PPM-12	PPM-15	PPM-25	PPM-50	PPM-100	PPM-150	PPM-250	PPM-400	PPM-600	PPM-1000	PPM-1200
Gross Volume (Liters)	7.5	20	33	65	130	150	250	400	600	1000	1200
Working Volume (Ltrs.)	5	15	15	50	80	120	200	320	480	800	960
Impeller Motor HP	3 - 5	3 - 5	5 - 7.5	5 - 7.5	7.5 - 10.0	10.0 - 15.0	20.0 - 30.0	30.0 - 40.0	40.0 - 50.0	60.0 - 75.0	75.0 - 100.0
Impeller Blade RPM	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150
Chopper Motor HP	0.25 - 0.5	0.5 - 0.75	1 - 1.5	1.5 - 2.0	2.0 - 3.0	3.0 - 3.0	5.0 - 5.0	5.0 - 7.5	7.5 - 10.0	12.5 - 15.0	15.0 - 20.0
Chopper Motor RPM	1400 - 2800	1400 - 2800	1400 - 2800	1400 - 2800	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000	1500 - 3000

## Co-Mill

### Salient Features :

- Easy to clean.
- Minimum maintenance.
- Vacuum Loading option.
- The Bin charging Loading system can also be incorporated in it which is a dust free closed system for charging and discharging of powders or granules.
- Compact size online model also available.





## Starch Paste Kettle

### Salient Features :

- it is Specially Designed for Preparation of Binder Material.
- Hemispherical Kettle with Jacket Mounted on Trunnion Supports with the Help of Shaft.
- The Kettle has a Small Cylindrical top Shell With a Spout for Pouring out Binder Mass.
- Jacket is Provided with Steam Accessories, Pressure Gauge, Safety Valve and Vent Cock.
- The Kettle is also Provided with a Lever with Hand Wheel to Accomplish Tilting Manually.
- The Kettle is Provided with 16 Swg Thick S.S.304 Loses Lid.

## Coating Pan

Pal Pharma Machinery cGMP Model Coating Pan System

### Salient Features :

- Facility of angular adjustment of coating pan facilitate the perfect angle for coating different product.
- Available Sizes  
12" 24" 30" 36" 48" 60" 72"





## Octagonal Blender

### Salient Features :

- Octagonal Blender is supplied with a bin charging system or can be designed for vacuum charging.
- It is very useful machine for pharmaceutical industry where in gentle blending of dry granules of powders is to be done. It is a slow speed blender and has a removable baffle mounted through a rectangular openable lid, other important feature of this machine is ease of cleaning in place.
- The bin charging system can also be incorporated in it which is a dust free closed system for charging and discharging of powders or granules.
- Capacity available 5 L to 10000 L (higher capacity on demand upto 10000 L)



### Technical Specification

Model	Volume In Ltrs.	Discharge Butterfly Valve	Gear Box	Motor	Dimension L x W x H
PPM - 70	100	4"	2"	1 HP	1150 x 1160 x 1575
PPM - 140	200	6"	2"	1 HP	1560 x 984 x 1517
PPM - 210	300	6"	3"	1.5 HP	1625 x 1190 x 1641
PPM - 350	500	6"	3 1/2"	1.5 HP	1850 x 1304 x 1842
PPM - 525	750	8"	3"	2 HP	2000 x 1453 x 1986
PPM - 700	1000	8"	4"	3 HP	2230 x 1520 x 2060
PPM - 875	1250	10"	4"	3 HP	2380 x 1595 x 2122
PPM - 1050	1500	10"	5"	5 HP	2480 x 1643 x 2172
PPM - 1400	2000	10"	5"	5 HP	2700 x 1760 x 2290
PPM - 1750	2500	12"	6"	7.5 HP	2800 x 2010 x 2537
PPM - 2100	3000	12"	7"	10 HP	3000 x 2142 x 2671
PPM - 2450	3500	12"	7"	10 HP	3100 x 2289 x 2860
PPM - 2800	4000	12"	8"	12.5 HP	3150 x 2350 x 2890
PPM - 3500	5000	12"	8"	15 HP	3450 x 2436 x 2968



## Double Cone Blender

Double Cone Blender is efficient and versatile equipment for the homogeneous mixing of dry powders and granules. Dry powder mixing for tablets and capsule formulations. It can be used for pharmaceutical, food, chemical, and cosmetic products etc.

### Salient Features :

- Easy to maintain and clean
- There are no chances of clogging of material into comers
- A large amount can be handled easily
- It is efficient for mixing powders of different densities
- Wear on equipment is little



## Conta Blender

Conta Blending system has replaced completely the conventional blenders like 'V' shape / Double cone or Ribbon type. It is a latest cGMP concept with an emphasis on the dust free transfer of powders and granules at different stages from sizing / dispensing to compression / filing of Tablets or Capsules.

### Salient Features :

- 0° stopping for easy docking and undocking of the bin.
- A suitable fencing around the cage with an entry point for the bin on detachable trolley. Limit switch on entry door to prevent the accidental operation of the cage.





## Lifting & Positioning Device

### Salient Features :

- Simple to work and clean.
- Completely shut task to abstain from cleaning.
- Can associate with granulator for continuous release.
- Simple to brace with liquid bed dryer bowl.
- MOC SS 304/316.

## IPC Bin

### Salient Features :

- Available from 60 Ltrs. To 1200 Ltrs.
- Available in cylindrical as well as square polygon shape.
- cGMP with SS 316 contact parts.
- Sanitary design suitable for easy cleaning.
- Inside and outside welds ground to smooth finish and flush to mirror finish.
- Outlet butterfly valve for ease in discharging the stored materials.
- Tailor made construction available on demand.



IPC bins or the integrated process bins are special types of containers used in the handling of special chemical powders, dusts and granular materials mainly in the pharmaceutical industries. This process is done to create a dust free operation and ensure no human contamination occurs. There is total control of containment, and cross contamination is not possible.





## Multi Mill

### Salient Features :

- MOC :  
SS316L / SS316 / SS304
- Suitable for dry granulation/pulvizeing /shredding and chopping of materials.
- Models :  
1HP / 3HP / 5HP / 7.5HP

## Vibro Sifter

### Salient Features :

- MOC :  
SS316L / SS316 / SS304
- Flame proof motor with FLP push button switch.
- Magnetic arrangement for trays of iron particles.
- Extra deck available
- GMP Model





## Ribbon Blender



We have become the leading association involved in offering an extensive array of Talcum Powder Manufacturing Plant / Talcum Powder Mixing Machine to our honored clients. It is manufactured using an excellent quality mechanism and pioneered technology as per the set industry standards. This machine is carefully observed on numerous parameters by our quality experts to eradicate any flaw.

Keeping the excellence in this field, We manufacture and supply the Talcum Powder Mixing Machine's best quality. Due to its excellent mixing capacity and robust construction, the offered powder mixing machine is highly demanded in Indian and International markets. Our customers can avail of this mixing machine in various technical specifications.

## Mass Mixer

### Salient Features :

- Design is cGMP - Current Good Manufacturing Practices compliance.
- All contact parts AISI 316 & non contact parts AISI 304.
- Uniform Mixing with paddle blade stirrer.
- Self adjusting sealing arrangement to avoid entire black particles.
- Tilting device for easy unloading and cleaning.
- The interlocked acrylic covers of product container, enclosed drive & Overloads relay protection.



The Mass Mixer is designed for uniformly mixing of dry and wet material and especially suitable for powder of Pharmaceuticals, Food, Herbals, Agro Chemicals & Chemicals.



## Ointment / Shampoo / Gel Manufacturing Plant



We are one of the topmost manufacturers, suppliers, and exporters of premium quality Shampoo Manufacturing Plant. These plants are enormously appreciated for their steady performance, minimum maintenance, easy operations, and low power consumption.

### Salient Features :

- Integration into the existing process control system
- Fast product change over
- Homogenous product consistency without trapped air bubbles.
- Mixing, dispersing, and homogenizing in one operation
- Capacity: 50 Ltrs to 10000 Ltrs.

## Tube Filling Machine

The Tube Filling Machine shall be used for filling and sealing of tubes such as laminate tubes, aluminium and plastic tubes for semi-solid products. The Tube Filling Machine shall automatically operate to fill laminate tubes, aluminium tubes or plastic tubes with semi-solid products (Semi-solid products such as cream, gel and ointment.) and seal the bottom of the tube with filled products with heat sealer or crimper.





## Syrup Manufacturing Plant



We provide customized, end to end solutions for Liquid Syrup Manufacturing Plant that are fully automated with PLC controls or semi-automated as required. Our plants are designed with the highest quality of fabrication standards using the best components and instruments. Liquid oral manufacturing plant are also fully optimized for delivering the best performance with reduced life-cycle cost.

### Salient Features :

- The complete line is manufactured under cGMP standard.
- All contact parts are made of ss316.
- The plant is designed to be operated by one operator and one helper saving on precious manpower cost.
- Easy to assemble, fit and clean.
- The sugar melting vessel is designed for internal vacuum to facilitates.
- Transfer of sugar directly from stores to sugar syrup vessel.
- Sugar syrup is transferred to the manufacturing vessel through online sugar syrup pre-filter.
- (Basket filter) by vacuum/pump.
- Entry of all propeller agitations are from bottom through a specially designed mechanical seal face.

## Liquid Filling Machine

The machine has a strong base to give trouble-free operation. The offered machine's cover manufactured using stainless steel alloy with a mirror polish. Also, the basic unit consists of SS conveyor belt with extra 1/2 HPAC motor and A.C aviator for conveyor speed. It has easy volume setting with the eccentric screw and filling assembly is the diving type with no dripping problem.



## Air Tray Dryer



We are the leading company for tray dryer manufacturing and supply in India. The tray dryer is used for the drying of the wet products of the crude drugs, chemicals, powders or the granules, etc.

## Vacuum Tray Dryer



### Salient Features :

- Stainless steel construction (SS 316L/316/304)
- Easily removable hollow pad type heating shelves
- Dedicated fluid heating and circulating systems
- The thermal efficiency of 60% to 80%
- Provision for Explosion Vent / Rupture Disc on body & Validation Port on Body  
On Chamber Vacuum break valve is provided

## Rotocone Vacuum Dryer

Rotocone Vacuum Dryer is suitable for drying materials that cannot resist high temperature, easily oxidized materials, volatile materials that should be retrieved and potent irritants and poisonous in nature. The Rotocone Vacuum Dryer with improved technology integrates during operation under vacuum.





## Zero Holdup Sparkler Filter Press

### Salient Features :

- The complete line is manufactured under cGMP standard.
- All contact parts are made of ss316.
- The plant is designed to be operated by one operator and one helper saving on precious manpower cost.

## Pressure Nutsche Filter

### Salient Features :

- 316 Stainless Steel fabrication or other alloys including Hastelloy C-276/C-22 optionally available.
- For aqueous regia production nutsche filter available with halar or tefzal coating.



## Membrane Holder Filter

### Salient Features :

- Model Available : 142mm & 293mm Dia.
- M.O.C. : S.S. 304 / 316 / 316L
- It is provided with center & non sticky S.S. Perforated Sieve, Silicon 'O' Ring Detachable S.S. Stand and with inlet outlet connection etc.

## Inline Homogenizer

Inline Homogenizer is made up of sturdy construction and can be moved from one place to another. It is necessary to mix one or more substances within a liquid. This device is been used to micronize and scatter the particles that are suspended in the fluid.





## Reactor

With firm commitment to quality, we are engaged in manufacturing and supplying Pressure Vessel with agitator. Offered storage tanks are high in demand among customers as these are manufactured utilizing best grade raw material, sourced from honorable vendors while keeping in mind the globally laid quality standards of the industry. Post production, we make these storage tanks pass a quality check so as to ensure their peerless features.

## Pressure Vessel

Pressure vessels are leak-proof containers that store liquid or gas. Pressure vessels of various sizes and shapes have been produced for different purposes. Generally, preferred geometries are spherical, conical, and cylindrical. A typical model is the combination of a long cylinder with two heads. Pressure vessels work at internal pressures higher or lower than air pressure.



## Storage Vessel

We have been supplying stainless steel tanks and process equipment to the brewing, beverage, food, waste, pharmaceutical and chemical industries. We also supply mild steel tanks. we handle the increasing demand for high quality stainless steel storage and process vessels from a wide range of industries – each with its own requirements.

## Our Customers



**adrhim**



**Elder**



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