



**PAAL
PHARMA
MACHINERY PVT. LTD.**



**Customized Equipments
for Pharma Industry**

PRODUCTS CATALOG

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

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www.palpharmamachinery.com





Director's

- 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."

About

Welcome

To

PAAL

PHARMA

MACHINERY PVT. LTD.

WE ARE SERVING Formulation Process

- **Tablet Section,**
- **Injectable Section**
- **Capsule Section**
- **Semi Solid Section**
- **Liquid Section**
- **OSD Section**
- **Oncology Section**
- **API**
- **Chemical**
- **Organic**
- **Agrochemical**
- **Pigment**
- **Food**
- **Intermediate**

Tablet Section



Integrated Granulation Suite

PAL PHARMA's IGS facilitates in having a single wall design from Sifting to Blending process thereby encompassing the complete process in a closed loop to avoid exposure. The design is so unique that all equipments are positioned ergonomically as well as aesthetically giving a new look and feel. PAL PHARMA's IGS is available in 5 kg, 10 kg, 15 kg and 20 kg design based on the end user batch capacities. The design is such that Commercial scalability is very well kept in mind for End Users commercial batches as well.

Tablet Section

Fluid Bed Granulator



About

In compliance with cGMP guidelines

Single Pot technology for mixing, granulating, drying, blending.

Yield nearly approaches 99% with negligible handling losses due to single pot.

Quick Dismantling of Dutch Sieve & Perforated

Sheet at the Product container

Online Sampling Device (Optional)

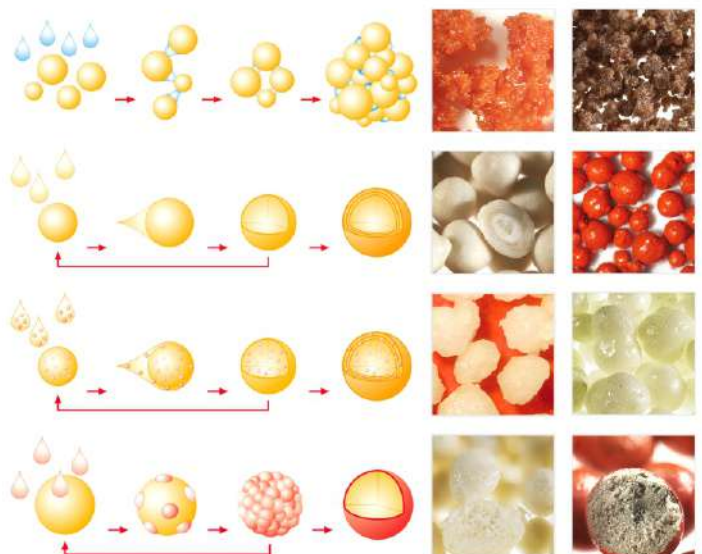
Fully Automatic Operation through Programmable

Logic Controller

Accurate temperature control within $\pm 2^{\circ}\text{C}$

Flameproof Construction (Optional)

Bottom Spraying system (Optional)



Tablet Section



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



Starch paste kettle

Salient Features :

- It is Specially Designed for Preparation of Binder Material.
- Hemispherical Kettle with Jacket Mounted on stand 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 Tilting Manually
- The kettle is Provided with 16 Swg Thick S.S.316 Loses Lid.

Tablet Section



Multi Mill

Salient Features :

- MOC :
SS316L / 55316 / 55304
- Suitable for dry granulation/pulvizeing /shredding and chopping of materials.
- models:
1HP / 3HP / 5HP / 7.5HP



CO - MILL

Conical mill or Co mill is the ideal technology for size reduction, de-agglomeration and powder dispersion.

Co-milling of a drug with a co-former is an efficient technique to improve the solubility of drugs.

The Co-Mill comprises a vertically mounted rotating impeller which moves material across a mill screen causing a low velocity cutting action on the particle.

Besides the particle size reduction, the co-milling process induces a structural disorder and the creation of amorphous regions.





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)



DOUBLE CONE BLENDER

The double-cone Blender is a practical and versatile machine for blending dry powders and granules into a uniform consistency.

It is an ideal dry mixer with double-cone shape product container for granule lubrication, product homogenization, and mixing multiple batches into one.

In this type of blender, mixing takes place axially, as a result of the powder moving through the different sections.

It is used for dry powder mixing for tablets and capsule formulations.

Tablet Section



About

In The Fast-paced World Of Pharmaceutical Manufacturing, Every Second Counts. That's Why Advancements In Technology Play A Vital Role In Optimizing Productivity And Efficiency. One Such Revolutionary Technology Is The Autocoater, A Game-changer In The Industry. The Autocoater Is A Sophisticated Machine That Automates The Coating Process Of Pharmaceutical Tablets And Capsules. It Ensures A Uniform And Precise Coating, Delivering Consistent Quality And Reducing The Risk Of Human Error. With Its State-of-the-art Features And Cutting-edge Design, This Technological Marvel Has Taken The Pharmaceutical World By Storm. The Autocoater's Ability To Coat Large Batches Of Pills At A Time Has Significantly Increased Production Speed, Making It An Indispensable Tool For Pharmaceutical Manufacturers. Its Intuitive Interface Allows For Easy Programming And Monitoring, Resulting In A Streamlined Manufacturing Process. Moreover, The Autocoater's Energy-efficient Design Translates Into Cost Savings And Environmental Benefits.

AUTO COATER



Proprietary GHPN-IIIRD spray nozzles

- Anti-bearding
- No elastomeric contact parts = easy to maintain + lower risk
- 30% less compressed air consumption*
- Less than 5% spray losses
- Wide spray coverage with uniform droplet size
- compared to industry standards

Astonishingly Smooth Coating Pan

- Less than 0.1 Ra value for defect-free tablet coating
- High open area for maximal drying efficiency
- Optimized pan geometry for fast and uniform coating



Tablet Section



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

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"



Tablet Section



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/dispersing to compression / filling 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.

Injectable Section



Sterile Manufacturing Plant

Design as per ASME / BPE standards

Available 100 litre to 2000 litre

Internally Electro polished surface with 0.4 Ra finish

All contact parts made out of SS 316L quality

Jacketed & insulated vessel with SS 304 cladding

Provision for CIP / SIP facility

Zero dead leg Flush bottom valve

Variable speed drive for adjusting different speeds

Steam / Electrically heated

Volume measurement inside the tank through Load cell / capacitance type level indicator (optional)

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



Membrane Holder Filter

Salient Features:

Model Available: 142mm & 293mm Dia.

M.O.C.: 5.5. 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.

Semi Solid Section

- Gel Manufacturing Plant
- Toothpaste
- Face Wash
- Cosmetics
- Shampoo
- Lotion
- Cream
- Balm



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



Liquid Section



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.



Dryer

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.



Filter



Zero Holdup Sparkler Filter Press

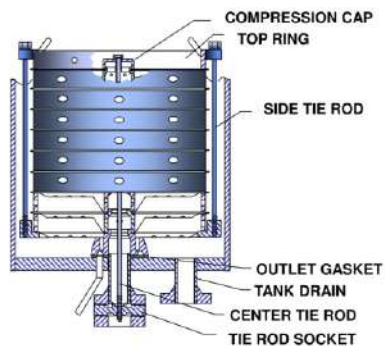
Salient Features :

- 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.

Sparkler Filter Assembly



HORIZONTAL SCAVENGER FILTER, ASSEMBLY DETAIL



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.



Our Customers



Factory Address:

Office: 323 Infinity Square Chinchpada, Vasai East, District Palghar Maharashtra-401208

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Quality is Our Pride

