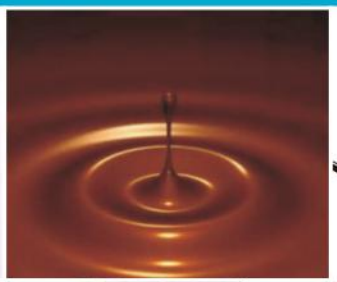
interesting engineering for life..™



LIQUID & SEMI LIQUID MANUFACTURING

Prism Pharma Machinery®

An ISO 9001 - 2015 Certified Company

PRISM

TÜV SÜD ISO 9001

CE

Greetings,

Prism Pharma Machinery founded in 2003 and has been manufacturing process equipments for process of Powder, Liquid & Semi Liquid in application in Pharmaceuticals, Biotech, Nutraceuticals, Cosmetics, Foods, Dairy, Bakery, Confectionery, Agro Chemical, Chemicals, Herbals, Paints, Ceramics &, Catalysts for production, pilot & lab scale batch size.

Prism Pharma Machinery have wide range of equipments for processing for drying, granulating, mixing, milling, blending, tabletting, coating, pelletizing, homogenizing, material conveying & cleaning as well as process integration and process automation service. Prism focuses on specialized mechanical engineering, especially process engineering and automation engineering by applies innovative technology approach and quality standard. We obtained the ISO 9001:2015 certificate and CE certificate for our products.

We sincerely would like express our thanks to our customers for supporting and affection. Prism has been and will be working more closely with all its precious customers and partner companies, keeping deep in mind the fact that sharing efforts makes sharing fruits.

Thanks you…..

Prism Pharma Machinery

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Vacuum Homogenizer Mixer/ Ultra Mixer

Vacuum Homogenizer Mixer is applicable for a wide variety of viscosity product, i.e. emulsions and semisolid. It integrates with pressure, heating, cooling and vacuum for agitating, mixing, emulgating, dispergating, suspending, homogenizing & agglomeration functions in single machine.

Agitator Mixer :
Two low speed agitator, counter rotating mixer with outer anchor stirrer with self pressure Teflon scrappers and controls rotating inner paddle blade.

Ultra Mixer is a combination of counter-rotating inner paddle agitator and outer anchor agitator, generating a disturbance in the normally circular flow pattern and dampens vortex formation. The blades of paddles are pitched to promote top-to bottom flow. In addition, self adjustable scrapper are utilized to prevent the build-up of a stagnant film between the agitator and the vessel, and assure efficient heat transfer to product during heating and cooling steps.

High Speed Homogenizer :
Toothed rotor/stator type homo disperser, locates at the bottom of the vessel, accomplishes emulsification by physical action and centrifugal force created by high speed rotation of the rotor. These actions break up oil phase/ aqueous phase liquid stream into tiny and discrete droplets.

Design Features :
Design compliance with cGMP
- Integrated cleaning in place-CIP.
- Sterilizing in place-SIP as an option.

Batch Size
- Available model 10 Liter to 6000 Liter working capacity.

Materials
- Product contact AISI 316L.
- Food grade silicon rubber for seal.

Vessel Deign
- Jacket for heating & cooling.
- Vacuumize process.
- Vessel inside pressure (-1 /+2 Bar)
- Heating jacket pressure (-1 /+6 bar)
- Tilting vessel up to 500 Liter.

- Heating by steam or hot water circulation.
- Direct cooling with water.
- Temperature controller & safety pressure valve.
- Bottom discharge with valve.

Agitator mixer with scrapper :

- Mixing flow top to bottom in vertical axis.
- Outer anchor agitator with paddle with 45°C.
- Inner paddle agitator with 45°C.
- Teflon scrappers on outer agitator.
- Scrapper cleanly working on both side.
- Optimize heat transfer.
- RPM steplessly with variable speed drive.

High speed Homogenizer :

- Toothed rotor-stator type.
- RPM steplessly with variable speed drive.
- High shear & pressurization of the homogenizer.
- Thus homogenization of high viscosities up to 400.000 mPas.
- Homogenizer mounted on lower position in the centre of vessel.
- Can be homogenization in circulation.

Top Lid :

- Motorized top lid for lifting & lowering.
- Safety interlock process with limit switch.
- Connection for vacuum, charging, eye glass window, light glass, CIP,SIP, pressure gauge & safety valve.

Vacuum System :

- Vacuum pump.
- Vacuum gauge.

Machine Structure :

- Rigid modular structure with AISI 304.
- Mounting on anti vibration pad so, no foundation require.

Controls & Visualization :

- Electric controls with digital display.
- Optional PLC controls with HMI touch screen.
- RPM and process time entries.
- Temperature controls- heat/cool.
- Vacuum start- stop.
- Integrated data recording for batch.
- SCADA System with 21 CFR part 11 complience.
- Optional 4 point load cell for weight measurement.

Safety Features :

- Emergency stop button.
- Safety pressure valve.
- Limit switch at top lid.

Technical Specifications

Machine Description	PVM 10	PVM 25	PVM 50	PVM 75	PVM 150	PVM 250	PVM 500	PVM 1000	PVM 1500	PVM 2000	PVM 3000	PVM 6000
Total Volume (Liter)	12	34	72	100	204	340	647	1365	1855	2600	3900	7400
Working Volume (Liter)	10	25	50	75	150	250	500	1000	1500	2000	3000	6000
Width (mm)	600	685	800	800	1000	1000	1200	1500	1600	2100	2400	2700
Length (mm)	1620	1340	1700	1700	1850	2000	2650	3500	3300	2100	2400	2700
Height (mm)	1780	1823	2100	2100	2600	2600	3125	3700	4000	4300	4800	6100
Main Agitator Motor (kW)	0.55	0.75	1.5	1.5	2.2	4.0	5.5	7.5	11.0	11.0	15.0	18.5
Counter Rotating Motor (kW)	0.37	0.55	0.75	0.75	1.5	2.2	4.0	5.5	7.5	7.5	11.0	15.0
Homogenizer Motor (kW)	1.1	1.5	2.2	2.2	4.0	5.5	7.5	30.0	40.0	22.0	30.0	45.0
Tilt able Vessel	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No

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Ointment Cream Paste Gel Manufacturing Plant

Ointment / Cream / Tooth Paste / Gel Manufacturing Plant

Semi solid manufacturing Plants are ideal tools for the pharmaceuticals & cosmetics industries for the production of ointment, cream, lotion, gel, tooth paste & emulsions & homogenization.

Fully automatic ointment, cream, tooth paste, gel manufacturing plant consisting of

- Pre determined water phase vessel.
- Pre determined oil, wax, petroleum jelly phase vessel.
- Vacuum homogenizer mixer vessel.
- Vacuum pump.
- Storage vessel.
- Interconnecting pipeline.
- Transfer pumps (bump pump, lobe pump & metering pumps).
- Integrated automatic control panel.
- Working platform.

Design Features :

Design compliance with cGMP

- Integrated cleaning in place-CIP.
- Sterilizing in place-SIP as an option.

Batch Size :

- Available model 50 liter to 5000 Liter working capacity.

Materials :

- Product contact AISI 316L.
- Food grade silicon rubber for seal.

Water Phase Vessel :

- Jacket for heating & cooling.
- Heating jacket pressure (6 bar).
- Heating by steam or hot water circulation.
- Propeller stirring with top mounting.
- Temperature controller & safety pressure valve.
- Bottom discharge with valve.

Wax Phase Vessel :

- Jacket for heating & cooling.
- Heating jacket pressure (4 bar).

- Heating by steam or hot water circulation.
- Propeller stirring with top mounting.
- Temperature controller & safety pressure valve.
- Bottom discharge with valve.

Manufacturing Vacuumize Homogenizer Vessel :

- Jacket for heating & cooling.
- Vacuumize process.
- Vessel inside pressure (-1 /+2 Bar).
- Heating jacket pressure (-1 /+6 Bar).
- Heating by steam or hot water circulation.
- Agitator mixer with self pressure teflon scrapper.
- Scrapper cleanly working on both side.
- High speed homogenizer with toothed rotor-stator type.
- Steplessly variable speed drive for agitator homogenizer.
- High shear & pressurization of the homogenizer.
- Thus homogenization of high viscosities up to 400.000 mpas.
- Homogenizer mounted on lower position in the centre of vessel.
- Top lid with motorized top lid for lifting & lowering.
- Safety Interlock process with limit switch.
- Connection for vacuum, charging, eye glass window, light glass, CIP,SIP, pressure gauge & safety valve.
- Temperature controller & safety pressure valve.
- Bottom discharge with valve.

Vacuum System :

- Vacuum pump.
- Vacuum gauge.

Storage Vessel :

- Skid type storage vessel.
- Bottom cone is jacket for heating.

Inter Connecting Pipe :

- Inter connecting pipe line of all vessel for transfer water, wax & products & recirculation in manufacturing vessels.
- Vacuum connecting pipe.

Working Platform :

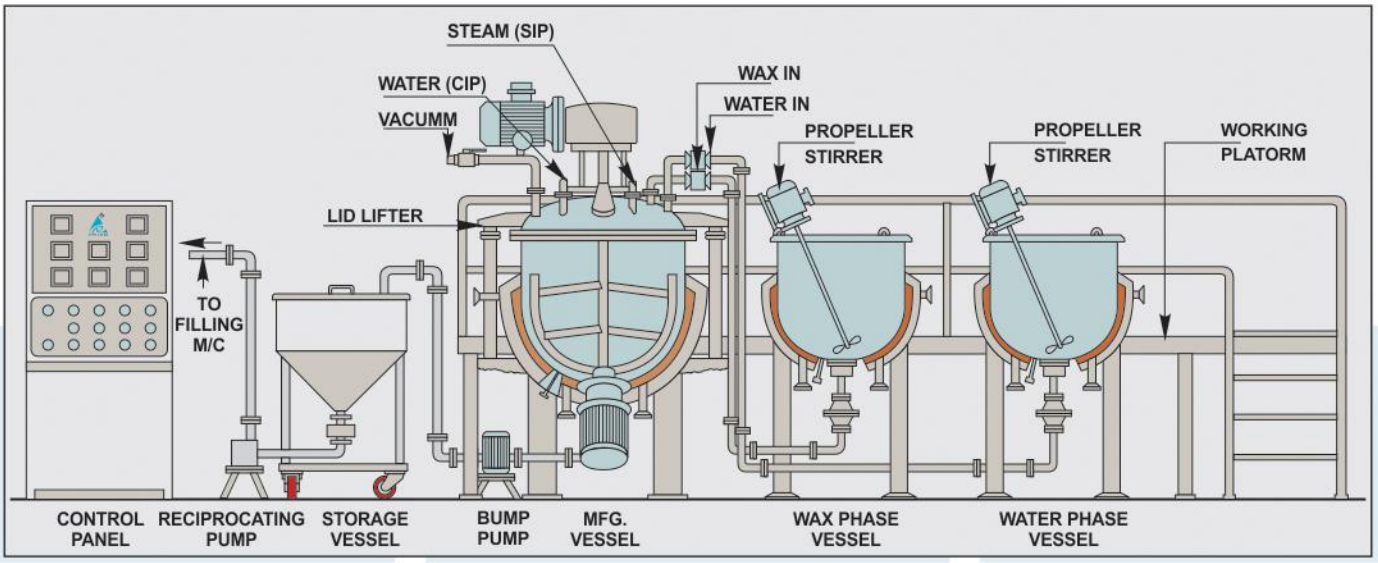
- Rigid structure with anti slipping embossed plat.
- Made from AISI 304.

Controls & Visualization :

- Electric controls with digital display.
- Optional PLC controls with HMI touch screen.
- RPM and process time entries.
- Temperature controls-heat/cool.
- Vacuum start-stop.
- Integrated data recording for batch.
- SCADA System with 21 CFR part 11 complience.
- Optional 4 point load cell for weight measurement.

Safety Features :

- Emergency stop button.
- Safety pressure valve & gauge.
- Limit switch at top lid.



Ointment/ Cream Manufacturing Plant consist of the following

1. Water heating vessel.
2. Wax melting vessel.
3. Main manufacturing vessel.
4. Storage vessel.
5. Interconnecting pipeline.
6. Pumps (bump pump & metering pumps).
7. Integrated automatic control panel.
8. Working platform.

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Preparation Vessel, Oral Syrup Manufacturing Plant

Liquid Syrup Manufacturing Process

Prism has been designed & manufacturing preparation vessels and has consolidated a process knowledge concerning sterile injectable solution, dispersions, ophthalmic products, suryup and suppositories.

Preparation Vessels & Tank :

- Extremely hygienic processing.
- Least manual handling .
- Design compliance with cGMP.
- Capacity up to 10,000 Liter.
- Product contact AISI 316L.
- Atmospheric, vacuum or pressure operation.
- Jacket for heating & cooling.
- Vessel inside pressure (-1 /+2 Bar).
- Heating jacket pressure (-1 /+6 Bar).
- Heating by steam or hot water circulation.
- Thermal insulated.
- Mechanicals or electro polishing of internal surface.
- Welded, flanged or hinged type cover.
- Integrated cleaning in place-CIP.
- Sterilizing in place-SIP as an option.
- Portable execution on request.
- Validation protocols & instrumentation celebration.

Variable Speed Agitation :

- Agitator can be top or bottom driven or magnetically driven.
- Propeller type, anchor type provided with high speed disperser or rotor-stator homogenizer.
- Single or double mechanical seal.

Fully Automatic Liquid Syrup Manufacturing Plant & Consisting of As Following Diagrams :

1. Sugar charging / transfer system.
2. Sugar melting vessel with mixing stirrer.
3. Basket filter & transfer pump.
4. Syrup manufacturing vessel with stirrer.
5. Inline homogenizer.
6. Zero hold up filter press.
7. Storage tank with stirrer.
8. Interconnecting pipeline.
9. Transfer pumps.
10. Integrated automatic control panel.
11. Working platform.

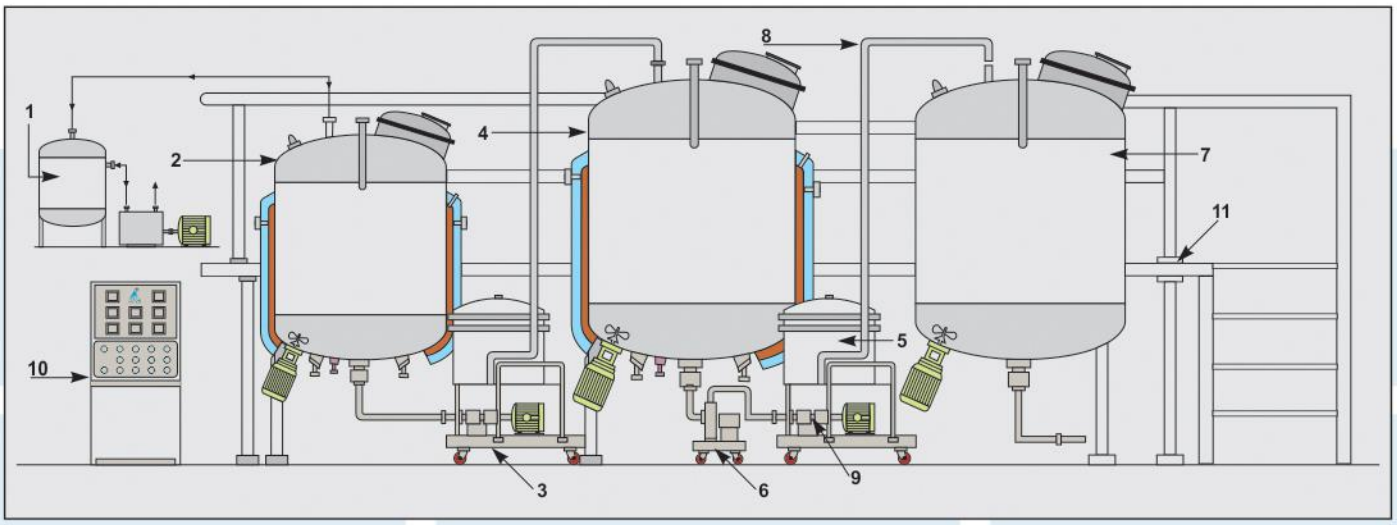
Turn Key Process Line :

- For production, filtration, transfer and storage solution.
- Preparation vessels.
- Inline homogenizer.
- Inter connecting pipe
- Solid or sugar charging system
- Working platform.

Automation Available, Appropriate For The Intended Process Function, Including CIP And SIP:

- Controls of all function by PLC controls with HMI touch screen.
- Level controls by means of capacitance probe or electronic load cells.
- Digital indication an control of all process parameters for agitator speed, temperature, pressure& level.
- SCADA System with 21 CFR part 11 complience.
- Optional 4 point load cell for weight measurement.

Syrup Manufacturing Plant Diagram



Prepration vessel, Reactor & Storage Tank

Prism has been designed & manufacturing preparation vessels, Reactor and storage tank and has consolidated a process as customer needs.

PREPARATION VESSELS, REACTOR & TANK :

- Design compliance with cGMP
- Capacity up to 25,000 Liter.
- Product contact AISI 316L/316/304.
- Vertical & horizontal design
- Atmospheric, vacuum or pressure operation.
- Plain, jacket for heating & cooling.
- Option for heating by steam, hot water tharic fluid oil & electric.
- Thermal insulated.
- Mechanicals or electro polishing of internal surface.
- Welded, flanged or hinged type cover
- Integrated cleaning in place-CIP.
- Sterilizing In place-SIP as an option.
- Option for mounting on legs or flange.
- Portable execution on request.
- Validation protocols & instrumentation celebration.

VARIABLE SPEED AGITATION :

- Agitator can be top or bottom driven or magnetically driven
- Propeller type, anchor type provided with high speed disperser or rotor-stator homogenizer.
- Single or double mechanical seal.

TURN KEY PROCESS LINE :

- For production, filtration, transfer and storage solution.
- Pre reparation vessels.
- Inline homogenizer.
- Inter connecting pipe.
- Solid or charging system.
- Working platform.

Automation available, appropriate for the intended process function, including CIP and SIP :

- Controls of all function by PLC controls with HMI touch screen.
- Level controls by means of capacitance probe or electronic load cells.
- Digital indication an control of all process parameters for agitator speed, temperature, pressure & level.
- Optional IPC with SCADA system 21 CFR part 11 complience.
- Optional 4 point load cell for weight measurement.

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Homogenizer

Liquid High Shear Homogenize Mixing and Dispersing Inline Process

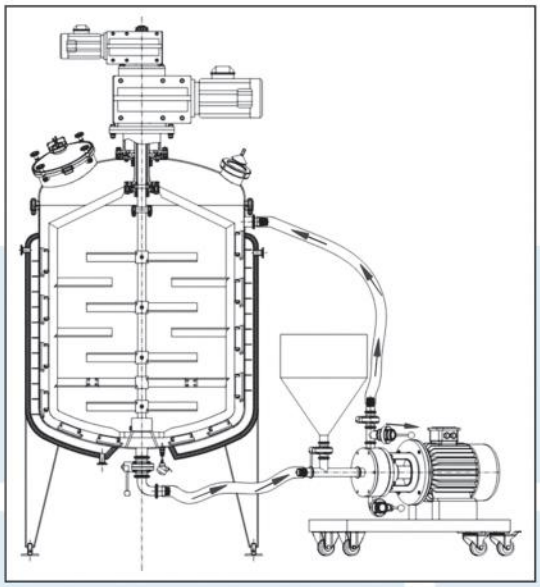
The homogenizer is often necessary to mix one or more substances within a liquid. This device allows to micronized and scatters the particles suspended in the fluid, so that the product become highly stable, no matter the followings treatments and stockings the products may undergo. The homogenizer delivers unparalleled consistency and control of high shear process applications such as, immiscible phase emulsifying, homogenizing, wet grinding, texturing, deagglomeration and fine dispersing.

The product arrives to the homogenizing at a low speed and at high pressure (cause by the little gape between the passing head and collision head). During the passage the product is subjected to numerous forces which cause the particles micronization: a violent acceleration followed by an immediate deceleration that produces cavitations and then the globules explosion. Strong turbulence united to high frequency vibrations. Collision cutting strengths derived from the laminar passage between the homogenizing valve surfaces and the following impact with the collision ring.

Incorporating up to single sets of toothed rotor-stator heads, engineered to extremely fine radial tolerances, the emulsifier processes product at high differential velocities, as many as 18 times in a single-pass. The result is consistent, repeatable quality at capacities exceeding those of conventional multiple-pass technology, such as in-tank high-shear mixers, colloid mills and shear pumps.

Salient Features :

- Design is cGMP with all contact parts AISI 316.
- Capacity up to 5,000 liters.
- Single-pass processing results in reduced batch times by up to 80% and repeatability batch-after-batch.
- Energy savings when compared with in-tank mixers, colloid mills and homogenizers.
- Increased capacity when compared with colloid mills and homogenizers.
- Improved product quality and shelf-life stability.
- High differential velocities.



Dispohomo Reactor

Liquid High Shear Homogenize Mixing and Dispersing Inline Process

Application & Process :

Prism has been developed a new modular construction series for high shear homogenizer. With this dishomo reactor series of machines it became possible to carry out different process steps like dispersing with “high shear”, milling or continuous mixing of solids and liquid with only a few modules.

Dishomo reactor delivers unparalleled consistency and control of high shear process applications such as, immiscible phase emulsifying, homogenizing, wet grinding, texturing, deagglomeration and fine dispersing.

A three-stage high - shear dispersing machine for the production of macro-emulsions and very fine suspensions. Due to the three generators (rotor-stator) in direct series a narrow distribution range, smaller droplets and particles and thus a longer stability of the mixture are reached. The generators are easily dismantle for clean and wash.

Technical Specifications

Model	PDH-2000
Max Flow capacity	2500 liters- H2O / hours
Drive speed 1/min	4400
Motor Power	5.5 Kw / 7.5 HP
Connection Inlet	DN 40
Connection Outlet	DN 32
Sealing	Mechanical Seal with continues cooling

Agitator-Stirrer

Dispersing, Suspending, Emulsifying & Homogenizing Technik for Liquid and Paste

Application & Process :

Prism designs and manufactures a wide range of agitators for liquids and paste for process in the pharmaceutical, chemicals, foods, cosmetics and similar industries. Agitators are provided with different types of agitation components for process such as mixing, blending, dissolution, dispersion, homogenization, reaction, fermentation, oxidation, digestion and emulsification of liquid, paste, ointment, solution, viscous material and solid-liquid.

Agitators are designed and adapted to any vessel and can be implemented with or without lower support. Different types of blades can be combined depending on the process requirements. The sealing system are designed and adapted depending on the requirement of the various process and start from simple retainers to double mechanical seals. Agitators are available with different type of mounting as per suitability of the process and users requirements.

Design Features :

- Design compliance with cGMP
- Available capacity from 5liter to 25,000 Liter.
- Product contact AISI 316L/316/304.
- Available blade: propeller, anchor, paddle, dispersing, flat, umbrella, turbine and rotor-stator homogenizer.
- Available drives with direct, housing coupled & gear drive.
- Available mounting with stand, telescopic stand, flange mounting, direct on vessel/tank.
- Option for rotating speed of blade.

Different types of blades can be combined depending on the process requirements and various conditions including the stirring objective, tank shape, rotating speed, viscosity, mixing blades of different configurations should be applied for different operating objectives. Different mixing blades follow various specifications to design and select the configurations of the blades. The ratio of the blade to the inner diameter of the tank, angular speed of the blade top, viscosity change during mixing process and the range of the flow volume are the factors to be considered. There are various types of blade mixer and can be categorized into axial flow and radial flow according to the flow pattern of the fluid in the tank. The main factors affecting mixing performance are as below and the commonly used configurations are listed for reference:

1. Shape, diameter, sweep back angle and slant angle of the mixer blade
2. Number of layers and the vertical position of the mixer blade where it is installed
3. Rotating speed of the mixer blade
4. Shape, inner volume, number of baffles and outline dimensions of the mixing tank
5. Batch operation or continuous operation

Agitators available with different type of drives and speeds with direct motor and with gear drive as per process requirements. Agitators are suitable for mixing volumes 5 liters to 25,000 liters.

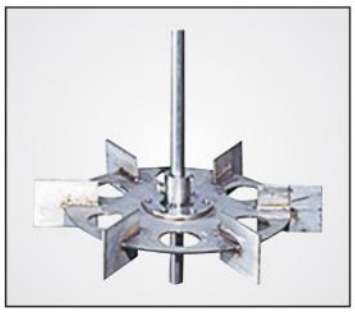
Blade paddles

Paddles blade

Ribbon blade

Turbine vortex blade

Umbrella type blade


Flat blade turbine type

Anchor blade

Spiral Propeller blade

Ruvastar cyclo

Dispersing Homogenizing blade

Open blade

High shear revers flow

High shear homogenizer

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Colloid Mill

Horizontal Drive Colloid Mill

Vertical Drive Colloid Mill

Superfine Grind, Homogenizing, Dispersing, Mixing and Emulsifying in Single Process

Application & Process :

A colloid mill is a machine that is used to reduce the particle size of a solid in suspension in a liquid, or to reduce the droplet size of a liquid suspended in another liquid. This is done by applying high levels of hydraulic shear to the process liquid. It is frequently used to increase the stability of suspensions and emulsions. The colloid mill is used for various applications such as Superfine grinding, homogenizing, emulsifying, dispersing, mixing and extracting of liquids, ointments and highly viscous products in pharmaceuticals, cosmetics, suspensions & emulsion industry.

The product is fed to the hopper which leads the product into the gap between taper rotor and stator. The product is subjected to a high degree of shearing, cutting and rubbing between two metal toothed surfaces of rotor and stator and towards the discharge section. The processed product continuously leaves the mill through drain pipe if required, it can be re-circulated by three way cock and re-circulating pipe assembly.

Salient Features :

- Design is cGMP-Current good manufacturing practices compliance.
- All contact parts AISI 316 & non contact parts AISI 304.
- Easy to adjustment gap between rotor and stator.
- Three way cock assembly with re-circulating pipe.
- Easy to moveable and dismantle all contact parts for cleaning.
- Silicon food grade seal.
- Separate discharge spout for highly viscous products.

Optional Features :

- Horizontal / vertical drive.
- Water cooling system.
- Flame proof electrical.

Safety Features :

- Overload pressure release mechanism.

Technical Specifications

Model	PCDM-250	PCDM-500	PCDM-1000
Output - Liter / Hour	150 to 1500	150 to 2500	150 to 5000
Drive type Option	Vertical or Horizontal	Vertical or Horizontal	Horizontal
Rotor Speed- RPM	2800	2800	2800
Hopper Capacity- Liter	15	15	15
Seal Type	Rubber Silicon	Rubber Silicon	Mechanical
Partial Size Reduction- Micron	5 to 10	5 to 10	5 to 10
Electric Motor HP/ KW	3 / 2.25	5 / 3.75	10/7.5

Filter Press-Zero Hold up

Liquid- Solid Filtration & Separation Process

The filter press is a solid liquid separation device using the principle of pressure feeding. It is highly efficient, compact, dewatering device for separating solids from liquid slurries in the form of compressed cake. It has wide range of applications by several industries like pharma, bulk drugs, distilleries, beverages & other industries.

The unfiltered liquid is fed into the filter under positive pressure, where liquid travels in downwards direction and finds its way through opening on sides of the filter Plates. As the liquid pressure increases, the filter media holds the foreign particles and allows only clear filtrate to pass through the central channel formed by interlocking pressure cups to the outlet. Filtration is continued until the cake holding capacity of the unit is reached or until the filtrate rate becomes too slow owing to cake resistance.

Salient Features :

- Design is cGMP with all contact parts AISI 316/304.
- Complete filtration of the batch without any hold up due to reverse flow of liquid.
- The cake, filtered & solids remain totally enclosed allowing filtration of toxic, hazardous & explosive liquids.
- No contamination of internal surface of shell.
- The top dome structure ensures fast & easy removal of cartridge assembly & cleaning of cake.
- Skid type unit with castor wheel.

Technical Specifications

Model	PFP- 8	PFP- 14
Diameter of plates	8”	14”
No of plates	8 plates	10 plates
Filtering area m²	0.275 m²	0.91 m²
Cake holding capacity	6.10 Liters	28 Liters
Flow rate per hour*	750Liters / hour	3500 Liters / hour
Size of pump	1 Centrifugal	1 Centrifugal
Motor HP	1.0 HP	2 HP

Skid CIP / WIP System

Mobile type Clean In Place / Wash in Place System

Application & Process :

CIP/ WIP system is useful for cleaning and washing at place of vessel, tank, bin, fluid bed equipment, high shear mixer, blender, auto coater and IBC bin.

Trolley mounted CIP system have inlet connection with pneumatic operated valve for plain water, hot water, detergent and D.M.water with pressurized pump, which are connected with spraying ball with supply pipe on the machine. The complete CIP/WIP system is operated by PLC controls system with touch screen HMI. PLC controls system is working as per set time for washing cycle of the inlet & outlet as per requirements.

Trolley mounted complete CIP/WIP system is consist of high pressure pump, inlet connection pneumatic valve, outlet connection with pneumatic valve, pneumatic control panel, eelctric controls panel with PLC & HMI touch screen.

CIP/WIP system can be supply with liquid detergent tank, hot water generator etc. as per customer requirements.

Bin Washing System: CIP / WIP

Closed Clean In Place / Wash in Place System for IBC Bin

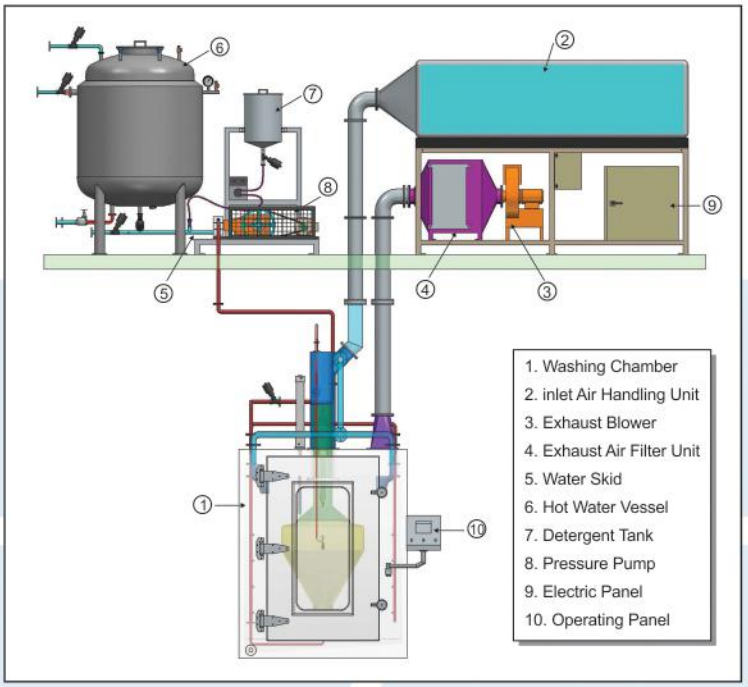
Application & Process :

CIP/ WIP system is useful for cleaning and washing at place of vessel, tank, bin, fluid bed equipment, high shear mixer, blender, auto coater and IBC bin.

Automatic washing station is consists of closed washing cabinet, washing system with pump, hot air handling system and PLC controls system with HMI.

Used bin is oriented in the closed cabinet and closed entrance main door for washing. Washing cycle time can be set as per requirements for plain water, hot water, detergent, distilled water. In auto mode bin wash automatically as per sets cycles. There are nos. of spraying nozzle for washing at all corners & all side walls for outer washing. Top mounting spraying nozzle is fitted with telescopic pneumatic cylinder to wash inner surface of the bin, inner washing nozzle move upward & downward during washing for completely washing of bin. The cabinet is having drain pot with recirculation of water connection with pump if required then it can be recalculated. After complete washing cycles then bin is dry by passed filter hot air circulation by air handling unit. After drying of bin on set temperature then released for new batch safe storage.

Closed washing system for bin can be supplied with storage tank for water, hot water generator, detergent tank and air handling unit as per customer requirements.



Prism's Global Presence

Middle East Country	African Country	USA & Latin USA Country	Asian Country	European Country	
UAE	Algeria	United state of America	India	Australia	Russia
Saudi Arabia	Nigeria	Mexico	Afghanistan	New Zealand	Macedonia
Egypt	Kenya	Peru	Nepal	Russia	Spain
Turkey	Malawi	Chile	Bangladesh	England	Slovenia Ukraine
Jordan	Ghana	Ecuador	Malaysia	Belarus	Italy
Oman	Congo	Colombia	Singapore	Belgium	
Iran	Uganda	Morocco	Thailand	Northern Poland	
Iraq	Ethiopia	El- Salvador	Vietnam	Sweden	
Syria	Tunisia	Canada	Hong Kong	Ireland	
Yemen	Zambia	Cuba	Myanmar	Finland	
Lebanon	South Africa		Sri Lanka	Bulgaria	
			Indonesia	Netherland	

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