



# PharmaChem Cosmetics Industries



WE MANUFACTURE MACHINERY & EQUIPMENTS FOR PHARMACEUTICAL, BIO PHARMA, BULK DRUG, FORMULATION, API, AYURVEDIC, HERBAL, FOOD, COSMETIC, CHEMICAL & BEVERAGES INDUSTRIES.

9 B / 14, RAM NAGAR, PREMSAMBANDH CHS, NEAR ASHOK NAGAR ROAD, BHANDUP - EAST, MUMBAI 400 042

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## COLLOIDAL / COLLOID MILL

Versatile compact **colloid mill** machine suitable for Homogenizing, dispersing, mixing, communicating more rapidly and emulsifying to give best results with an extremely high quality. The unit consists of stainless steel conical hopper, three way valve for drainage and recirculation, outlet nozzle and sprout rotor and stator assembly with 5 HP / 3 HP motor, DOL starter with overload relay and optional jacket for cooling or heating.

### APPLICATION :

It finds application of colloidal mill machine manufacturer, supplier and exporter in various processes like grinding, homogenizing, emulsifying, dispersing, mixing, extracting etc. Catering to the needs of several industries, such as ( **PHARMACHEM COSMETICS INDUSTRIES** )

- Pharmaceutical industry.
- Food, flour, dairy, sweetmeats and confectionery industry.
- Chemical industry.
- Paint industry.
- Textile industry.
- Cosmetic and detergent industry.
- Cubber industry.
- Sausage production and meat packing industry.
- Starch industry.
- Paper industry

**CAPACITY : 40 KG TO 500 KG**





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## COLLOID MILL APPLICATION & PROCESS

Utilization of Colloid Mill & Its Process

A colloid mill is a type of advanced equipment used for reducing the particle size of a solid in suspension in a liquid. Moreover, it is also utilized for reducing the droplet size of a liquid suspended in the other liquid. To achieve this, high levels of hydraulic shear is applied to the process liquid. It helps in increasing the stability of suspensions and emulsions. The colloid mill is utilized in a wide range of applications like superfine grinding, emulsifying, homogenizing, mixing, dispersing, and extraction of ointments, liquids, and other highly viscous products in the industries like cosmetics, pharmaceuticals, and suspensions & emulsion.

First the product is fed into the hopper. It directs the products into the gap between the stator and the rotor. After that the product undergoes a high degree of shearing, rubbing, and cutting. This process takes place between two metal-toothed surfaces of stator and rotor. Then it is sent towards the discharge segment. The processed product keeps on leaving the colloid mill through a drain pipe. If required, it is possible to re-circulate it with the help of a three-way cock and re-circulating pipe assembly.

## SALIENT FEATURES OF COLLOID MILL

Striking Features of Colloidal Mill Machine

- Designed as per cGMP standards
- All contact parts of colloid mill made of AISI 316
- All non-contact parts made of AISI 304
- Easy to adjust the gap between the stator and rotor
- Equipped with three-way cock assembly with recirculating pipe
- Easy to dismantle all contact parts for cleaning
- Silicon food-grade seal
- Separate discharge spout for highly viscous products

## OPTIONAL FEATURES

Discretionary Features of Lab Colloid Mill

- Horizontal / Vertical Drive.
- Water cooling system.
- Flameproof Electrical.

## SAFETY FEATURES

Exclusive Features for Safety Precautions Laboratory Colloid Mill

- Advanced overload pressure release mechanism in colloidal mill



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## TECHICAL SPECIFICATIONS

Technical Specificities of Colloid Mill Machine

COLLOID MILL MODEL	PCI CM - 250	PCI CM - 500	PCI CM - 1000
Output - Liter / Hour	150 to 1500	150 to 2500	250 to 5000
Drive type Option	Vertical OR Horizontal	Vertical OR Horizontal	Vertical OR Horizontal
Rotor Speed- RPM	2800	2800	2800
Hopper Capacity in Liter	15	15	25
Seal Type	Rubber Food Grade Silicon	Rubber Food Grade Silicon	Mechanical Seal Food Grade Silicon
Partial Size Reduction- Micron	5 to 10	5 to 10	5 to 10
Electric Motor HP / OKW	3 / 2.25	5 / 3.75	10 / 7.5