

Colloid Mills

One of the advanced products we have at Bipin Pharma Equipment is Colloid Mill. The presence of solid substances and the size of these particles in liquids can be reduced with the help of mills made of colloid. For the purpose of this machine, the raw materials are manufactured with both flame proof motor and rotary switch. An electrical flame proof is also available but at a nominal feel that caters to the requirement of the client.



The output depends on the material characteristics:

- Viscosity,
- Micron Size and
- Density.

The premium quality device available at Bipin Pharma Equipment has made us renowned in the global market. Meeting client requirements is one of our major policies we take care of along with providing pharmaceutical equipment with quality supervision.

Mechanism of the Colloid Mill

- The rotor speed is at 2800 rpm.
- The product undergoes pressure, friction and high shear when in between the motor and stator.
- The product experiences intensive vibration and force through a releasing and pressing movement.
- The somewhat tapered shape of the rotor and stator's milling surface causes the angular gap to become narrower as it moves towards a discharge output.

- The product can be recalculated once again after it comes out of a drain pipe of the colloid mill.
- Features and Provisions of the Colloid Mill
- The liquid cannot enter the motor winding due to the presence of three oil seals in between the processing chamber and motor.
- The grinding gap is also adjustable with the help of an exterior screw which helps operating the device and handling the device easier.
- Maintenances of the machine is made simple due to the coupling between the motor shaft and the rotor shaft. It is easy to dismantle every contact part for better cleaning.
- The motor HP can be reduced with the help of the latest technology known as the semi-concave teeth. The product size can be reduced without any kind of damage and it also ensures exceptional performance.
- The machine is equipped with a leak proof sealing device made of neoprene.

The industries that prominently use colloid mill are pharmaceutical, textile, food, paper, paint, soap and cosmetics. There are two types of models that are supplied by us at Bipin Pharma Equipment, the water jacketed and plain model. The GMP 5HP and 3HP models are excellent for products that are sensitive to heat.