

# CRYST - CONTRA PINMILL

The latest State of the Art Micronizing Mill designed and developed for Ultra fine powder technology by  
**CRYSTAL AUTOMATION PVT. LIMITED**



Model	Motors (HP) for Double Rotor	Capacity* (DRY TYPE) (Kgs/Hr.)	Dimension ** L x W x H (mm)
CRYST CPM - 100	10 & 15 HP	Upto 100	2000x1600x1800

\* The capacity will depend on the Characteristics of the material, Feed size and machine rpm.

\*\* Dimensions should be rechecked from the manufacturer

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## Introduction

This mill is one of the most needed machine in the industry. It pulverizes and micronizes a large variety of different soft to medium hard materials. Different grinding elements and rotors are available. By setting the parameters properly, mainly rotor speed, Feed rate and Feed Size, the performance of this machine is unmatched.

The further development of Contra Pinmill means the influence of the product load on the fineness of the final product is now a negligible parameter. The independence of the fineness of the contra milling process makes the feeding of larger amounts of the products possible, markedly increasing the efficiency and economy of the mill.

The heart of this mill is our proven high precision rotor wheel, for exact limitation of the particle range in the milled product, free of oversized particles.

## Principle of Operation :

The Cryst Contra Pinmill is a fine impact mill with two driven pin discs. In the counter-rotating mode, much higher relative speeds are possible than the normal pinmill having only one driven pin disc.

The highest relative speed develops at the outermost pin rows and can be upto 250 m/s. The feed material should be brittle with a maximum MOhs hardness of 3. The fineness can be adjusted by altering the pin disc speeds. The centrifugal forces acting on both the discs ensures that even moist, greasy and sticky products can be processed. The design with the wide chamber housing is often embrittled by intensive mixing with the liquid nitrogen or cooling intake air by installing heat exchanger on the conveying stream.

The mill door can be opened wide to permit easy cleaning. Depending on the machine size, Product feed is either from the front via the machine door or from the rear of the mill housing.

Utilized for Pulverising of Powders in Pharmaceutical, Chemical, Food, Plastics products as well as for cryogenic pulverizing application.

### For example

- Pharmaceutical
- Pigments
- Cosmetic Powder
- Talcum Powder
- Bulk Drug
- Chemicals
- Food

### Advantages and Features :

- Very fine powder due to high surface speed
- Adjustable fineness
- High efficiency
- Easy cleaning and maintenance
- Special designs for cryogenic grinding
- The machine housing can be either standard bottom discharge or tangential discharge.
- Supported with VFDs for speed variation
- Safety interlock provided
- The system is very much supportable to Powder Transfer System with heat exchanger arrangement.

Validation Documents like DQ, IQ, OQ and Manual are provided with the machine.



[www.crystalautomation.com](http://www.crystalautomation.com)



**CRYSTAL AUTOMATION PVT. LTD.**

ISO 9001:2008

Manufacturer, Exporter & Consultants of  
**Industrial Automation Eqpts. & Special Purpose Machines**

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