

Are you still sticking to conventional methods and equipment ?

CHECK OUT OUR RANGE OF EQUIPMENT AND SYSTEMS

For complete customised solutions in

PRODUCT TRANSFER • PRODUCT STORAGE • MILLING
BLENDING • METERING • WEIGHING • BAG/DRUM FILLING • DUST CONTROL

**Designed and Manufactured as per
Current International GMP norms**

**Highest Quality in Manufacturing
and Product Finish**

**Supplied with All Validation
Documents and Assistance**

**Completely eliminates intermediate
manual handling of products**



Integrated and Automated Powder Processing System
for Pharma / Food / Bulk Drugs as per cGMP



CRYSTAL AUTOMATION PVT. LTD.

BATCH TYPE



CONTINUOUS TYPE

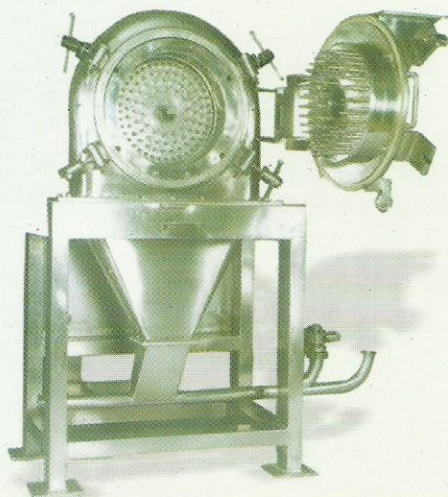
CONICAL MILL



SIEVES



CONICAL MILL WITH POWDER CHARGING SYSTEM



COMPACT POWDER TRANSFER SYSTEM

For vacuum transfer of powders, granules, sugar, tablets and pellets in Pharma and Food Industries

Applications :

For charging of RMG, Sifter, Mill, Mixer, Blender, Bin, Tablet Press or any other such equipment

Key Features :

- Can be used for transfer of products having bulk densities upto 1.0 gm/cc
- Total Discharge - No Retention
- No Segregation or Degradation of Product
- No tool required for opening & cleaning
- Available in three sizes - for upto 300, 600 & 1200 kg/hr, depending on bulk density and nature of product
- **Compact design, complying with current international GMP norms**
- **Universal adaptability - can be easily installed on any receiving equipment like Process Tank, IBC, Conical Mill, Pin Mill, Blender, Tablet Press etc.**
- Adaptors Provided to suit existing inlet opening on user's equipment
- Economical and easy to install and operate
- All contact parts made of SS304 / SS316 / SS316L and Pharma grade gaskets / seals
- No use of oil or grease in any of the contact parts
- Mobile Trolley Mounted version also available

**WE ARE THE PIONEERS IN DESIGN & SUPPLY
OF BULK SUGAR / POWDER TRANSFER SYSTEMS
TO INDIAN PHARMACEUTICALS / FOOD PROCESSING PLANTS**

CONICAL MILL

Applications :

For Sifting, Sizing, Granulating and Milling of dry or wet powders and heat sensitive products, tablet crushing etc.

Key Features :

- Hygienic and compact design complying with current international GMP norms
- All contact parts made of SS304 / SS316 / SS316L and Pharma grade gaskets / seals
- Sieve can be removed and replaced in less than 30 seconds
- Operational Interlocks for operator safety
- Variable Speed Drive for flexibility in having desired results with a wide range of products
- Capacities upto 1000 kg/hr depending on product bulk density and other properties
- Tool free maintenance - opening, cleaning and changing of screen does not require any tools and can be done in less than 5 minutes
- Sieves ranging from 0.25 mm to 25mm can be used to achieve various degrees of capacities, granulation and sizing
- No heating of product during granulation / sizing operation, due to better air circulation and lesser impact action
- Also available with VFD for achieving desired particle size v/s screen size

PIN MILL

Applications :

For size reduction and milling of products to very fine powders down to 10 microns

Key Features :

- Robust construction with SS304 / SS316 / SS316L contact parts
- Capacities upto 1000 kg/hr depending on product bulk density and other properties
- Easy and rapid cleaning as per current International GMP requirements
- Tool free maintenance - opening, cleaning and changing of screen does not require any tools and can be done in less than 5 minutes
- Can be supplied with integral Powder Charging System
- Also available with VFD for achieving desired particle size v/s screen size



INTERMEDIATE BATCH CONTAINER (IBC)

Applications :

For intermediate storage, formulation, blending and handling of products before, between and after various processes.

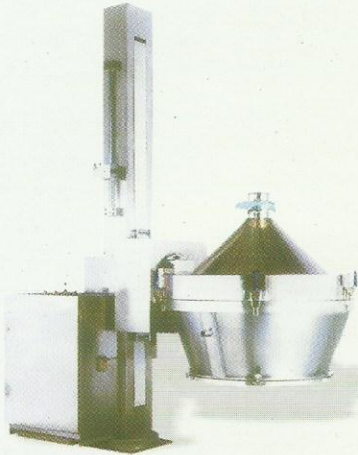
Key features :

- Designed with current international GMP guidelines - Without any nooks and corners for easy cleaning
- Mirror finish from inside and adequate hopper angle for easy and complete discharge of products
- Contact parts made of SS304 / SS316 and Pharma grade gaskets and seals
- Universal bin handling and stacking system for easy automated handling and stacking of bins
- Optionally available with castor wheels and wheel locking arrangement
- Matt finish and ground weld joints on outside with circular legs and frame without sharp corners to avoid water stagnation during washing
- Butterfly valve provided at bottom discharge
- HDPE / Nylon pads at leg bottom
- Numbering and Bin Weight indication provided on every bin

Can be used for Batch Production

Main benefits of Batch Production are

- Greater Flexibility
- In-bin formulation and blending
- Reduction in down time for cleaning
- Improve production quality
- Product Transfer System for fitting & discharge of IBC can be easily adopted.



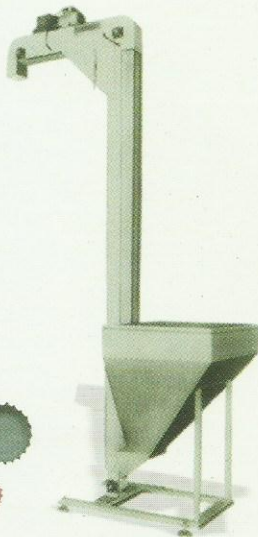
FBD BOWL LIFTING AND TILTING SYSTEM

Application :

For easy lifting and tilting of FBD bowl

Key Features :

- Fully automatic system, with hydraulic lifting and tipping arrangement for quick and easy handling
- Eliminates tedious and unhygienic manual handling of products
- Quick fixing lever clamp provided on the cone to clamp FBD bowl with the system
- Available in standard capacities of 60 kg, 100 kg, 200 kg, and 300 kg.



MAGNETIC CROWN ELEVATOR

Application :

For efficient elevating and loading of bottle crowns into the filler machine in soft drink / beverage plants

Key Features :

- Continuous flow of crowns to the filler machine hoppers, resulting in an increase in bottling efficiency by 7 to 10%
- Reduces uncrowned bottles
- No relative motion between the crowns, thus preventing rubbing and hence rusting of crowns
- Eliminates manual handling of crowns - increases hygienic standards
- Level sensor logic provided



CAP TRANSFER SYSTEM (CAP BLOWER)

Application :

For efficient transfer and loading of caps to Filler Machine hopper in Soft Drink / Beverage / Mineral Water / Pharma / Food Industries

Key Features :

- Compact design with stainless steel construction
- Built-in blower and control panel
- UV radiation source provided for getting caps free of germs
- Permits easy loading of caps from cartons to filler machine hopper
- Automatic delivery of caps to the filling machine on demand
- Air suction filter provided to protect the caps from dust / impurities
- Level sensor logic provided



OCTAGONAL BLENDER WITH POWDER CHARGING SYSTEM

Applications :

For uniform and efficient blending / mixing of ingredients

Key Features :

- Elegant design with matt finish from outside and mirror finish from inside
- Blender cones and discharge valves are carefully designed & gas purging facility provided for full discharge of materials
- Carefully designed and fully removable baffle for efficient and fast blending without damage to powders / granules & easy cleaning
- Contact parts made of grade SS316, Pharma grade gaskets / seals
- Integrated Powder Charging System provided, for quick and automatic charging of blender, without manual handling



CENTRALISED DUST COLLECTION SYSTEMS

Application :

For prevention of dusting in plants by trapping of dust at various dust generation sources and collecting the dust at a centralized location

Key Features :

- Compact and efficient hood design to suit the esthetics of the plant interiors
- No settling of dust in the ducts
- Facility for easy and quick cleaning of ducts
- Automatic pulse-jet cleaning of filter bags
- Complete system layout done to suit user's existing plant & equipment



• Our Client base speaks for us •

- ◆ Glaxo India
- ◆ Johnson & Johnson
- ◆ Pfizer
- ◆ Wockhardt
- ◆ USV
- ◆ Cipla
- ◆ Sun Pharmaceuticals
- ◆ M. J. Pharma
- ◆ Hoechst India
- ◆ Pepsico India Holding
- ◆ Hindustan Coca Cola Beverages
- ◆ Byer India
- ◆ Fosters India
- ◆ Emmellen Bio-tech Pharmaceuticals
- ◆ Alkem Laboratories
- ◆ Apex Laboratories
- ◆ Unichem Laboratories
- ◆ Parke Devis
- ◆ Cadila Healthcare
- ◆ Harman Finocem
- ◆ Okasa
- ◆ IPCA Lab
- ◆ Hikal Chemicals
- and many more...

• We have Exported to •

Europe, USA, Malaysia, Singapore, UAE, and Saudi Arabia

OTHER PRODUCTS

- ◆ Fully Automatic Mixers, RMG, Ribbon Blenders, V-Blenders, Bin Blenders
- ◆ Fluid Bed Driers/Processors/Granulators with Loading/Unloading Systems
- ◆ Automatic Cleaning and Drying Systems, De-contamination Systems
- ◆ Dust Collectors, Bagfilters
- ◆ Rotary Valves, Screw Feeders, Wet Mass Shredders
- ◆ Vibro-Sifters, Air-Swept Sifters, Self-loading Sieves
- ◆ Divertor Valves, Flap Valves, Magnetic Separators
- ◆ Silos, Bins, Weigh Hoppers
- ◆ Pneumatic Conveying Systems and Mechanical Conveyors
- ◆ Complete Systems and Plants for Pharmaceutical, Chemical, Food, Beverages, Petrochemicals, Pulp and Paper Industries
- ◆ De-dusting, De-stoning, Pneumatic Conveying and packing Systems for grains and pulses.



OUR MANUFACTURING FACILITY AT THANE, MAHARASHTRA STATE (INDIA)



CRYSTAL AUTOMATION PVT. LTD.

Manufacturers & Consultants of