

# 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**

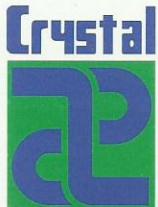
**Highest Quality in Manufacturing  
and Product Finish**

**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

## 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.



### 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.

### 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

## 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

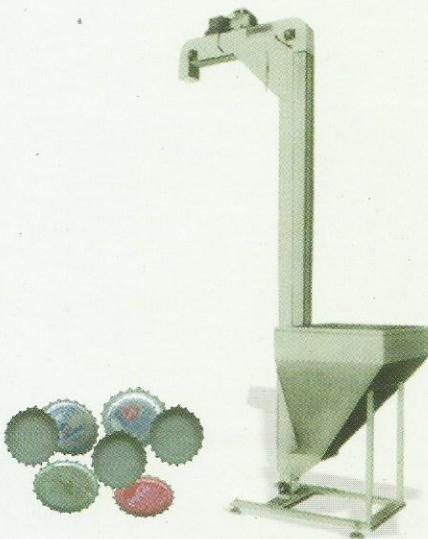
## CAP TRANSFER SYSTEM (CAP BLOWER)

### 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 protects 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 MANUFACTURING FACILITY AT THANE, MAHARASHTRA STATE (INDIA)



**CRYSTAL AUTOMATION PVT. LTD.**  
Manufacturers & Consultants of

### • 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 Finochem
- ◆ 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.