

CORPORATE MISSION

The new era dawns with it new Technological horizons which are to be explored & utilised.

We at APEX understand this philosophy & are geared to handle advanced technological developments with inquisitiveness & the firm understanding of alert technovisionaries.

Our most miniscule action towards innovation is in the direction of international technical integration.

Our objective at APEX is to offer international quality State-of-the-art equipments to the world along with local market & be technical partner of the Pharma industry. All this is backed by trained personnel who understand the responsibility borne by them.

We feel our associates should grow as we grow & our ultimate aim is to serve the Pharma & Food industry with dedication to their highest level of satisfaction & help them to achieve their higher goals.



*Innovation
in Technology*



Machine Manufacturer, Exporter & Importer



**Infrared Ray Dryer
Insertion Type - Ins 900**



**Infrared Ray Dryer
Umbrella Type - Um 650**



Infrared Tunnel Dryer

▲ Infrared Ray Dryers

Salient Features:

- * Technology which truly covers the aspects of hygiene, minimum drying time consumption & minimum human intervention, that is Infra red Ray dryers.
- * Drying by infra red ray dryers is very easy solution. You can Expose your washed equipment to Infra red rays for speedy drying.
- * Infra red Rays sources are Ceramic coated thus ensures no particle shedding or black particle generation, which may contaminate washed equipment. As a property Of Infra red rays, it reduces the microbial counts also. Infra red dryer is more effective for drying Stainless Steel equipment because Stainless Steel surface is a reflective surface.
- * In this case temperature is not the criterion as it will give heating effect only to the object on which it falls. Infra red rays do not require air as media Thus rays will not increase temperature of the surrounding atmosphere but it will give heating effect to the object on which it falls.
- * Power consumption by Infra red ray Dryers is 5 to 10 times less than power consumption by hot air blower.
- * Infra red rays are absolutely safe to human body.
- * Heat up & cool down time - 1.5 to 5.5min.

Models of Infrared ray dryers : a. Insertion type b. Umbrella type c. Cupboard type



**Infrared Ray Dryer
Cupboard Type - UM 1000**

▲ On Line Tunnel Dryer

Is a custom designed equipment suitable for drying of food material and glass bottles etc.

Heating is done by IR source hence the system is completely hygienic, No requirement of Hepa filters or other filters and suitable for a wide range of industry

- * On line drying of food products like potato chips and other vegetables.
 - * On line drying of glass vials and bottles
 - * On line drying of granule powder or paste etc.
 - * On line shell drying of fruits
 - * On line drying of fish
- (All drying are subjected to study the properties of product)



a - C.I.P. Portable Cleaning System Unit



b - Mixing Battery

◀ a -C.I.P System

Useful for cleaning of Processing equipments which can not be sifted to wash area viz. Octagonal Blender, RMG, FBD & Ect.

Optional : PLC control System, Temp. controller, No water indication or interlocking..

◀ b - Mixing Battery

The device used to produce high pressure & high temperature water. All sort of safety factors are taken into care by providing **NRV** and **Steam Shut Off** valve.

Bottle Cleaning Equipments & Line Accessories



"Automatic Desiccant / Canister Insertion Machine"

Is introduced by Apex for inserting fixed number of Silica Gel Pouches / Canisters into the container. The silica gel pouches are used so as to remove any traces of water vapour present in the container. The counts of the pouches can be set by the counter on the panel. At the end of the track LED counter is given to control the numbers of pouches to be inserted into the container.

Features:

- * Vibratory bowl is given for continuous flow of desiccant / Canister.
- * LED Sensors are provided for accurate filling of pouches
- * Pneumatic Indexing is provided to hold the containers while filling.
- * No bottle No fill mechanism .
- * Micro controller based electrical panel.
- * Easy change over from desiccant to canister filling.

Inspection Table



Turn Table



Desiccant Insertion

Airjet Cleaning Machine ➤

APEX make different user friendly models of air jet cleaning machines which are suitable for cleaning of bottles or containers to be filled. No water consumption or drying problem and hence saving of huge recurring cost. No problem whatever the material of container Glass or PET.

The containers are exposed to pressurized air jet followed by vacuum suction to clean the inner surfaces.

Optional attachments:

* **Filtration system** comprises of 5micron filter, 0.001PPM Filter (Oil & moisture separator), Silica gel filter and finally 1 micron filter.

* **Ionizer** could be provided to de-ionize the static charge on bottle surface and hence better cleaning is achieved.

* **Automatic silica gel regeneration system** is provided to avoid manual recharging of silica gel in due course of operation.

* **In Line HEPA filter** could be provided for special purpose requirement .



Semi Air Jet Cleaning - SA2



Semi Air Jet Cleaning With Enclosure - SAC2



Fully Automatic Inversion Air Jet Cleaning - IA1



Fully Auto Top Diving Air Jet Cleaning - TA1



Liquid Filling Machine

LIQUID FILLING MACHINE

- *Suitable for filling Oral Liquids, Oils, chemicals, pesticides.
- *cGMP compliance. *PLC control panel
- *Accuracy in fill volume..

Models Available :

Linear Volumetric Filling

- *Precisely designed syringes for fine accuracy.
- *Available in Multi-heads.
- *Most compact model.
- *Diving mechanism while filling.

Syringeless Type

- *Compact design *No dripping.
- *Absolutely no change parts required.
- *Fill volume changeover is just on your fingertips through PLC.
- *Ease of maintenance.

Revolutionary Technology



**Syringeless
Liquid Filling Machine**

COMBICAP SEALING MACHINE

This Machine is useful for ROPP +CRC +SCREW Capping . Easy changeover from ROPP capping to Screw capping / CRC.

Screw capping to CRC capping by changing the capping heads of the machine .

Fully automatic machine is designed to seal bottles with metallic and plastic caps of various sizes. Machine consists of sealing head assembly , orientation block for cap feeding , Star wheel, Slat Conveyor & Electrical control panel.



Airjet Washing + Liquid Filling + Capping + Labelling Line



Combi Cap Multi heads



Combi Cap Single head

◀ Capping Machine Features

- *Simple change over from screw capping to ROPP & Vice versa.
- *Minimum change parts required as star wheel is not required to be change ,only bottle adopters are to be change without disturbing the setting of the machine.
- *Mechanical torque setting arrangement.
- *Variable speed for slat conveyor.
- *Simple operation easy to operate & maintain the machine.
- *GMP model.
- *SS or extruded aluminum section cabinet offered as an optional features.

Powder Filling Equipments



FEATURES OF POWDER / GRANULE FILLING MACHINE

- * High Productivity
- * Principle of Operation Auger metric
- * Ease of Operation
- * No Dripping
- * Easy availability of spares
- * Easy Changeover
- * High accuracy in filling
- * Pneumatic Indexing System on Single Track
- * Ease of Maintenance
- * High Flexibility for different natures of powders
- * Lower Cost of Production

OPTIONAL:

- * Dust Extractor
- * SS OR Aluminium Structure
- * Touch Panel & PLC.
- * No Bottle No Fill
- * Horizontal Feeding Mechanism

Weight Control

Logical Weight Control Systems and Data Recording facility available in Powder filling - Automatic and semi automatic models.

Models Available:

- * Semi Auto Single Head Powder Filling Machine
- * Double/ Triple Head Powder Filling Machine[Clutch- Break / A.C.Servo]
- * Mono block Single Head Filling & Capping Machine
- * Form Fill & Seal Machine (Pouch Filling Machine)



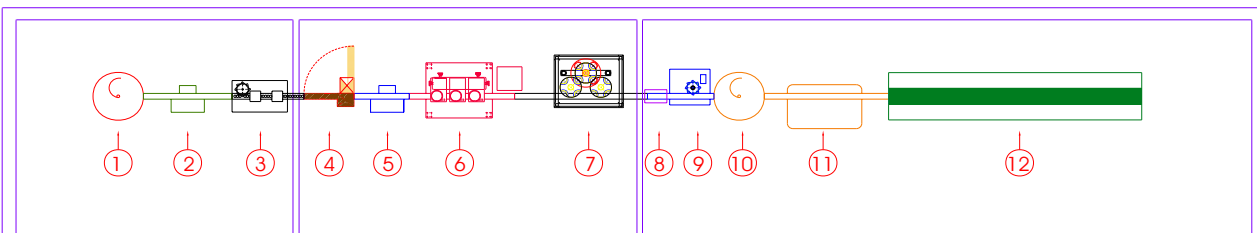
Vibratory Feeding Mechanism For Non Free Flowing Powder.



Dust Extraction System.



LAYOUT OF FULLY AUTOMATIC POWDER / GRANULE FILLING & PACKING LINE



1. Turntable / Unscrambler 2. Pre-inspection table 3. Fully automatic air jet washing machine 4. Swing conveyor 5. Final inspection table 6. (a) Dry syrup / Powder / Liquid filling machine (b) Dry syrup / Powder filling & capping monoblock 7. (a) ROPP cap sealing single / Multihead machine (b) Cap tightening machine 8. Induction sealing machine 9. Fully auto measure cup placing & pressing machine 10. Turntable / Unscrambler 11. Labelling machine 12. Packing conveyor.

Sticker Labelling Machine

Features :

- * Compact design
- * Complete cGMP model
- * Wrap around mechanism to wrap the label on container.
- * Reel mechanism to hang the roll
- * Label release mechanism
- * Break assembly to avoid variation during realising of roll.
- * No change part for change in container, due to special mechanism.
- * Provision for all type of online batch coding i.e.
 - Ink Coder
 - Cassette Coder
 - Hot Foil Coder
 - S.S. Metal Stereo Box for Printing



Sticker Labelling Machine



Form Fill & Seal Machine

Features of Form Fill & Seal Machines

Suitable for any type of Free Flowing Material, Tea Powder, Coffee, Masala, Detergent Powders, Pharmaceutical Drugs, Wafers, Farsans, Creams, Ketchup's. Etc. Available in Three Side / Four Side Seal / Central Seal (Pillow Pouch)

Optional :

Nitrogen Gas Flushing, Vacuum sealing, Coding Arrangement, Static Charge Eliminators, Photocell for print registration etc.



Semi Auto De-blistering

De-blistering M/C.

*Speedy & Fully recovery of products from Blister packs. *Does not damage the products. *Auto separation & collection of products & scrap. *Can be suitable for all types of packs. *Can be used for the full length of rejected webs in Semi auto machine. *Speedy changeover. *Aluminum body for longer life & aesthetics.

Packing Conveyor

- *Compact Drive Unit , this enables optimum usage of the belt till the edge of the table.
- *Low Power Consumption because of improved design Endless Molded belt made of food grade material (Green) with PVC coating for better finish , aesthetics GMP & longer life.
- *Collapsible Design , so that it occupies less storage space & also reduces transportation cost.
- *Superior design results in smooth and trouble free operation in the long run.
- *Sturdy structure to withstand heavy loads.
- *Optional: Internal Pendant for electrical wires & compressed air, from conveyor infeed end to outfeed end.

Models Available

- GMP Model (S.S. Top & S.S. Structure).
- Regular Model (S.S. Top & M.S. Powder Coated Structure).
- Inclined conveyor.



Packing Conveyor



Octagonal Blender



Mechanical Sifter



Vibro Sifter



Multi mill



Round IPC



Sq. Bin

▲ Sifters GMP Model : Salient Features.

- * Standard machines are with TEFC motor, explosion proof / flame proof motor optional.
- * All contact parts and screen of SS 304 / SS 316 Stainless steel material.
- * Easy dismantling and cleaning facility for contact parts.
- * Wide range of screen sizes 4 -300 mesh.

Models Available: SMS-20. & SMS-30.

Optional accessories : Brushing arrangement, SS lid with charging port Aluminum ring and SS tie rod for fixing screen finer than 100 mesh.

▲ All Types Of Blenders / IPC / BINS.

General features :

- * Superior designs to ensure uniform blending & easy discharge.
- * Totally enclosed system allows following cGMP as closely as possible and avoids cross contamination & pollution of the



-environment.

- * Timer for automation.
- * built in valves at the bottom for easy discharge.
- * No- guard, No-Start device for safety.

Models Available:

- A- Cage Blender.
- B- Single Cone Blende.
- C- Octagonal Blender.
- D- Double Cone Blender.



Pallet truck

Lifters GMP Model: ➤

This hydraulically operated device is used for lifting , loading and Transferring of powder / Empty Capsules / Tablets into Machines / Container.

◀ Pallet truck :

SS hydraulically operated truck PU Coated Castor Wheel Transferring of Loaded pallets.

▲ Multi Mill GMP Model :

Multi mill is a portable self-contained unit for high Speed granulation, pulverization, mixing, shredding, chopping etc.

This machine works on the principle of variable force.

Useful for :Pharmaceuticals, Chemicals, Food products, etc...



Lifting & Swivelling



Capsule filling Equipments

SEMI AUTOMATIC FILLING



Introducing the new **CAPEX - 1** with additional features.

LOADING SECTION:

- TDC stop electro pneumatically operated mechanism for operator safety.
- Auto loading station with pause facility.
- Rigid & Wear-n-tear protection for loading mechanism.

FILLING SECTION

- Infinite speed control for filling table (1 to 15 RPM),
- Auger Drive (200-360 RPM)
- Complete Batch loading system with constant powder level control.
- Auto Filling mechanism No plate No fill mechanism.
- Dust Extraction system

CLOSING SECTION:

- Vertical fully automatic capsule locking system.
- Fully automatic ejection system.
- Specially designed capsule collection bin.



Empty Capsule Loader

MANUAL FILLING



Hand Capsule Filler

*Kindly feel free to
Contact for any
Queries, enquiries
At the following...*



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**** Due to constant innovation and product upgradation we reserve the right of modification.**