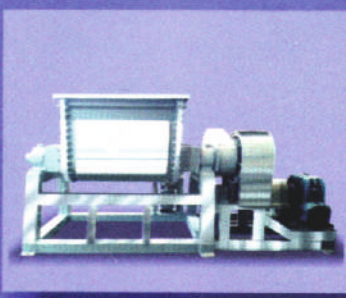
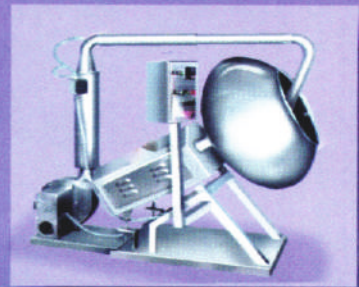
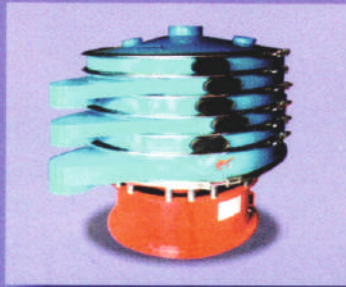
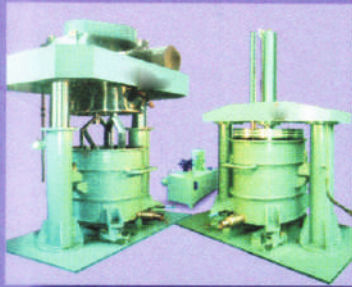


# NITIN PHARMA MACHINERIES



**Factory / Office :**

Jamboli Pada, Behind Plot No. F/64, Near Raj Hotel, MIDC, Ambarnath (E), Dist. Thane - 421506

Contact : 98925 58202 / 90828 29442 | Email : [nitinpharma76@gmail.com](mailto:nitinpharma76@gmail.com)





# NITIN PHARMA MACHINERIES



We are a reputed name in the market Engaged in manufacturing, exporting and supplying of world class machines

Nitin's granulation line is uniquely qualified to provide state-of-the art inegrated power handling and processing line to supply better product than the best, your product in the industry Drawing on the world class expertise, Nitin offer fully integrated turkey instllations.

Our service includes design, installation assistance, commissioning, process validation/company technical support and co-operation. Design, installation, operation qualification and documentation are carried out according to FDA/cNitin guidelines.

NITIN has a strong technology innovation and excellence to be your expert for solid dosage departments. Each product has different characteristics, each project has different requirements and NITIN will design for you a customized lay-out and the suitable machinery on the basis of your product, your needs and your product plans, NITIN supplies complete system and integrated concept to fit your requirements. NITIN pharma will be your partner for Turnkey projects. A complete integrated granulation line can be deigned as per system standards. All product contact parts are made in stainless Ss304. The machines will have High Quality, High functionality, Ergonomic customized designs, efficiently high performance as per NITIN complaint.

NITIN's entire range of process equipment is designed with system integration in mind. A modular approach allows customers to select standards process modules to suit project needs. Fluid bed dryers and Coaters can combined with high shear mixer-granulators, wet & dry milling facilities, product handling systems, binder and coating preparation units, filtration units etc., all designed for fully integrated system. Safety, containment, product flow and building requirements are in-built for full integration for optimum process.







## MECHANICAL SIFTER AND VIBRO SIFTER

We offer top-class vibro sifters that are circular gyratory screens, vital to separate solids from solids and liquids from solid. Our range is available in different diameters of 20", 30", 36" & 48". We can also customize our vibro sifters as per the client's requirements. Some of the salient features of our vibro sifter encompass of the following:

Faster separation, Process adaptability, Long screen life lesser maintenance and power consumption than conventional sifters high capacity and optimum use of space Widely demanded worldwide, our vibro sifter has following special attributes as well Stainless steel GMP construction with S.S.304 or 316 contact parts.

Faster output at low power consumption, Double deck arrangement can be provided.  
Fitted with Vibro Motor Provided lid for dust free operation.



## PASTE KETTLE

The tilting paste kettle, is designed for paste preparation. It has a universal application resulting in uniform melting. This tank is designed to meet missing needs of wider range of products under varied operating conditions in Chemicals, Foods, Cosmetics and Pharmaceutical Industry.

The basic principle utilized in the design of this kettle is the jacket for passing steam in order to melt down the product to make paste. This kettle has a unique tilting arrangement for discharging the product.



## MULTIMILL

Multimill is used for wet granulation, pulverization in pharma & chemicals industries it operates on the principle of variable force swing beaters having both knife & impact edges rotating within a selected screen to get the required size reduction. Material fed in the hopper passes down to the processing chamber where it moves to the periphery and passes through the screen radially and tangentially. Finally the processed material gets collected in the container kept below the processing chamber.



## NITIN SERIES OF RAPID MIXER GRANULATORS

NITIN Rapid Mixer Granulators are specifically designed to efficient mixing and wet granulation of powders, provided consistency quality. These mixers offer a wide range of features for raw material and binder charging, variants for setting up, cleaning & automation controls apart from direct connections to the vent mill & downstream process such as Fluid Bed Drying the highest cGMP standards. The rapid mixer granulator is the result of deep knowledge of the specific requirements of solid dosage processing in the pharmaceutical industries.

### FEATURES

#### BOWL

SS 316 construction with cylindrical design and conical top for optimum mixing. Effective mixing even with lightly difficult material. Provided with Quick acting clamps for the locking. Lid interlock for operator safety. Vent lifter is provided at the top of lid.

#### CHOPPER

4 Blade chopper SS 316 construction has high surface area for lumps breaking for compaction of proper granules. Mounted on the wall of the bowl horizontally with sealing. Proper purging through air to avoid powder entering into shaft and at the same time maintaining cooling to the shaft.

#### IMPELLER

3 Blades impeller, SS 316 construction tangentially attached. Proper sealing is provided to prevent leakage. Blades enlarge at end to maximum product. Minimum bottom and wall clearance for maximum product yield.

#### PURGING SYSTEM

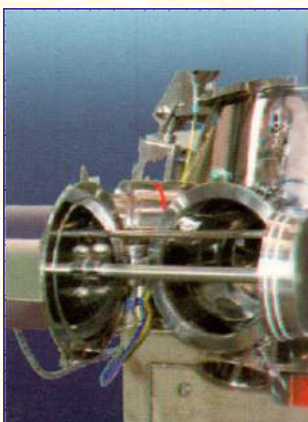
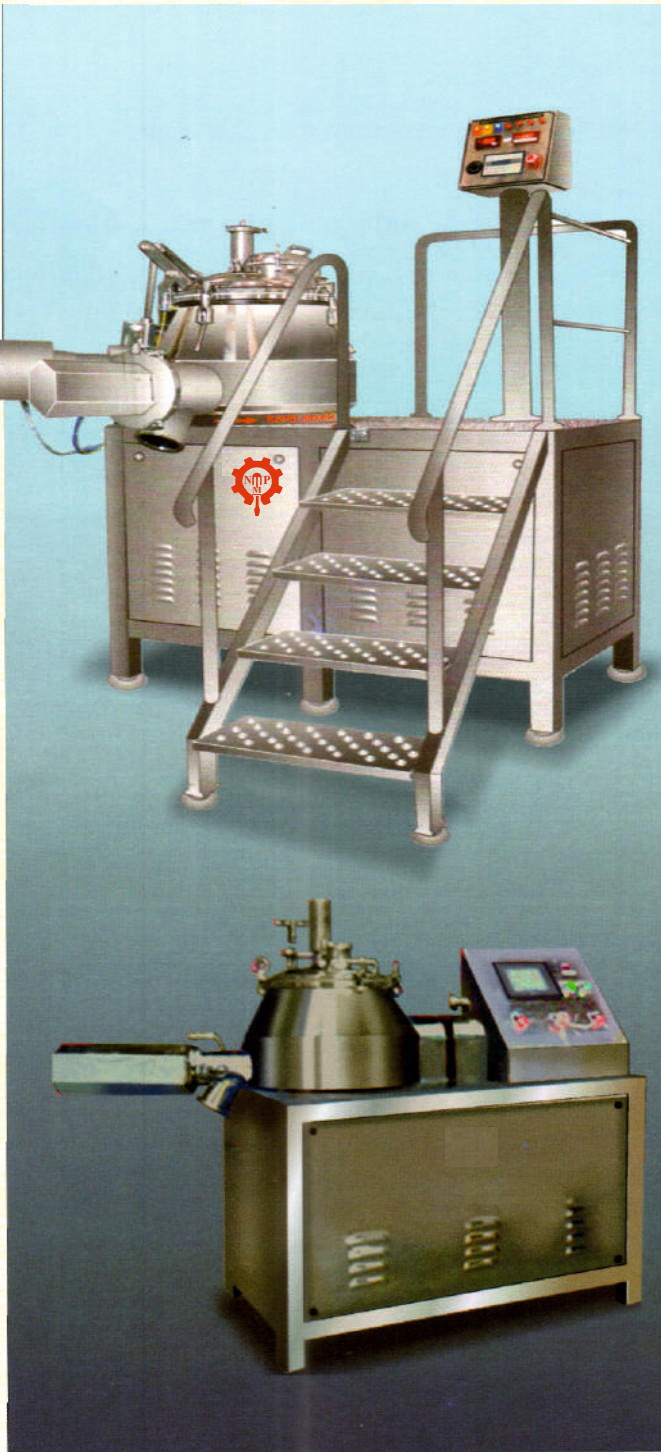
A pneumatic regulator with gauge provided for chopper & impeller to prevent leakage of water entering into shaft. Discharge pneumatically operated easier to discharge material into the container with to and fro motion.

#### INTERLOCKS

- For Lid.
- Impeller to chopper.
- For discharge of material.
- FBD container present or not unless the FBD bowl present at the discharge gate, material will not be discharged.
- Low air pressure and purging pressure interlock.

#### OPTION

CIP systems: Comprises of pump, Spray Ball Spray Nozzle with T. C.End. /PLC





## FLUID BED DRYER

NITIN **Fluid Bed Dryer** is used for processing of various minerals and chemicals in the Pharmaceutical industry. Our fluid bed dryer consists of a simple drying unit and helps in the conversion to a granulation or coater when optional packages are incorporated. Dryers are available in standard pneumatic logic and sophisticated computerized controls and are also offered in Steam heated Model. Our dryers provide simple solution to dry products and are high in performance

### Salient Features:

- cGMP standard constructed in 2 bar pressure.
- AHU & Exhaust blower, AHU comprises of pre-filter, Micro VEE and HEPA filter.
- PC satin cloth for filter bag, Sampling port, Illumination lamp, Explosion vent, Inflatable seal will be provided.
- Standard Auto Control System.
- Capacity ranges from 1 Kg to 350 Kg

## TRAY DRYER

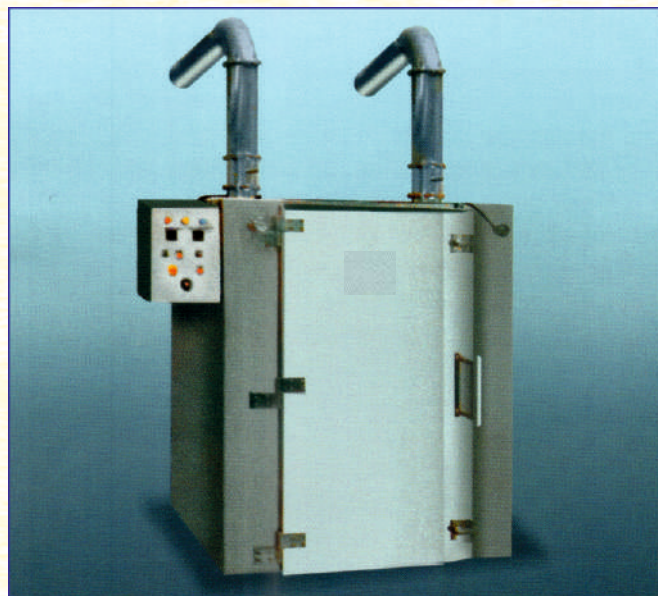
GEM Tray Dryer is the most conventional dryer used very widely and still being used where the moisture content is more and where the product has to be dried at low temperature for long hours. It can be electrically heated or Steam heated Tray dryer making with 6, 12, 24, 48, 96 and 192 trays. It can be inside outside MS or GMP model depending upon the product and industry requirement.

**Construction:** 3mm thick sheet & suitably with angles and sections. The dryer's external walls are from 1.6 mm SS of 304 qualities. The internal of the dryer is built of 1.6 mm thick SS 304 sheets. It is insulated with 50 mm thick glass wool insulation and Cladded with SS Polished sheets. Door lips- Neoprene rubber Gasket. Trays from 1.6 mm SS 304 with round corners, Mirror finish SS 316 quality is available on demand.

## VACUUM TRAY DRYER

Main Body/Vacuum chamber thick SS 316 Plate with heavy duty SS 316 flange and stiffeners. Door SS 316 plate (Hemisphere shape) SS 316 flange. Shelves hollow type pads with SS 316 sheet and baffles. Condenser (shell & tube) & receiver SS 304 with isolation valve and flow glass in between to monitor condensation. Trays in SS 316 rounded corners and edges. Explosion vent/ rupture disc on vacuum chamber. Pressure release valve in steam line.

**Provided on:** View and light glass vacuum chamber door, Silicon gasket for door and Nitrogen purging & Vacuum break valve on vacuum chamber. Internal 320 grit mirror polish, Outer 180 grit matt finish.  
**Optional:** Hot water system (steam heated) with MS tank (insulated), SS 304 steam radiator/electrical heater, Circulation pump with FLP motors and controls. Vacuum Pump (2 stage water ring) with FLP motor.





## DOUBLE CONE BLENDER

We offer a wide range of double cone blenders of superior quality. Our products homogeneously mix the dry powder and granules thus serving various applications in industries like food, dairy, beverage, pharmaceutical, cosmetic and chemical industry. Our range of products are known for their high quality, durable finish standards and flawlessness.

### Salient Features:

- Uniform mixing and easy discharge is made possible by the conical ends at both the sides
- Right or left side drive as per client's requirement
- Safe operation is ensured
- Special type of gear is provided for speed reduction



## OCTAGONAL BLENDER

The blending machine for mixing and lubrication process of dry granules homogeneously. Two third of the volume of the Cone Blender is filled to ensure proper mixing. It is appropriate for quick and efficient mixing for a entire range of powders, particulate and granular materials. In Octagonal Blender the granules comes from all sides due to the octagonal shape of the product container, hence prerequisite of RPM is less. The octagonal shape & slow speed of rotating gives adequate constant movement to the granules resulting in good quality.

### Salient Features:

Contact parts in stainless steel 304 or 316, Octagonal shaped with rectangular center, conical discharge frustum and rectangular top frustum Baffles provided in the shell, Manhole with gasket is provided to fix baffles and for ease of cleaning the shell Charging - discharging

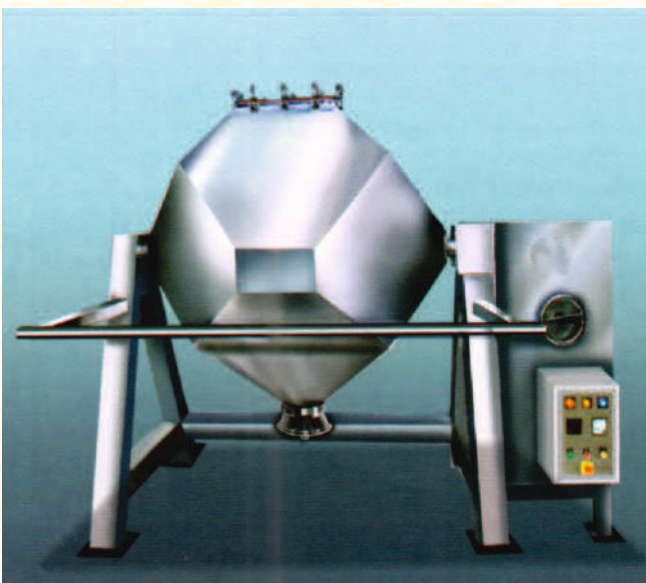


## POLYGONAL BLENDER

Polygonal Blenders offered by us is widely appreciated for their ability to offer homogeneous mixing within no time. Designed after extensive researches, our range comes in ultra-modern designs that occupy minimum space and enhances the labour efficiency. Apart from these, the factors that have contributed for a widespread demand of our range include.

### Salient Features:

- Ideal for large volume / batch blending
- Symmetrical with reference to X, Y & Z axes homogeneous mix in shorter time frame
- Extremely gentle handling of products due to very low rotational speeds
- Higher loading capacity - 75% of gross volume
- Most optimum "volume to space occupied ratio"
- Low power consumption easy and total discharge access for thorough cleaning slow speeds-low maintenance



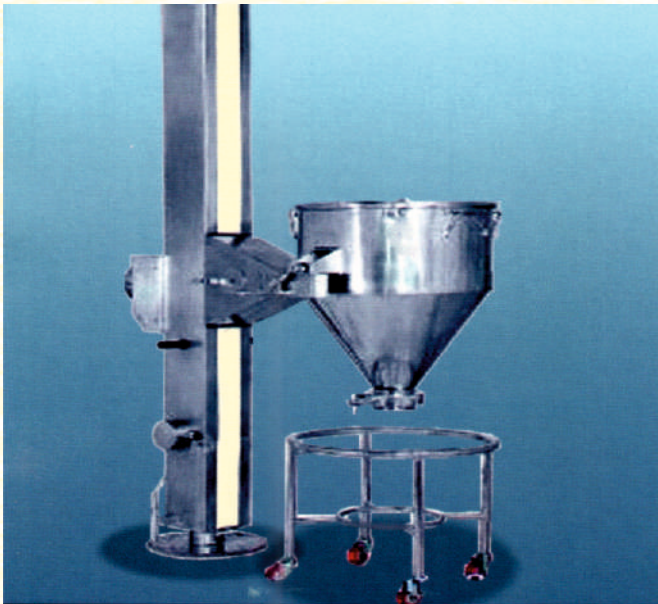




## MOBILE LOADING SYSTEM

NITIN Mobile loader with multimill and the shifter shall be used in line for milling and sieving. The Mobile loader shall be used for multi applications such as for loading powder in to RMG Blunders Compression Machines. The unique design ensure safety provision while loading and the arm extended to lead the material centrally. IPC Bins shall be used for lifting while charging and discharging the material.

The system will avoid dusting in the GMP area as well as it minimize the spillage of powder with the of silicone bellows.



## LIFTING & POSITIONING MACHINE

This Devices used for pharma industry for transferring & charging powder/granules with main equipment such as bin blender, tablet press, capsule filling etc. All contact parts AISI 316 & non-contact parts AISI 304. Fully automatic system with hydraulic lifting arrangement for quick and easy handling & conveying. Limit switches are provided to stop the hydraulic drive when the stroke is completed.

The unit allowing for reduce manpower and better GMP. It is dear for linear flows and allows for faster operations with minimum dust generation and reduce change overs. The unit totally movable type which can be placed near the blender and can be loaded through the container one by one.  
Capacities of: 60 to 100 kgs.



## CUSTOMER'S SATISFACTION

At NITIN customer satisfaction is at the core of everything we do, with the deep understanding of what the customer needs, We propose solution based on the customer's perspective.

- ★ In a continues effort to improve our product, manufacturer supplier reserves all rights to change the design, specification, features, price and plans of equipment without notice,
- ★ All pictures shown are approximate and not according to scale.







## **COLLOID MILL.**

NITIN Colloid mill is an ideal perfect homogenizer cum emulsifier. It finds its application in various types of processes like grindings, homogenizing, emulsifying, dispersing, mixing, extracting, creating to the need of several industries such as Pharma, Textile, Food, Dairy, sweetmeats / Confectionary, Chemical, Paints, Rubber, Cosmetics and Detergent, Sausage and Meat Packing, Starch and Pest Industry.

Outstanding and Rigid design criteria combined with excellent quality of workmanship of colloid mill automatically ensure superior end product. It is for small medium, as well as large batches of production.



## **FILTER PRESS**

High quality and durability is mainly used for crystal clear filtration of pharmaceuticals, chemicals, resins, beverages, distillery, oil and ink etc.

### **Model in different sizes:**

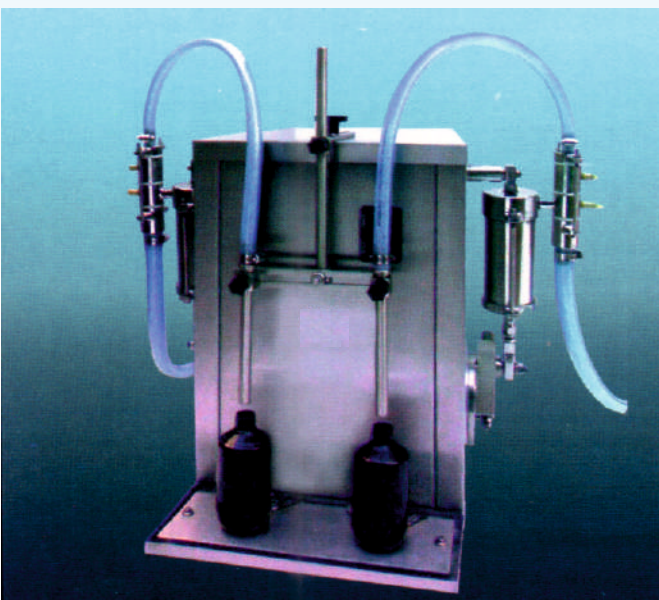
i.e. 8X8, 18X15, 14X12 and

## **ZERO HOLD UP FILTER PRESS**

Our machines are high in performance, low in maintenance, dimensionally accurate and breathe in quality and durability. It is mainly used for crystal clear filtration of pharmaceuticals, chemicals, signs, beverages, distillery, oil and ink.

### **All cGMP model in size:**

i.e. 8X8, 18X15, 14X12 and 14X10



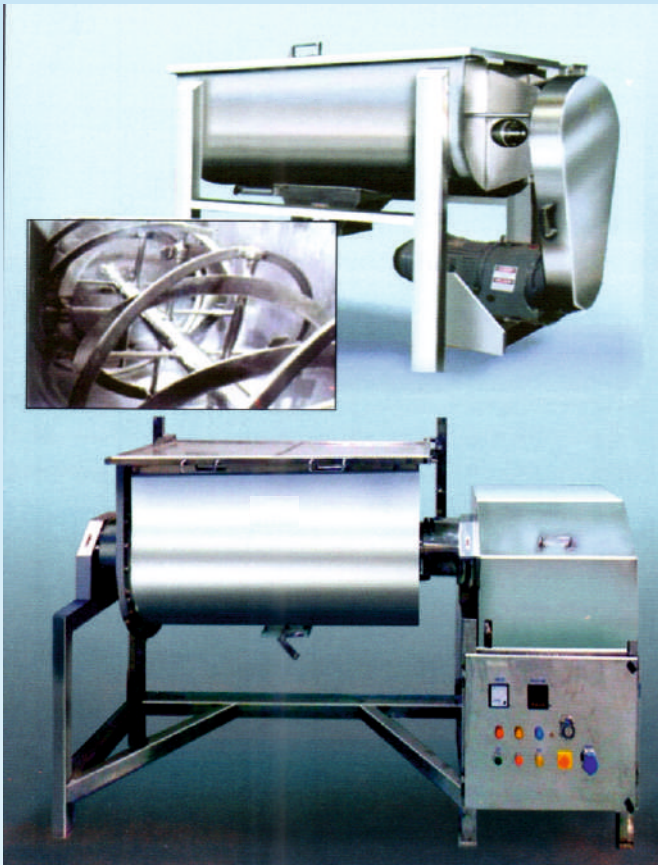
## **VOLUMETRIC LIQUID FILLING MACHINE.**

A wide range of NITIN volumetric liquid filling machine which is manufactured using quality raw material to offer hassle-free operation at clients' end.

Our machines are equipped with a unique bottle separation method and do not make use of a turret or holding slides and are widely in demand for filling foamy and other types of liquid using the syringe principle.

Our range of 4-head liquid filling machine (4HSL) is a multipurpose machine having a filling speed of 35 bottles per minute and is also provided for bottle fitting.





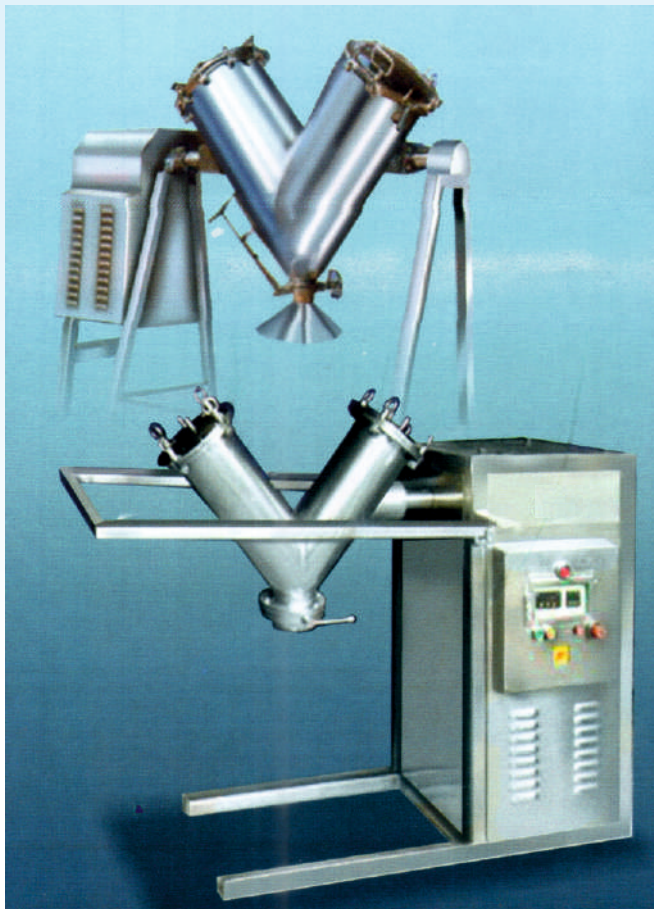
## RIBBON BLENDER

Ribbon blender comprises of a U-shaped horizontal trough and a specially designed double helical ribbon agitator rotating within. Ribbon blenders are based on a proven agitator construction that provides a tripla mixing action ensuring fast, efficient blending. The dimensions and configuration of the ribbons are carefully balanced to provide a movement of material within the container that avoids dead spots and gives rapid product discharge

Specially designed equipment for pharma industry for mixing various products properly. The mixing capacity of these mass mixers is 5 to 2000 liters as per the client's specific requirement.

### Salient Features:

- Optimum quality material.
- Effective handling.
- Less time consuming
- Easy to clean



## V CONE BLENDERS

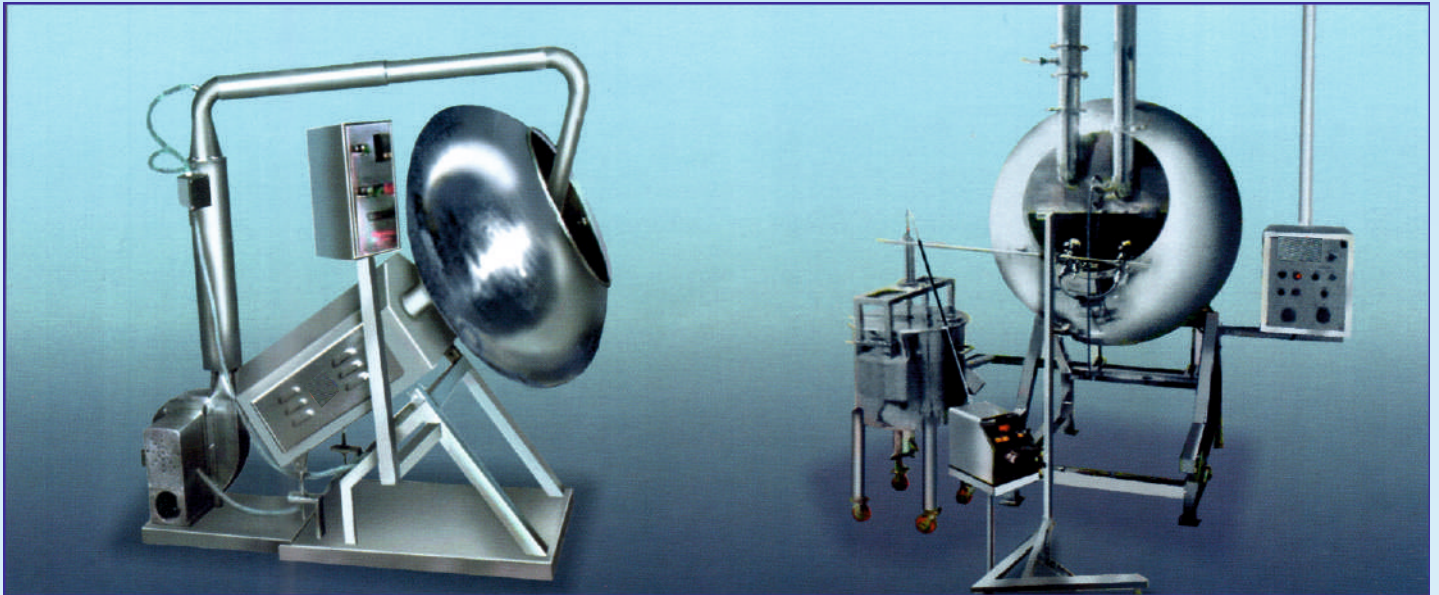
"V" Blenders are used for mixing of solid-solid or solid with liquid (Maximum 10%) in powder or granulated form. The mixer has a "V" shaped body held by two horizontal half shafts hold in bearing blocks & mounted on a sturdy structure. The vessel has opening at two ends with covers and outlet butterfly valve for discharge. he vessel is driven with the help of a worm reduction gear box coupled to an electric motor. All contact parts are made of stainless steel 304/316 quality. Stand can be of MS or SS claded for GMP Model. All SS parts are mirror polished to mirror finish from inside and matt finish from outside. The unit is provided with a control panel board with safety railing. It allows smooth mixing without deforming the particles or a strong mixing by breaking the lumps. Discharge by gravity

### Salient Features:

Easy for cleaning, loading and unloading and needs minimum maintenance. Contact parts in SS 304/SS 316 Quality and available in Standard GMP.



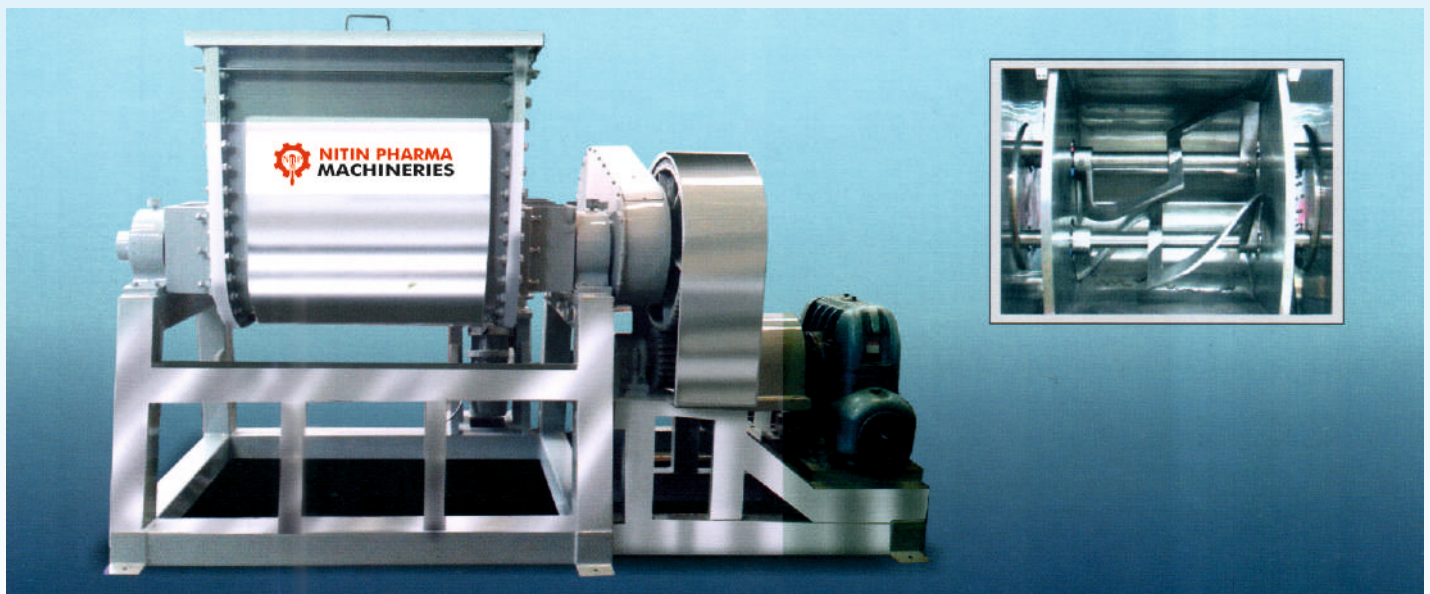




## CONVENTIONAL COATING PAN

The Coating pan is simple unit, which spraying the costing solution on it and passing hot air across the tablet bed. An exhaust blower may be used to carry away the excess fumes generated during the coating and drying process. It is useful for monitoring, controlling and optimizing the complex coating process, which ensures uniform surface coating. The pan is semi-ellipsoidal shapes with a circular opening at top that is designed with M.S.fabricated structure. The electric control air filter. Also available polishing pan with hot Air Blower.

**cGMP model available:** (Lab Model 12") to 18",24",36",42",48" ,60" ,72".



## SIGMA MIXER

The **Sigma Mixer** is used Pharmaceutical & Chemical industry. These are used to solve the purpose of mixing and kneading highly viscous materials. Kneader consists of different blades moving at different speeds in opposite directions to properly mix the carrying material. High quality SS and customized manufacturing of sigma mixer.

### Features:

- Available in all grades of Carbon Steel and Stainless Steel
- Available capacities: 5 Liters to 3000 Liters    Worm reduction gearbox    Helical reduction gearbox





## PLANETARY MIXER

NITIN Planetary mixer that is designed to meet various industrial requirements. The Mixers are ideal for blending materials of different consistencies, viscosities, densities, shapes and proportions. This mixers effectively mix liquid with solid / solid with solid. Used for mixing of powders, ointments, creams, lotions, pastes, toothpaste, cosmetics, food and confectioneries, rubber and rubber compound, colors /pigments, pvc, plastic, ceramics, pesticides, insecticides, adhesives, metal powder and resins etc.

Available in all grade of carbon steel and SS Optional, Teflon coated internals for food and sticky material application. Jacketed construction available for steam & cooling application. Various types of beaters provided for different materials, Flame proof construction option.

### Salient Features:

cGMP Model available in capacities of 50 ltr to 1000 ltr.

## DRUM PRESS

For pasty products of medium to high viscosity and with low flow ability.

All operational controls are easy to operate for products, The Hydraulic unit drive installed at the top of the frame provides the required pressure via a hydraulic piston for both discharging of the product and raising/lowering the platform together with discharge vessel. The product has not contact with the air while packing operation proceeds. The plunger ring, as it moves down, scrapes the vessel wall thus facilitating its subsequent cleaning. The lowering speed of the plate is adjustable thus enabling good control of the discharge process.

### Technical Data

Transfer Press with Safety Frame/Cage

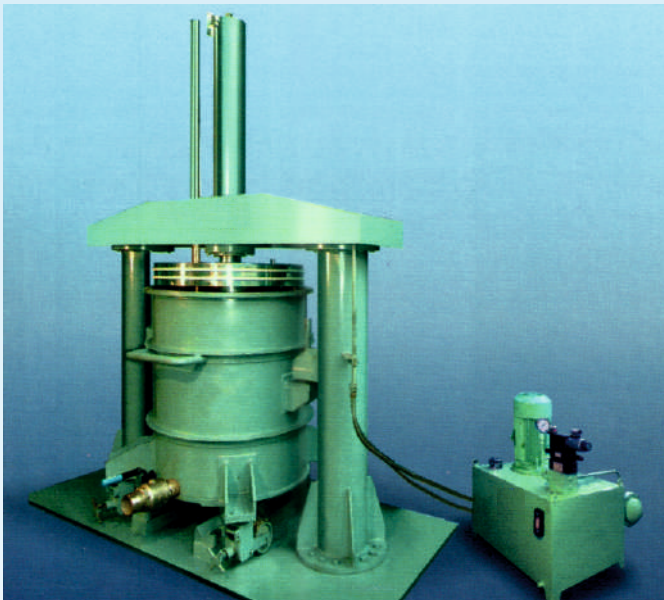
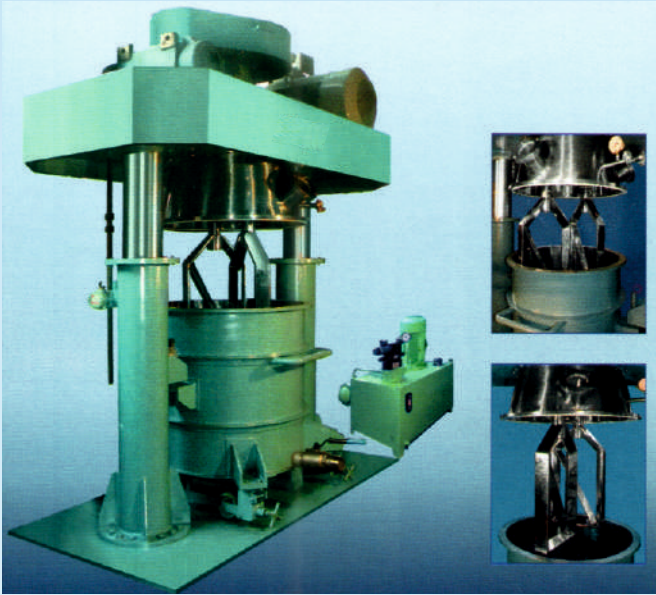
Main Motor For hydraulic: 2HP, Motor: 1440 rpm

Motor Protection Type: Non FLP, Frequency: 50Hz.

## PLANETARY MIXER

NITIN Planetary mixers supplied with mixing bowl sizes as small as 2 litres, for use in laboratory and R & D facilities, right up to 3000 litres, for large-scale production. For Process require heating, Cooling or vacuum Mixers can be built to suit any application.

All product contact parts are made from stainless steel Also available special materials or surface coatings such as Teflon. NITIN Planetary mixers can be supplied suitable for use in appropriate electrical controls from a basic control cabinet right up to a fully automatic control system. For Food and Pharmaceutical applications, rest assured NITIN Machines with GMP/FDA. Full validation documentation IQ/OQ / FAT/SAT is available.





## LIQUID FILLING MACHINE

For Pharma, Beverages, Chemicals and Cosmetic indus. All contact parts from SS 304/316 quality as per product requirement. The drive mechanism is enclosed in a MS and frame clad with SS. Machine making is various fill volumes and in models having 2,4,6,& 8 filling heads. Separate syringes for fills smaller than the machine ordered & which can be fitted on the same drive are also available outputs of the varies according to the machine size and the viscosity of the material to be filled.

### Automatic model with conveyor Volume Setting:

In mechanical model volume is set by manually adjusting the setting screw mounted on the setting block.

**Salient Features:** 1) Reduced man power 2) Easy bottle changeover 3) Linear yet compact system 4) Suitable for any container 5) Can be directly attached to the online capping machine 6) Special attachment for Astacidae.

## ROPP CAP SEALING MACHINE

- The Machine is made compact and versatile.
- SS Matt finished body.
- Front side control panel.
- Easy and quick setting, No change part required.
- Up and down head movement facility.
- Low noise level, low power consumption.
- adjustable bottle height gauge for easy and quick setting.
- SS cladding or hard chrome plating of all outside parts
- Sealing pressure can be varied to suit diferent gauge and sizes as bellow.

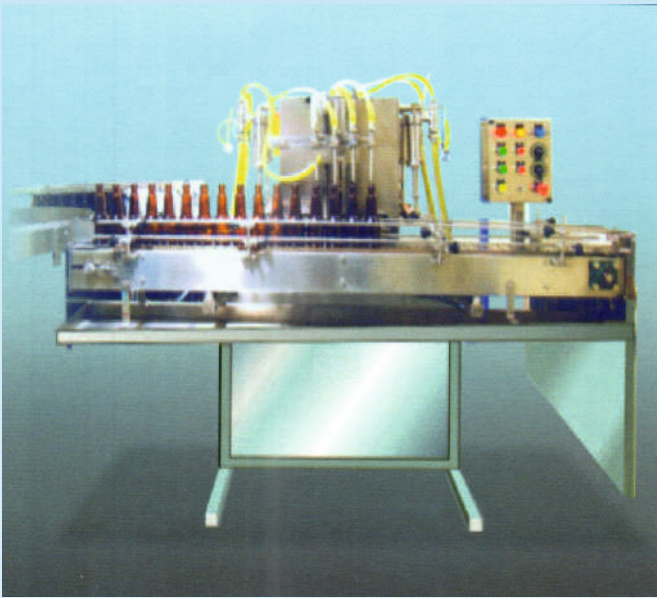
MODEL	NITIN ROPP
OUTPUT / HOUR	1000 TO 2400 CONTAINERS
NUMBER OF SEALING HEAD	1 NUMBER
POWER CONSUMPTION	1 HP / 415 VOLTS / 50 HZ

## NITIN IPS CONTAINERS AND BINS

The use of IPC minimizes the overall amount of handing that occurs in a manufacturing process and other such process. Available in different capacities ranging from 25 liters to 1500 liters, these containers offer many benefits including automation capability and dust free product transfer.

### Salient Features:

It helps to control containment and cross contamination Provided with butterfly valve for discharge Personal safety Effective process & unit operation feed Reduction in segregation.







NITIN Sugar syrup manufacturing plants are ideal tools for the pharmaceutical industry for the production of Oral Liquids. Its is specially designed to take care of two critical factors which directly affects the quality of the Liquids. It also provides the benefits of the effective manpower utilization.

## The Salient Features

- The Plant is designed to be operated only by one operator and one helper.
- All material transfers are done by vacuum or transfer pump. (Optional).
- All the vessels are cGMP (paint free). The gaskets used are of silicon (Food grade).
- All contact parts are of SS 316 and non contact parts are of SS 304.
- The entry of all stirrer & high speed emulsifier from bottom. (As per customer's choice).
- All vessels are suitable for eternal pressure of 1kg/cm<sup>2</sup> and hence can be sterilized.
- All pipe fittings & valves are of SS 316 (as per requirement) seamless quality, internally electro polished, with tri-clover ended joints. The entire plant is equipped with CIP and SIP connection.
- Temperature Meter and time of the plant are indicated digitally on the control panel.
- Ampere indicates on Ampere meters.
- PLC based automatic operating plant can be designed as per requirement.

## Operation Sequence For Sugar Syrup Manufacturing

Ensuring body internal of the works are cleaned thoroughly.

Charging of pre-determined Sugar & water quantity to Sugar melting vessel.

Supply of steam and melting down the sugar.

Addition of additives manually and mix at preset temperature.

Transfer the melt down Sugar to the manufacturing vessel after filtration through lobe pump.

Supply of steam & heat them in manufacturing vessel.

Starting Homogeniser for emulsification and dispersion After confirmation of Sugar syrup discharge the product to filter press for filtration which then transferred by lobe pump to storage vessel.

Keeping the product under agitation, transferring the product to the filling line through transfer pump.

## Plant Consist the Following Equipment and Accessories

- Sugar melting Vessel with bottom entry stirrer.
- Mfg. Vessel with bottom entry homogenizers.
- Storage Vessel with bottom entry stirrer.
- Control Panel.
- Product Piping with filters and valves.
- Working Platform.
- Transfer pump-Centrifugal.
- Filter Press.







NITIN Ointment/ Cream machine that we are offering to the clients is effective, efficient and reliable in all possible conditions. This product is designed by the personnel, having years of experience & expertise in their working areas.

### **Operation Sequence for Ointment and Cream Manufacturing**

Ensuring body internals of the works are cleaned thoroughly, Charging of pre-determined water quantity to water phase vessel supply of steam and addition of additives manually and at Preset temperature, Charging of oil / Petroleum jelly / Wax to oil phase vessel supply of steam heat temperature addition of additives manually and mix at preset temperature Starting homogenizer for emulsification and dispersion vacuum. Transfer the heated oil and heated water to manufacturing vessel. After confirmation of cream/ointment discharge the product to storage tank using lobe pump keeping the product under slow speed cogitation in storage vessel transferring the product to filling through metering pump.

### **Technical Specifications**

These plants are ideal for the pharmaceutical & cosmetic industries for the production of ointment, cream, lotions, tooth paste and other emulsions & homogenization, specially designed to take care of two critical factors which directly affects the quality of the ointment/creams minimum man handling of ointment/ negligible vacuum drop during mixing-blending provides the benefits of effective manpower utilization.

### **Salient Features**

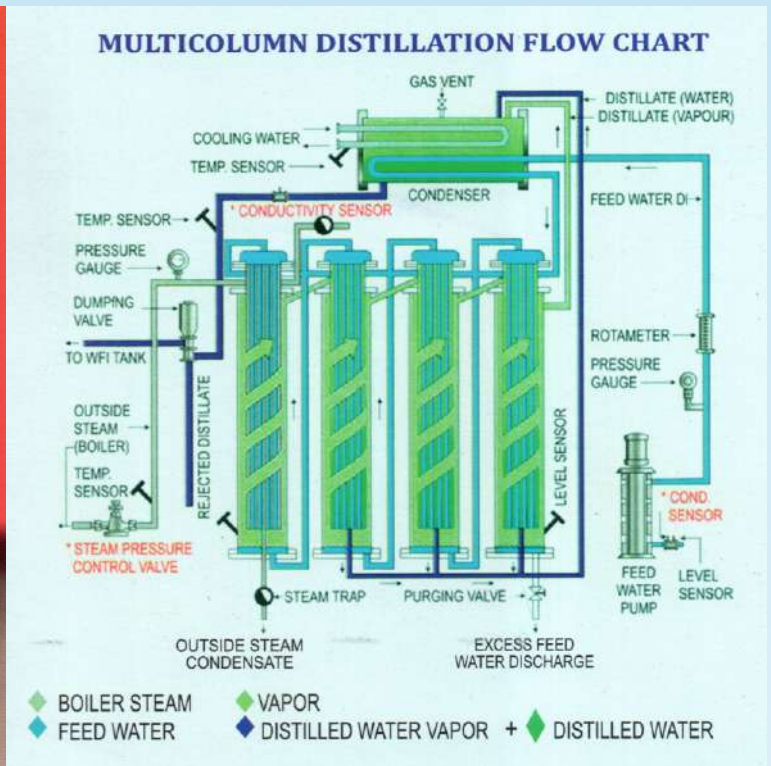
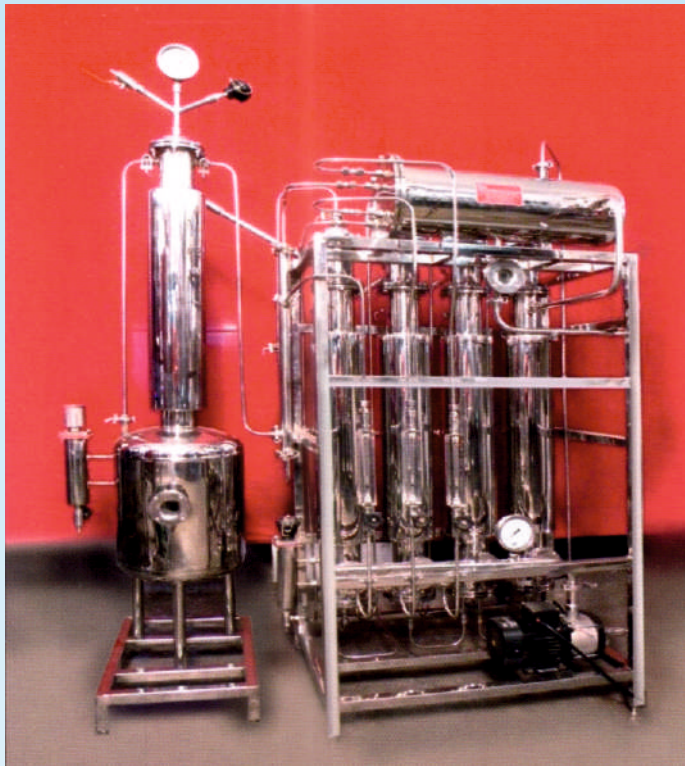
- The plant operated only by one operator and one helper.
  - Material transfers are done by vacuum or by transfer pump.
  - All contact parts are of SS 316 quality material, All vessel are suitable for internal pressure of 1kg. cm<sup>2</sup> and hence can be sterilized.
- The entire plant is equipped with CIP & SIP connections.  
All values of temperature of the plant is indicated digitally on the control panel.  
All vessels are cGMP model, Capacities of 10 to 1000 kg.
- PLC based automatic operating plant designed as per requirement.

### **Equipment and Accessories**

Manufacturing vessel or jacketed planetary, Wax phase vessel with top entry stirrer, Water phase vessel with top entry stirrer, Storage vessel, Vacuum pump, Control panel, Product piping, Working platform, Material transfer pump to transfer material from manufacturing vessel and storage vessel to ointment.







NITIN'S Multi Column Distillation Plant is based on the principal of interstate heat exchange to produce pure pyrogen free sterile distilled water. A part of feed water on the inside of the heat exchanger tubes is converted to steam because of surface film evaporation. A predetermined minimum amount passes through the column which causes both rapid heating of feed water & rapid cooling of boiler steam, therefore creating vapors at high velocity under pressure. This vapor rising through the entertained section is subjected to a 180 turn caused by centrifugal force. Due to spiraling motion, the pure vapor rises upward through a vertical section outside the heat exchanger. Due to this unique centrifugal separation technique, the impurities such as endotoxins and Pyrogen are removed. The purified steam then moves towards the upper portion of the column. The pure steam in the first column serves as the source of heat for the second column. This process is repeated in all the 4 to 5 columns or more. Each column is working at a slightly lower temperature and pressure than the proceeding one. The heating energy requirements are reduced by 70% as external heat is requires to vaporize only 30% of the feed water.

### Salient Feature

- Pure sterile, pyrogen-free sterile distilled water conforming to I.P./B.P. Standards.
- Energy saving-low operating costs. ● Fully automatic operation - no attendant required.
- Automatic dumping of Sub-standard distilled except for 80 liter still.
- All contact parts are fabricated with type 316 acid -resisting SSI and all joints & connections are sealed with Teflon gaskets. High distilled temperature-no extra heating necessary for storing pyrogen - free distilled water.

### Design Features

- Panel board with PLC, Microprocessor controls, facilitate self regulation and self monitoring except for 80 litre still.
- Positive air/gas venting to ensure pure distillate.
- Centrifugal Feed Pump fabricated with type 316 SS.
- A SS Centrifugal Pump for cooling water transfer.
- Electro polished cervicalis, inner contact surfaces.
- Improved cooler design for optimum efficiency.
- Maximum pressure 8-10kg/cm<sup>2</sup>.
- Conductivity meter for feed water and final distillate.

### Optional Accessories

D.M. water storage tank with Float Control to maintain level of feed water.  
Steam pressure reducing station with diaphragm type valve to adjust the steam pressure from 2 Kg/cm<sup>2</sup> to 7 Kg/cm<sup>2</sup> with an indicating pressure gauge.

### Technical Specifications

**Distillate:** Meets I.P./B.P. Specifications, **Temperature: 95°C, Conductivity:** Less than 1 Microsiemen/cm.

**Feed Water:** De-ionised water with max. conductivity of 5 Microsiemen/cm should be used. Feed Water Pressure-should be 1 Kg/cm<sup>2</sup> higher than the infeed feed pressure. Temperature-ambient 30°C

**Cooling Water:** Normal tap water is used to provide hardness in less than 90 PPM of CaCO<sub>3</sub>.





# Company Profile

**NITIN Pharmaceuticals Machineries is a global provider of Pharmaceuticals, Chemicals, Ayurvedic, Cosmetics, Beverages, Food, Distilleries and allied industries. It is one of the quality oriented manufacturer in India supplying wide turn Key projects in Pharma industries.**

**It is situated in industrial area of Thane District with highly potential workers, qualified personnel, technical engineers, experienced technical personnel who are in the field of design, manufacturing and execution of Pharmaceutical / Chemical project for a long time. The manufacturing infrastructure is quite spacious to handle big project with excellent outstretched facilities especially Material handling, Safety, Inspection and Operation etc.**

**The company was started in the year 2014 with very few people by Mr. Ramesh completing pharmaceutical liquid facility. Initially the company supplied machines to liquid oral plants such as Filter Press, Pumps, Tanks etc. Later the company has developed and become a leading company to compete in Granulation, Ointment/ Cream, Liquid Oral, manufacturing plants especially specialized in Dryers, Blenders and Mixers.**

**Thank you**



**Factory / Office :**

**Jamboli Pada, Behind Plot No. F/64, Nea Raj Hotel, MIDC, Ambernath (E), Dist. Thane - 421506**

**Contact : 98925 58202 / 90828 29442 | Email : [nitinpharma76@gmail.com](mailto:nitinpharma76@gmail.com)**