



About Us



Pro-active management and continuous product innovation have enabled us to earn a good will among our customers. We have our strong presence in USA, CIS regions, and Far East countries.

MAJOR INDUSTRIES WE SERVE:

- | | |
|-----------------|---------------------|
| 1. Agrochemical | 6. Fertilizer |
| 2. Chemical | 7. Food Processing |
| 3. Cosmetics | 8. Paints & Dyes |
| 4. Dairy | 9. Petrochemical |
| 5. Detergent | 10. Pharmaceuticals |

INTERTECH EQUIPTECHNOLOGIES PVT.LTD. was established in the year 1996 & started its journey to carry out fabrication & to provide technical advisory design services along with design and development of equipments & machines. Since then, our activities have slowly and steadily grown and today we cater to a wide spectrum of clients in Pharmaceutical, Cosmetic, Food, Chemical and other allied industries with over 100 varieties of Processing, Packaging and allied equipments & machineries. The strong technical background, enterprising skills and best available engineering know-how enabled us to project our presence as a leader of manufacturer & exporter. We provide services including Equipment selection, Turnkey project execution, Installation and After sales service. We have our offices located both in New Delhi & Mumbai.

We handle Pharmaceuticals, Cosmetics & Personnel care and Food projects from Conceptualization to Execution within relevant standards. While our engineering, design, procurement and management services are available in comprehensive project packages. We also provide this engineering project management, project management & consultancy services individually or in any combination that a client specifies. We support process, utility & environmental systems, facilities & plant infrastructure. Etc.

We stress on an environmentally-friendly industry as a common target. The Company endeavours towards achieving an engineered solutions for processes demand of all Pharmaceuticals, Food, Cosmetics & other allied industries.

FACILITIES

The success story of the company can be largely attributed to its continuous efforts in upgrading technologies. Today, the company offers state-of-art standard models. G.M.P. models with the options for Fully Automatic PLC Controls for various Process & Packaging Equipments, designed to suit a specific end process as required by the Client's product.

We have experienced and skilled personnel to develop and manufacture quality machinery in our well-organized factory at Mumbai & Gujarat (INDIA). We design and fabricate various equipment to overcome difficulties and problems encountered by chemical, pharmaceutical and engineering industry. At INTERTECH the efficient and academically qualified team spares no stone unturned, to be the best in custom built engineering by combining State-of-the Art design and technology.

QUALITY

The Company is committed to ensure that no trouble being spared to see that every user is satisfied with his equipment. The company has in-house Quality control unit equipped with latest testing facilities & manned by highly technical and skilled work force to ensure strict quality control. Quality of our product is compatible to international standards. The Company offers a wide range of models of various capacities which suit a specific end use i.e. Lab Models, Pilot Plant Models and Batch Size Production Models of various capacities.

SERVICES

(A) Project management

Skillful & experienced management is vital for the success of any project. Our project teams provide total capability for project of any size. Each team brings together experts from many fields.

Project management services include:

- Planning & Scheduling
- Procurement & contract strategy
- Design management & Cost control
- Schedule control, Reporting & related aspects

(B) Design

We have resources to provide traditional design services as well as specialized capabilities in leading edge technologies. We also design the processes, crucial to getting your products to the market and improving your operations. From production processes and technology implementation to process control and advanced systems.

Our design services include:

- Detailed Engineering
- Process Engineering
- Chemical Engineering
- Electrical Engineering
- Mechanical Engineering & related aspects

(C) Utility Management

We have experienced personnel in the process, utility management, project management energy conservation study, cost control techniques. These project management tools, along with our experience and facility of pilot plant study ensures a practically zero defect system in all undertakings that we do.

Utility management services include:

- Constructability studies & Site supervision
- Safety and security & Materials control
- Quality control, Cost control & related aspects

(D) Commissioning & Validation

We help you minimize the amount of time it takes to get your facility fully operational, with testing, validation and start up services to assist you in commissioning your plan. Once your facility is up and running, we can help you with continuing services that encompass preventive maintenance plant upgrades, and line change-outs, in order to minimize downtime and maximize production flexibility:

Commissioning & Validation services include:

- Validation master planning & validation protocols
- Installation qualification & operational qualification
- Process qualification, mechanical completion & related aspects

(E) Validation & Reports

INTERTECH considers validation very important requirements for both the client and us, as this is the only system available for ensuring constant improvements and modernization in the processes.

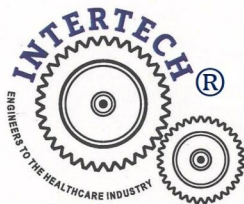
Our validation services comprise a multi disciplined team of engineers. We provide validation and GMP compliance services to the bulk and secondary pharmaceutical and medical device industries.

We offer a comprehensive range of validation services

- Validation master plans (VMP)
- Computer system validation
- GMP training for project engineering disciplines
- GMP material & personnel flows

CLIENTS

The products are of proven performance and can be seen in use in Small Scale Industries, Top Leading Indian Companies and Multinationals. Our products are also exported to various African, Gulf, European countries both directly & also through third party exports. Our clients are dispersed in Maharashtra, West Bengal, Tamilnadu, Andhra Pradesh, Haryana, Himachal Pradesh, Orissa, North East and many Union Territories in India.



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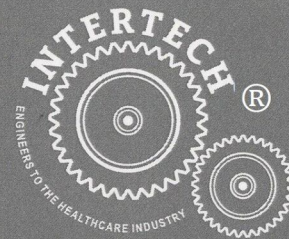
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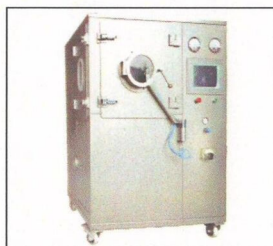
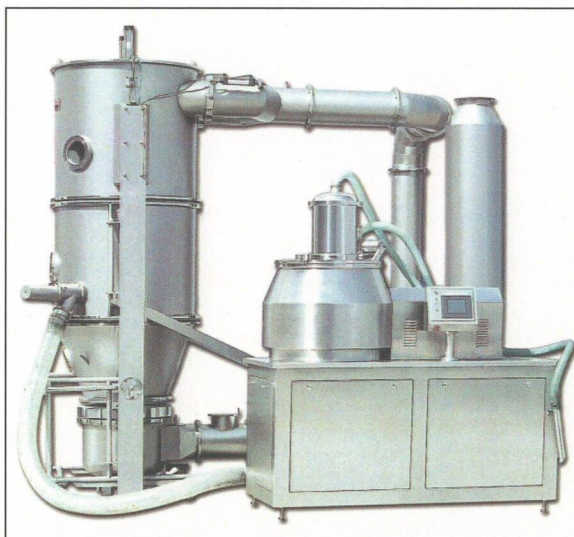
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Tablet Granulation Process



Successful Tablet Manufacturing Process is well measured by Containment strategy of Powder Processing to convert Powder into Compressible granules form. With growing demand of higher potency Tablet and reduction its intake size, has forced Pharmaceutical companies to go for High Potency Ingredients. The inherent challenge which comes up with high potency ingredients is to contain this powder so that OEL (Operator Exposure Limit) for powder is as minimum as possible. INTERTECH has successfully Designed, Manufactured & Validated Closed Loop Powder Process Technology in Tablet & Capsule Manufacturing.

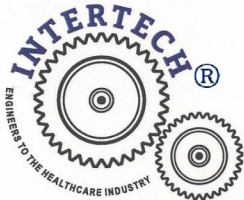
Beside Powder Granulation Process Automation, INTERTECH has also commanded reputation in converting art of Tablet Coating Process thru Proven Engineering product "AUTOCOATER" where closed control on all process parameters using PLC -Touch Screen Interface allows total command on Coating in the hands of operator. Various Coating demand of Tablets i.e. Aqueous, Organic & Sugar based solution can be easily achieved using precise control of Spray Arrangement using Walther pilot / De VILBISS ACG airless spray gun along with temperature & RH control of incoming air. Critical input of Tablet coating system, i.e. Air Volume, Ultrafine filtration of air Using HEPA Filters EU13 grade & Containment of exhaust from Coating unit using Dry & Wet Scrubber, are well within the settable & controlled scope of operator.

Construction Features:

- Vibro Siever - Powder Grading (Sieving) Machine
- IPC Bin – Powder Collection Bin
- Powder Loading System - Pneumatic Conveying System or Mechanical Loader
- Rapid Mixer Granulator – Wet Granulator
- Conical Mill – Wet Milling
- Fluidized Bed Processor cum Dryer – Wet Granulation cum Granules Drying
- Granules Loading System – Pneumatic Conveyor
- Container Bin – Granules Collection Bin

- 100 % CIP / WIP enabled in compliance of validation master plan (VMP)
- Fabrication as per ASME / BPE code
- Operation control available in various modes i.e. Manual / Semi-Automatic / completely Automatic with high performance control systems i.e. PLC / HMI/ SCADA Automation designed to latest GMP standards which are compliant to 21CFR Part 11 and other Applicable codes as required and defined in URS

Equipment's for Closed Loop Powder Process Technology are available within batch size of 10 Kg to 300 Kg. Better Engineering & GMP compliance of Equipment's are inbuilt features of INTERTECH Tablet Manufacturing Equipment's.



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WE DEAL IN...

- ▶ HIGH SPEED WET GRANULATOR
- ▶ FLUIDIZED BED DRYER
- ▶ BLENDERS
- ▶ MATERIAL HANDLING DEVICE
- ▶ TABLET COATING SYSTEM

- ▶ DISPENSING BOOTH
- ▶ SIEVER
- ▶ PASTE KETTLE
- ▶ MILLS

TABLETING SECTION

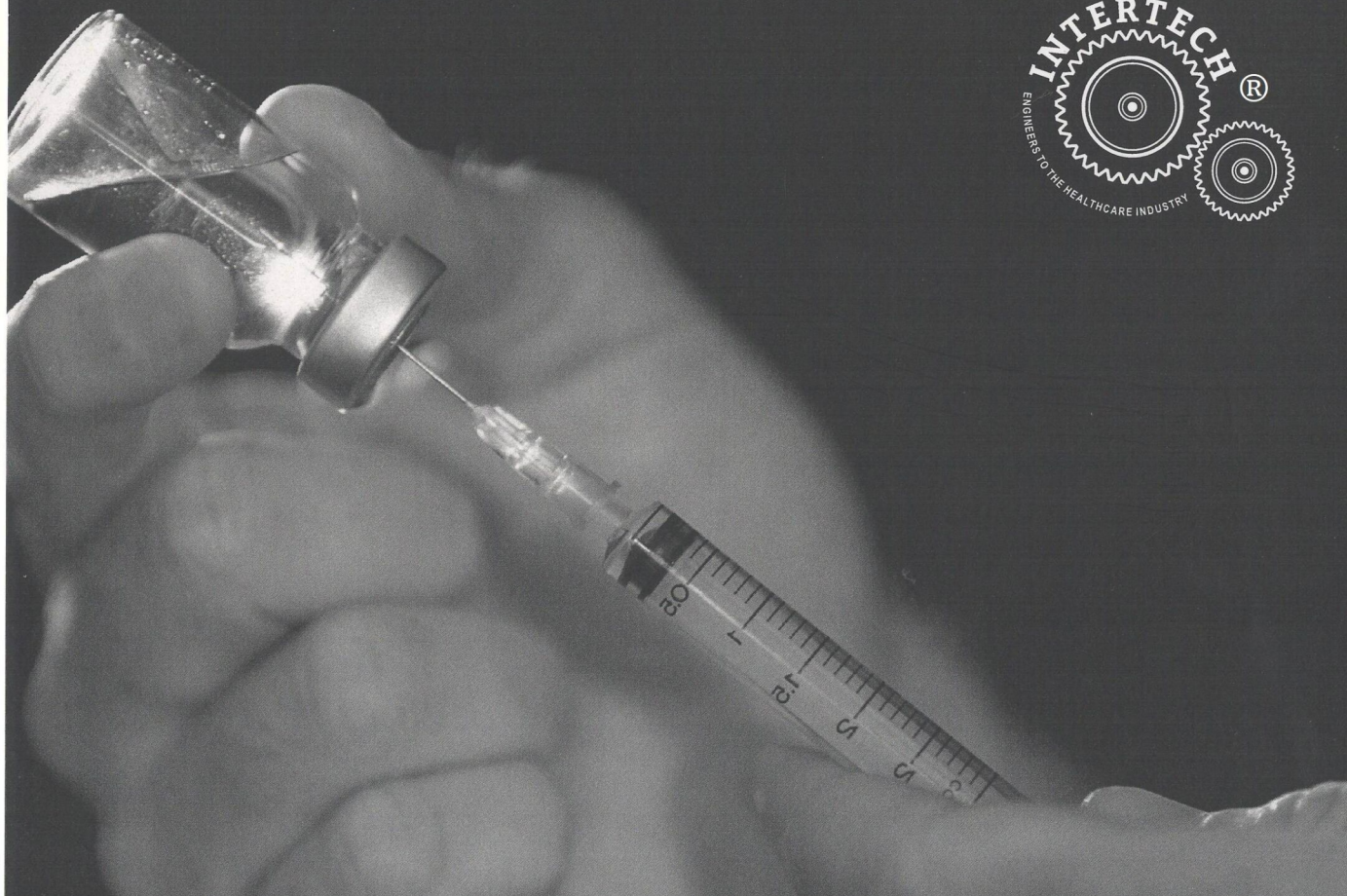
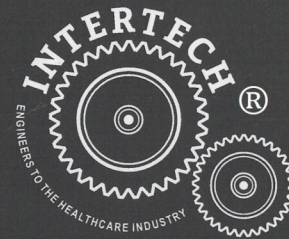
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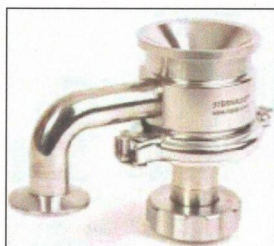
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Injection - Sterile Liquid Process



MAGNETIC MIXER

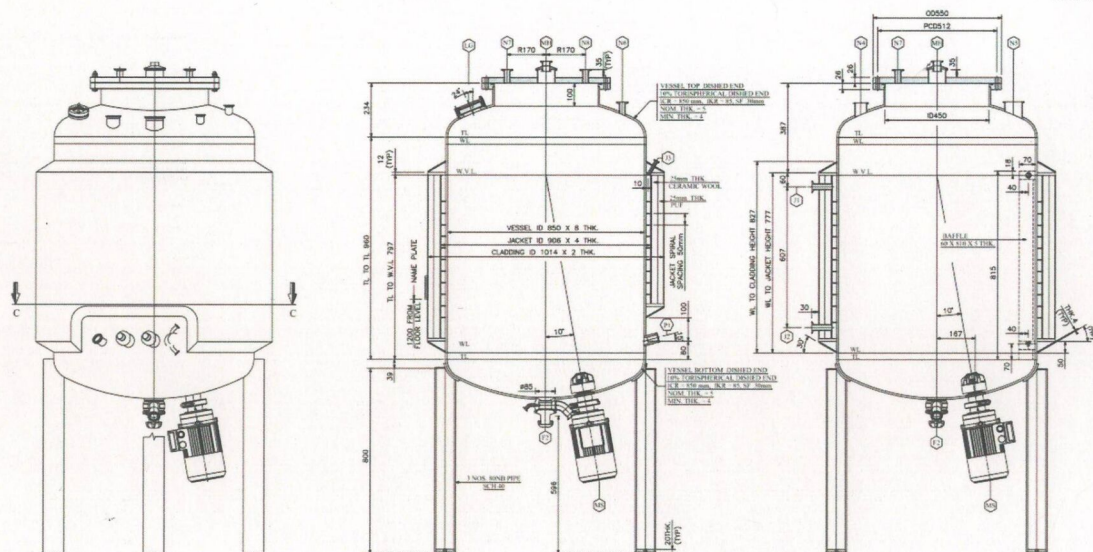
INTERTECH has long back recognized the added benefits of Magnetic Mixers for ultra sterile operations. The vessel shell is not been penetrated and there are no mechanical seals. This prevents toxic or high value media from leaking out of the vessel. Magnetic Mixers are suitable for viscosities up to 1000 cps at operating temp. Magnetic Mixer range offers great batch flexibility, because a relatively small volume of product will cover the impeller-mounted very close to the vessel bottom. Bottom mounting also leaves the top of the vessel clear for easy vessel access.

Magnetic Mixer has a drive mechanism that can be removed quickly and easily – a major advantage, because small vessels can be autoclaved rather than sterilized-in place (if preferred). All product contact parts are stainless steel 316L, with special grade tungsten carbide bearing surfaces.

These allow smooth trouble free operation and are an integral part of the impeller head and carrier. The open impeller design allows easy cleaning and can easily be removed for separate cleaning and sterilization. INTERTECH Magnetic Mixers are fully engineered & designed for better CIP/SIP compliance.

Applications

- Injectables
- Vaccines
- Serums
- Plasma Fractions
- Suspensions
- Infusion Solutions



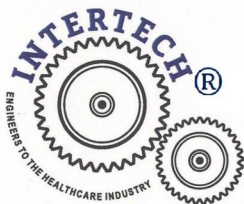
Model	Mixing Capacity Liters (Gentle)	Mixing Capacity Liters (Blending)	Mixing Capacity Liters (Vigorous)	Motor Power Rating	Impeller Diameter
IET 120	10 to 40	10 to 30	10 to 20	0.12kW	95mm
IET 370	50 to 650	30 to 5000	30 to 350	0.37kW	115mm
IET 750	500 to 2500	500 to 2000	500 to 1500	0.75kW	170mm
IET 1100	2000 to 6000	2000 to 5000	2000 to 3500	1.1kW	200mm
IET 1500	4000 to 12000	4000 to 10000	4000 to 75000	1.5kW	240mm
IET 3000	6000 to 25000	6000 to 20000	6000 to 12000	3.0kW	300mm

- The mixing capacities above are based on aqueous like products with a density of 1000kg/m³ (S.G.=1) and a viscosity of 1cp.
- Typical applications for 'Gentle' mixing are where solids are held in suspension.
- Typical applications for 'Blending' are where soluble liquids are mixed together or where powders easily dissolve into the liquid.
- Typical applications for 'Vigorous' mixing are where a vortex is required for blending of powders into a liquid.

It should be noted that higher is the viscosity, lower is mixing capacity of Mixing head. Therefore, selection of Mixing head is based on media Viscosity & demand of mixing application.

Construction Details:

- Inside the impeller head is a ring of rare earth magnets encapsulated in a 316L stainless steel housing. Welded to this housing are the mixing blades, which form an integral impeller head.
- The blade shape and profile has been determined to optimize agitation levels and to direct a proportion of the cleaning fluid through the head.
- A drive unit mounts externally to the vessel and can be quickly and easily removed using a bayonet type connection. This is particularly useful when sterilizing the vessel in an autoclave or when sharing a single drive unit between vessels.
- The impeller head runs on a special grade of tungsten carbide that has been manufactured under controlled conditions to achieve the correct size, grain structure and hardness. The running surfaces have a ground mirror finish.
- The vessel can be Cleaned in Place (CIP) using spray balls and/or by immersion in a cleaning fluid. For maximum effect rotating type spray heads are recommended. Sterilization in Place (SIP) is possible with temperatures up to 145°C.
- A wide range of operating controls are supplied from a simple stand-alone panel to a fully integrated automation system.
- The Female bearing (rotating bearing) in the centre of the impeller body is Silicone Carbide.
- The Ultra Clean Mixer has been designed to meet the critical standards of the Pharmaceutical and Biotech industries
- Magnetic Mixer complies with current Good Manufacturing Practices and the requirements of Indian, British and the United States Pharmacopoeia of Water for Injection. All documents related to Factory Acceptance Test (FAT) like Installation Qualification (IQ), Operation Qualification (OQ) and Performance Qualification (PQ) are provided as a part of the operating manual.



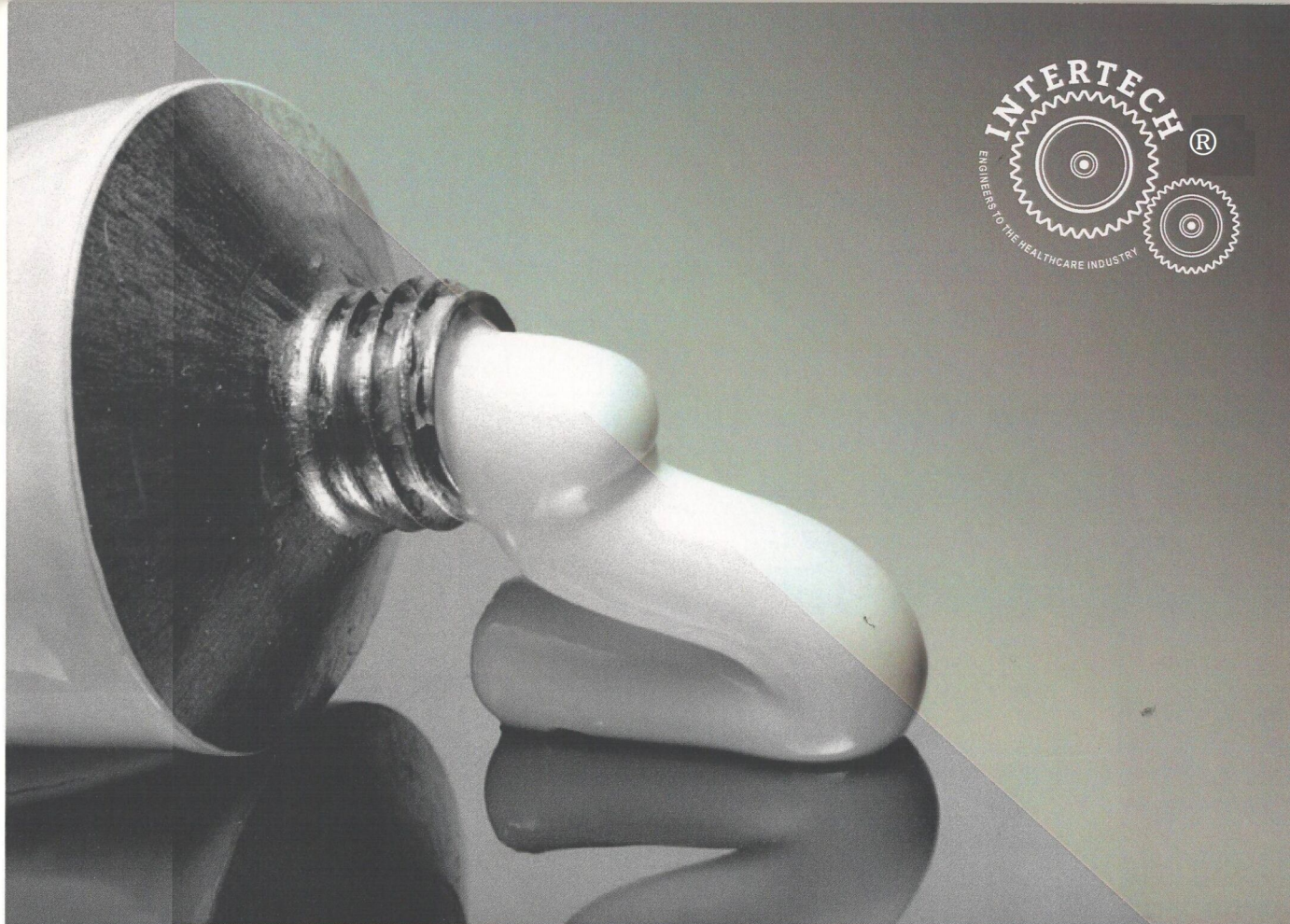
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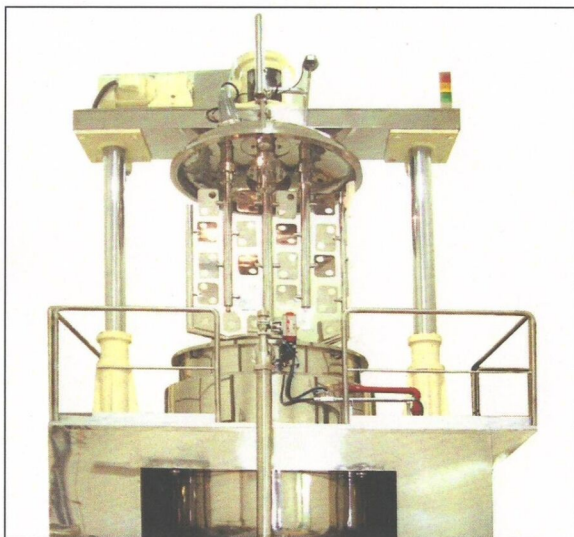
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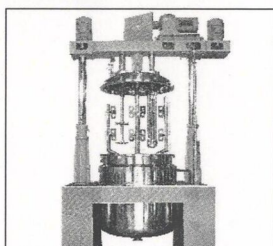
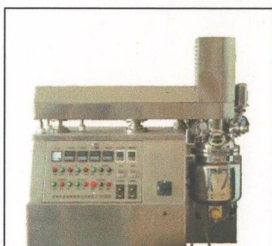
Ointment Cream / Paste Mixing Plant

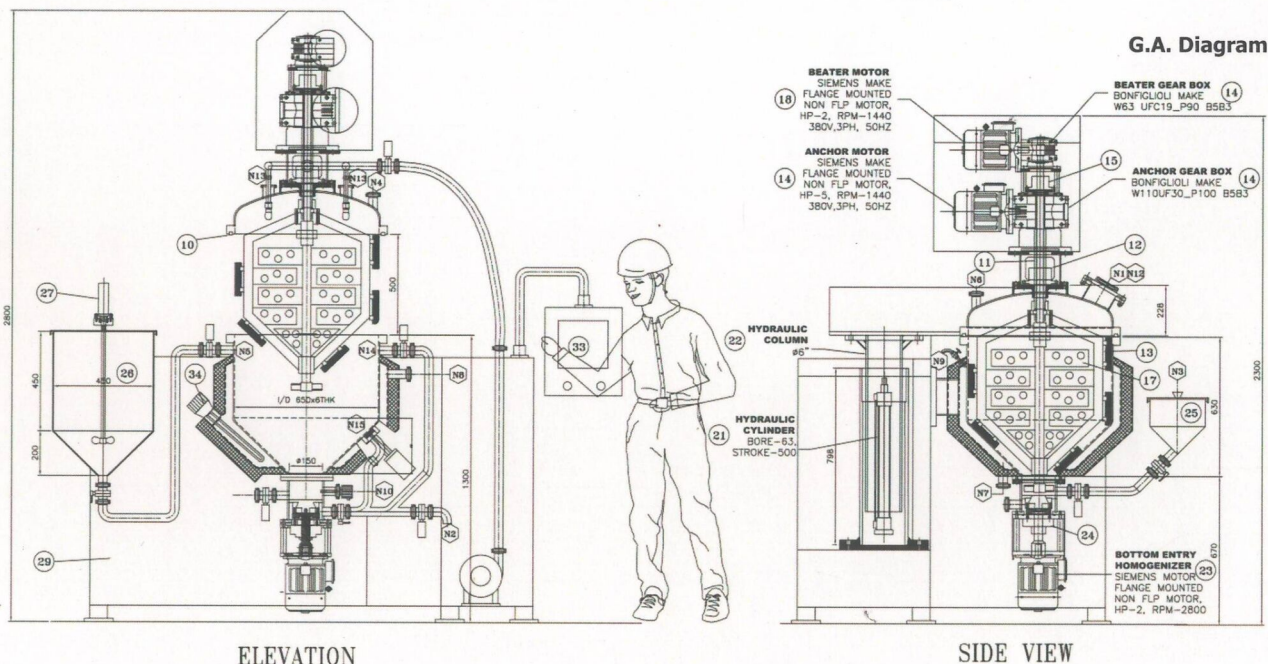


The Ointment Manufacturing Plants are ideal tools for the pharmaceutical industry for the production of Sterile & Tropical Ointments. Majority of Ointments are emulsion based & this emulsion is prepared using hot mix technology. Both Water & Oil/Wax are heated & separated in Pre-Mix Tanks & finally transferred into Main Batch Mixers where High Speed Emulsifier creates laminar thinning of material and forms emulsion. Broadly, end-product can be a blend of various ingredients including drugs in liquid form or dispersed phase of ingredients where drugs are added powder form. Therefore designing of entire Ointment plant is done to take care of its versatility for both Blend & Dispersed phase end product. Quality is also governed by level of automation & well GMP design of plant.

Ointment manufacturing systems comprises of equipment for automated water & wax transfer, double jacketed and non jacketed vessels for Heating & Cooling application, compounding / ingredient mixing and storage with product distribution piping. The range covers capacities from 25 Kg to 5000 Kg with various options in top and bottom entry agitators & homogenizers for mixing and homogenizing of ingredients.

We offer a range of precision engineered Sterilize Ointment manufacturing plant, which is completely compatible to CIP (Clean in Place) & SIP (Sterilization in Place). Advanced processing technology offers consistency high product quality, shorter batch cycles, minimal operating costs, low space requirement and simple operations.





Ointment Manufacturing Plant consist the following equipments and accessories:

- Water Phase Vessels
- Wax Phase Vessels
- Batch Manufacturing Vessels
- High speed Homogenizer & Emulsifier
- Transfer Pumps
- Storage Vessels
- Control Panel
- Product Piping
- Working Platform

Basic Design Features & Operation:

- Entire plant consists of a closed circuit manufacturing facility from feeding of Wax / Water Phase / Ingredients up to loading into Filling Machine.
- The water is metered & loaded using Flow Meter for precise feeding.
- Both Water & Wax Phase Vessels are jacketed for heating & equipped with suitable stirrer & disperser. The Main Batch Vessel is fitted with Slow Speed Main agitator for blending & distribution effect & also supported by additional high speed homogenizers.
- Heating & Cooling provision thru jacket is there. In typical process demand, online Homogenizer can also be provided for fine texture of end product. In main Batch Mixer, Mixing & other process are achieved using vacuum to avoid air entrapment. The Ointment prepared is transferred to Storage Vessel by transfer pump.
- Various type of Mixer are fabricated as per product used viz. Double Contra Rotary Mixer, Fixed Baffle Mixer etc.
- The entire plant can be operated by centralized operating panel by one operator.

Salient Features:

- The Plant is designed to be operated only by one operator and one helper to reduce cross contamination & higher automation.
- All material transfers are done by vacuum or by transfer pumps.
- All the vessels are cGMP (paint free construction) with gaskets used are of silicon (food grade).
- All contact parts are of S.S. 304 quality material (SS316 provided on demand) & finished to class 4B (Mirror) finish and are crevice free.
- The entry of stirrer & high speed emulsifier are from top. In-line Emulsifier (as per customer choice) provided in demand. (optional)
- All vessels are suitable for internal pressure of 1 Kg. / Sq. cm. and hence can be sterilized.
- All pipes, pipe fittings and valves are of SS304 / SS316 (as per customer requirement) seamless quality, internally electro polished, with tri-clover ended joints. Bottom Valves are zero dead pocket type with dead pocket type with pneumatic actuation also.
- The entire plant is equipped with CIP & SIP connections, so that customer can use these facilities, if they have CIP & SIP equipment.
- All values of temperature & time of the plant are indicated digitally on the control panel. Ampere indicates on Ampere meters.
- A micro processor based automatic operating plant can be designed as per requirement (optional).
- All the inlet & outlet connections are provided with tri-clover joints, which are very easy for cleaning & replacement.
- Refractro meter, Temp. Sensor, Level sensor, Conductivity sensor, PH sensor are provided for higher standardization of processing module.
- Load cell duties calibrated with PLC interfacing are provided for accurate results & closed adherence to batching system.



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ENGINEERS TO THE HEALTHCARE INDUSTRY



Ointment/Cream/Paste Mixing Plant



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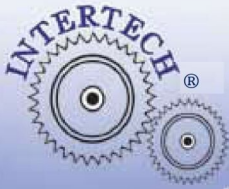
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- OINTMENT BATCH MIXING VESSEL
- OINTMENT TRANSFER PUMPS

CREAM/PASTE & OINTMENT PROCESSING

- HIGH SPEED HOMOGENIZER & DISPERSER
- VARIOUS TYPES OF AGITATORS & STIRRERS
- PILOT & LABORATORY SCALE BATCH MIXER

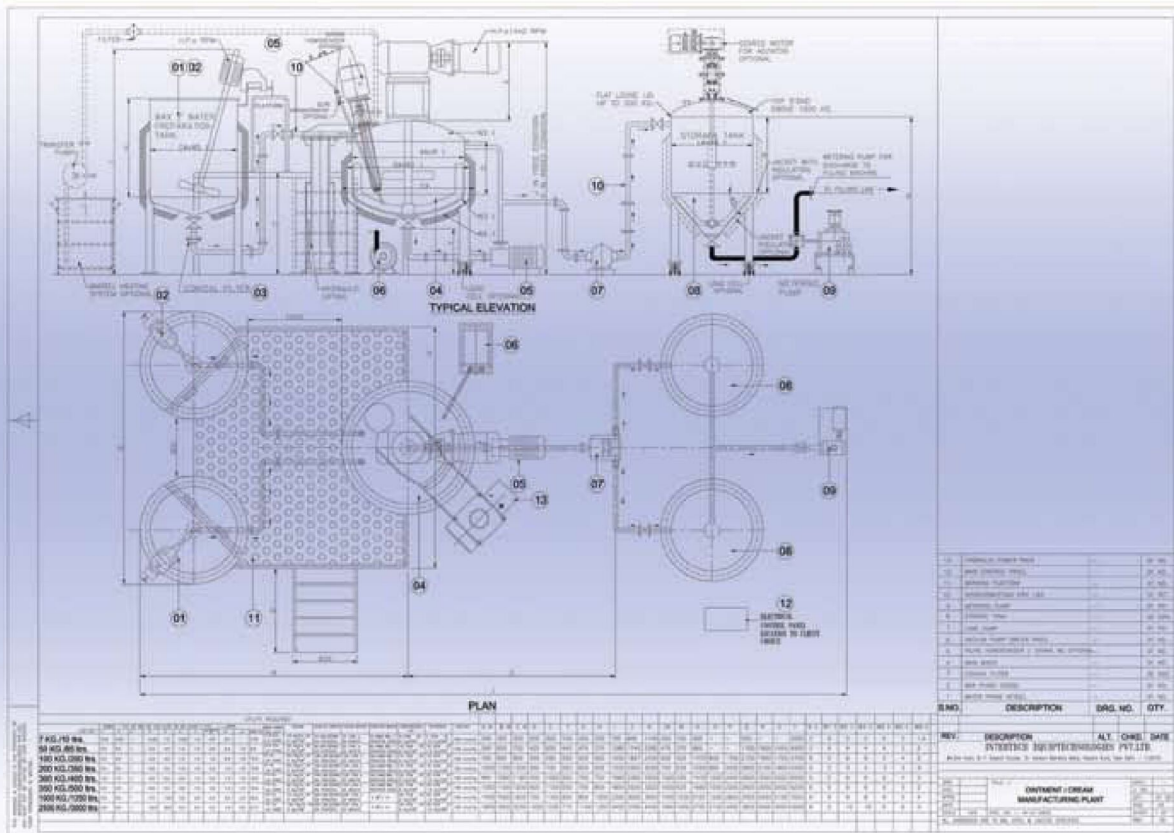
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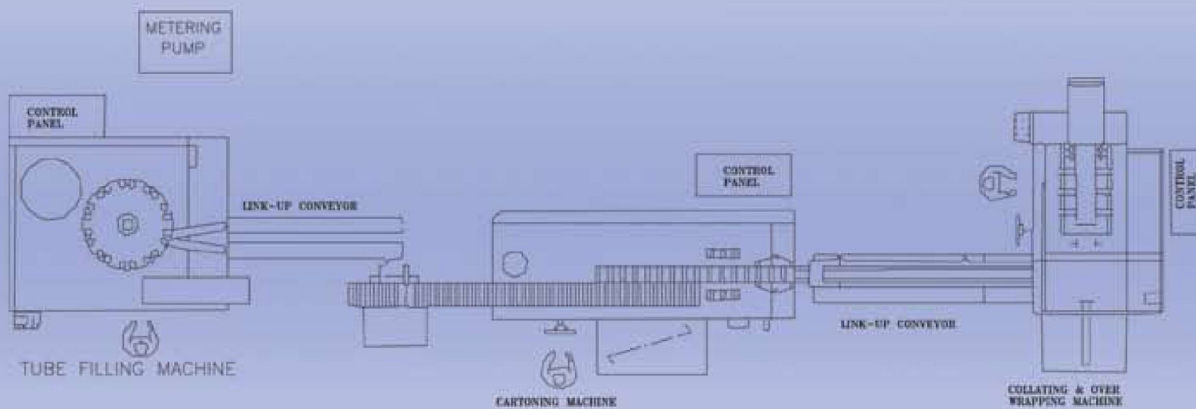
- ALUMINUM TUBE FILLING & CLOSING MACHINE
- LAMINATED PLASTIC TUBE FILLING & SEALING MACHINE
- JAR/CONTAINER FILLING MACHINE
- CARTONING MACHINE
- DOUBLE COLOR CREAM FILLER & SEALER INTO TUBE
- COLLATING & OVER-WRAPPING MACHINE

OINTMENT FILLING & PACKING

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INTERTECH TECHNOLOGIES PVT. LTD.

ENGINEERS TO THE HEALTHCARE INDUSTRY

Laminated plastic tube filling & sealing machine as well Aluminum Collapsible Tube Filling & Crimping Machine in single head version is capable of filling & sealing of tubes in fully automate manner. Essential automatic configurations, which include a tube storage cassette box, tube loading; orientation, positive fill and closure stations are included in the basic supply. Minimal maintenance interventions, and accommodating in lesser space with a thorough output up to 4,500-7200 tubes per hour, are some of the main features. This machine complies with but also exceeds GMP standard
BASIC MACHINE is supplied complete with the following:

- Mechanically driven machine, built on Angles & Mounting plates in M.S. duly powder coated & cladded. All brackets in M.S. OHNS duly ENP plated. Turret is made of LM-04 powder coated (aluminum casting) All cams and levers in C.I casting. Contact parts with the Creams are of S.S.316 material. General parts & covers are ENP - weed blasted, powder coated or blackdized to avoid rust. S.S Covers guard all parts below main functioning area. The above/ below portions of the machine general parts are ENP or Anodized, therefore this machine is durable, rustproof and easy for cleaning.
- Tube holder set, for any One-tube size. Holders are designed as per sample, tube size, material and cap design.
- Suitable capacity single wall stainless steel hopper made of S.S.316 material.
- Cassette type feed device for automatically feeding empty tubes into the in-feed device, consisting of cassette - magazine fitted on the machine. Empty tubes, comes down from the cassette on a slider plate. The tilter holds the tube by vacuum, loads it & lodge it into the tube holders with a centering / pressing cone.
- Photo-electric tube print registration unit, which ensure correct positioning of the tube 'T' mark prior to Crimping / Sealing
- The No tube - No fill device. Prevents the dosing action if tube is not present
- Cream dosing Pump head. A piston-dosing pump, consisting of Teflon piston placed in S.S. cylinder carries out the dosing. One set of piston and cylinder can fill the following range. 3 - 12 cc. / 12 - 30 cc. / 30 - 100cc (Depending on material characteristic). Filling volume adjustment is done using touch screen PLC by Servo driven motor mechanism.
- Filling nozzle consisting of a Positive cut off system, helps eliminates product dripping / stringing, and maintains filling accuracy. (All contact parts are in food-graded material)
- Hot Air blowing station for melting Plastic-Laminated tubes. Hot Air is blown through a hot-air tool, on to the sealing area of the tube. When the tube is lifted for heating, a cooling block (Chilled water is circulated through it) to have a dent free seal. In case of Aluminum Tube Filler, Pneumatic crimping is done on these stations.
- Tube Sealing and coding unit, which seals the heated part of the tube and then codes on the seal with metal female type stereotypes.
- Trimming unit, to trim the end portion of the tube, and to maintain tube length.
- S.S covers guard all parts below main functioning area of the machine
- Electrical system consists of a trouble-free electrical panel, along with operating panel board.
- Drive unit consist of 1 HP, 40 RPM 3-phase geared-motor fitted with sprocket for a fix speed. The drive is conveyed to the various functions with a mechanical Geneva Cam Indexer.
- Automatic discharge of tube. (Tail first)
- Machine is provided with all safety interlocks i.e. Air pressure, Guard interlocks, temp. setting using soft PLC.

OPTIONALS

- Electrically heated thermostat jacketed hopper for hot fill (in lieu of single wall hopper)
- Agitator driven by a ½ HP, 20 RPM, 3 phase vertical geared otor.
- Agitator blades & contact parts in S.S.316L, along with mounting, switches & temperature indicators
- A.C. Drive regulates the speed of the machine. Load on any of the stations triggers the A.C. drive to stop the motor.
- Curve / Wave & Half moon type sealing pattern are also available
- Low viscosity type product filling thru volumetric syringe is also available
- Modular aluminum frames fitted with acrylic guard. Each door is fitted with an interlocking doors switch, which ensure that the machine does not start if any of the guards are open

Corporate Office :
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INTERTECH TECHNOLOGIES PVT. LTD.

ENGINEERS TO THE HEALTHCARE INDUSTRY



Automatic Tube Filling & Closing Machine





INTERTECH TECHNOLOGIES PVT. LTD.

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This machine is suitable for packing Tubes into cartons. It performs automatic fish folding, forming, opening & loading, batch numbers printing as well as tucking process. It adopts PLC Control, photoelectric supervision control for every parts. It has got inbuilt fault detection feature. This machine can be integrated with upstream filling & capping machine.

OPTIONALS:

- Feeding of leaflets or booklets
- All controls for automatic running
- Variable data (embossing, ink jet, laser, hot foil coding)
- Barcode reading of cartons and leaflets
- Automatic feeding system for a wide range of pharmaceutical products temp. setting using soft PLC.

Machine Speed	Carton/ min	Up to 120/min
Cartons	Min (LxBxH) Min Max (LxBxH) Max Carton quality	65x20x20 155x60x60 250-350gm/m3
Leaflets	Unfolded (mm) Folded (mm) paper quality (g/cm ²)	(80-300)mm x (70-220)mm (20-40)mm x (70-220)mm 40-70g/m3
Utilities	Connected Load (KW) Average Power (KW) Air consumption (m ³ /h) Air pressure (kg/m ²)	2.0 2.5 6.8 5-8
Floor Space	A Width (mm) B Height (mm) H Length (mm)	900 1900 2100
Net weight	(Kg)	1400

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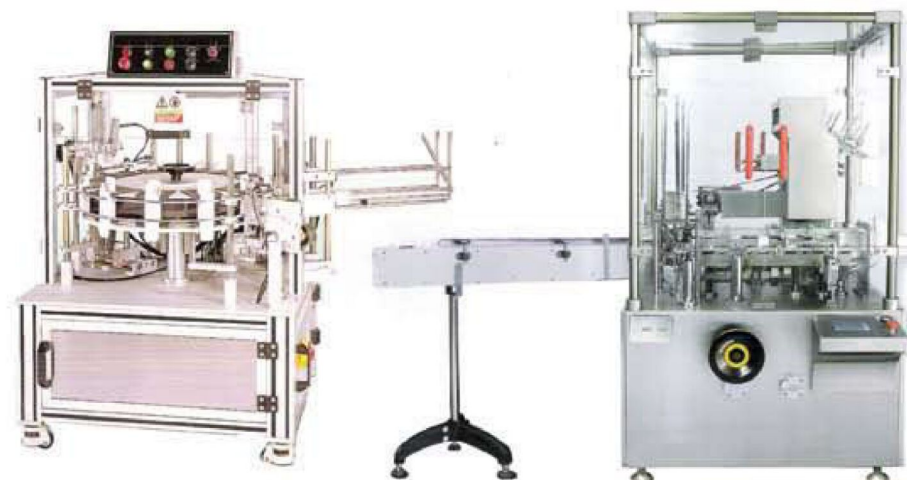
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ENGINEERS TO THE HEALTHCARE INDUSTRY

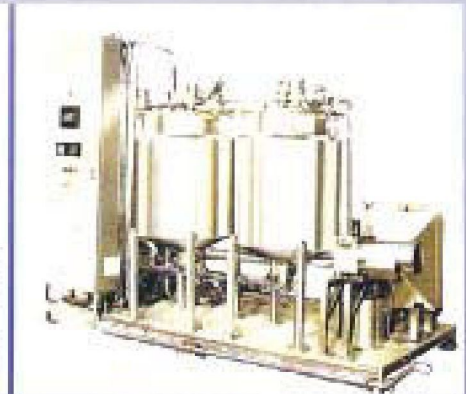
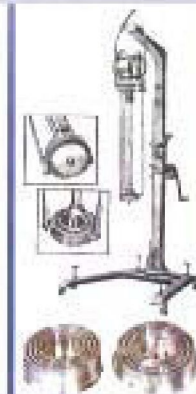
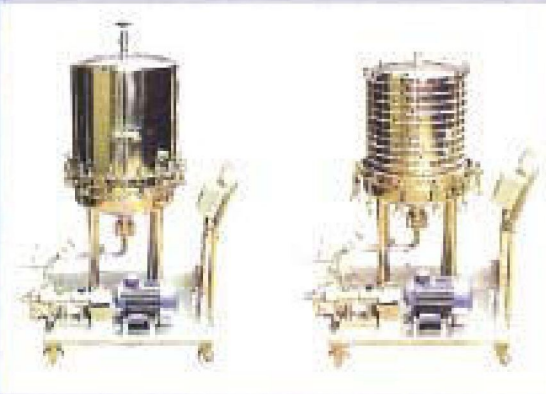


Automatic Carton Closing Machine





INTERTECH TECHNOLOGIES PVT. LTD.



WE DEAL IN...

- ▶ SUAGR SYRUP PREPARATION CUM BATCH MIXING VESSELS
- ▶ COARSE & FINE FILTRATION SYSTEM FOR SYRUP
- ▶ ONLINE DISPERSOR & HOMOGENIZER FOR SUSPENSION & ANTACID

- ▶ VACUUM CONVEYING OF SUGAR
- ▶ AUTOAMTED CIP (CLEAN IN PLACE) SYSTEM
- ▶ SYRUP TRANSFER PUMPS

LIQUID SYRUP MANUFACTURING

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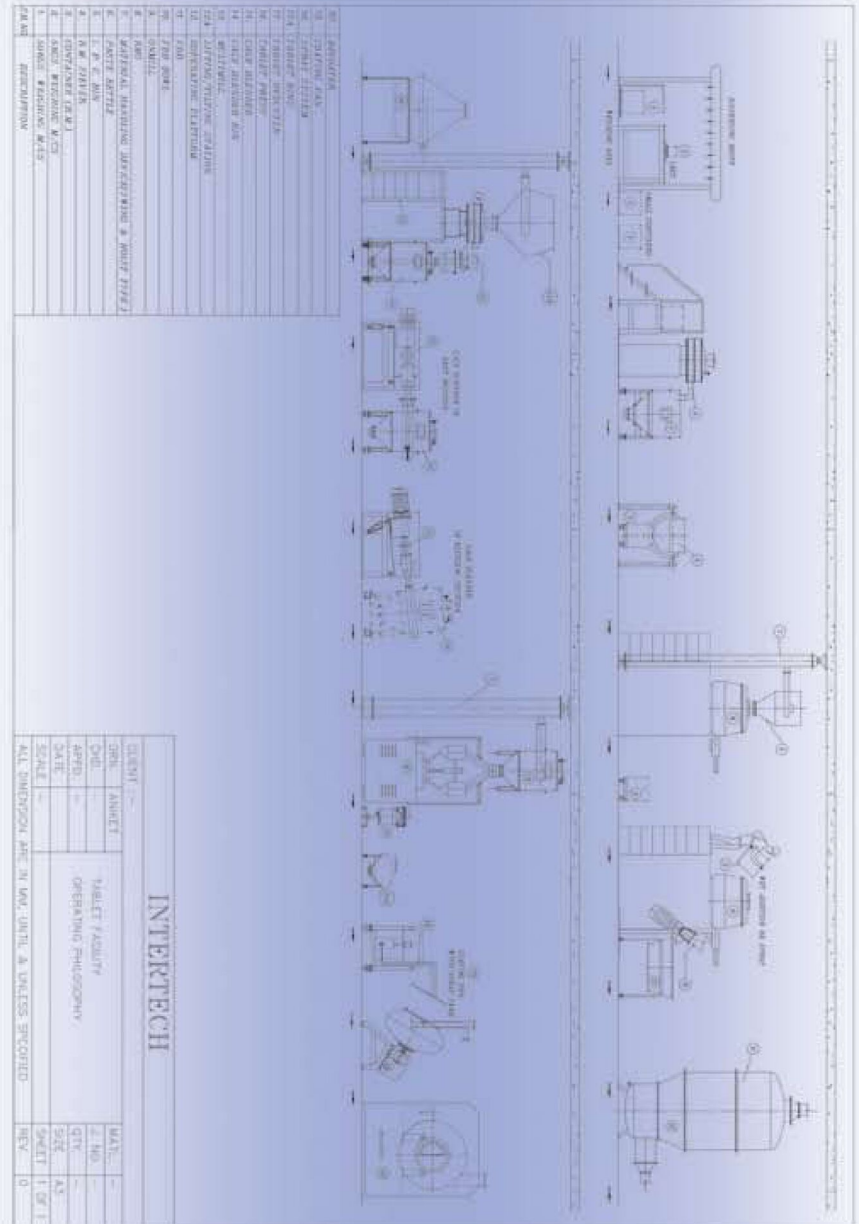
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