



KAMAL INDUSTRIES



CAPSULE SECTION



TABLET SECTION LIQUID SECTION



ORIMENT SECTION



FABRICATED ITEMS




KAMAL INDUSTRIES

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Processing & Packaging Equipment
for

The Pharmaceutical Industry

The Foods & Beverage Industry

The Chemical Industry

The Cosmetic & Toiletries Industry

CAPSULE SECTION

CAPSULE FILLING MACHINE:

It is a manually operated machine for filling of hard dry gelatine capsules. It is supplied with a filling unit & stainless steel loading trays for a specific size of capsules. Change parts for other sizes need to be ordered separately. The unit is provided with an stainless steel hopper, PTFE powder spreader and a cleaning brush. 2 models are available in both Standard and cGMP versions - the CFS100 & the CFS300 used for filling 100 & 300 capsules per operation respectively.



AUTOMATIC CAPSULE LOADING MACHINE:

Sturdy, compact in design & simple to operate the CLA 300 is used to load empty hard gelatine capsules automatically in the CFS300 capsule filling machine tray in a cap-up and body down position. It is provided with an auto power shut off mechanism when the tray is loaded. Drive is 1/4 Hp 3 phase 1400 RPM electric motor. The machine is supplied with all attachments to load one specific size of capsules. Change parts for loading any other sizes of capsules need to be ordered separately.



DOUBLE CONE BLENDER (CONICAL MIXER):

It is used for thorough mixing of dry powders. The unit consists of two S.S. cones welded with a cylindrical shell having charging and discharging ports at opposite ends. The blender is mounted through a centre shaft on a channel stand provided with Plummer blocks for easy movement and is driven by means of an electric motor & reduction gearbox. To facilitate precise movement of the cone while charging and discharging larger units, special inching arrangement is provided with larger units. Motors used are 3 Phase.



OCTAGONAL BLENDER:

Consists of a polygon shaped blender having a diagonal baffle to disperse the powder. Both charging and discharge are at one end. The container is mounted on a channel stand and driven by electric motor & reduction gearbox through a centre shaft. The machine is provided with a safety guard and electric accessories.



SEMI AUTOMATIC DISC TYPE COUNTING & FILLING MACHINE:

This model equipped with highly sophisticated technology and superior production techniques in order to get greater and faster productions in counting and filling of capsules/tablets. Up to 100 bottles per minute can be filled and further depending upon the number of capsules to be counted per fill.



KEI AUTOMATIC CAPSULE INSPECTION CUM POLISHING MACHINE:

This machine does both inspection and polishing in 2 stages. The machine is provided with an SS hopper, a 230 v single phase vibrator fitted below the SS hopper, an SS powder collection tray, Teflon inspection belt fitted with a 1/2 hp motor and provided with a light for inspection of capsules. The polishing section is provided with a 1 hp motor and has variable speed nylon brushes with polishing cloths to ensure that the capsule are thoroughly polished & glossy.



CAPSULE COUNTING DEVICE:

Used for the counting of filled capsules, the device is a shovel type and can be fabricated from either Stainless steel or Aluminum duly anodized. The counter is made for a specific size of capsules and as per the number of capsules that have to be filled in the container. Size of capsules & number to be counted per operation to be specified with order.



DEHUMIDIFIER; REFRIGERATION TYPE:

Used for ensuring that the capsules in the section do not get affected by the humidity in the atmosphere, the machine consists of a Kirloskar/Shriram Hermetic Compressor suitable to operate on 230 Volts single phase power supply, with R.H. 40% +/- 5%. Available in both Vertical and Horizontal Models with closed water tank fitted on a portable trolley.



LIQUID SECTION



STAINLESS STEEL CYLINDRICAL TANKS:

Fabricated from 304/316 quality s.s. Buffed and polished to mirror finish both inside and outside. Supplied complete with lid, outlet valve, legs fitted with castor wheels. Supplied with or without jacket. Available with flat, conical, hemispherical or dished bottom

INDUSTRIAL STIRRER:

suitable to mix syrups & liquids. The stirring shaft & propellor are made from 304 quality s.s. The shaft is directly attached to the motor. The unit can be supplied with a clamping arrangement so that the stirrer can be fitted directly onto the tank. Standard units are provided with an adjustable tubular stand. High or Slow speed stirrers are custom made. Motors used in standard stirrers are 3 Ph 1440 rpm.

HOMOGENIZER/EMULSIFIER:

Used for making suspension, emulsions etc. The homogenizing head consists of stator and rotor arrangement made out of s.s. The stator is supported on the motor by means of s.s. supporting rods and the rotor is driven directly by the motor. The unit is supplied with self supported channel stand with a rope arrangement for raising and lowering homogenizer. Motors used are 3phase 1440 RPM.



COLLOIDAL MILL:

Used for micronization while making suspension, emulsions etc. The homogenizing head consists of stator and rotor arrangement made out of s.s. The stator is encased with the rotor in a pump type housing and belt driven through a pulley system by an Electric motor. All contact parts are made of 304/316 quality s.s.



ZERO HOLD HORIZONTAL PLATE TYPE STAINLESS STEEL FILTER PRESS:

Unit supplied complete with suitable stainless steel pump, driven by a motor (3 ph AC 440 V.) The unit is mounted on a trolley having a stainless steel top and is also provided with stainless steel interconnecting pipes with ball valves so that the same can also be used as a transfer pump. Standard units also available



The unit is designed to fill a variety of free flowing liquid products. For precise filling control, the ss syringes provided with the machine can be adjusted manually. The drive mechanism consisting of an AC 3ph electric motor & suitable gearbox, is enclosed in an ss clad angle frame. All contact parts of the machine are fabricated from s.s.304 or 316. Machines are available in models having 1, 2, 4 & 6 filling syringes. Separate syringes are available. Output of machine varies according to the product to be filled, container shape and neck size and machine capacity.



P.P/ROPP/VIAL/SALINE BOTTLE SEALING/CAPPING MACHINES:

A variety of sealing machine e ranging from a Laboratory plier type crimping to the commercial model upgradeable to the automatic line. The most popular machine uses an easy to



adjust 2 Roller System for threading and sealing the bottle cap. The sealing head is driven by means of a 0.25HP single phase 1440RPM motor through a pulley system. Adjustable oil hardened steel rollers ensure that the bottle cap is not damaged or cut during the operation.

The machine is also available with the following options

- Hand operated model eliminating the motor for rural industries.
- Hand lever table top model for vial seals for laboratory purposes.
- Foot Operated Machine which is the most popular unit
- Dual motor operated model eliminates the need for foot operation.



LABEL GUMMING MACHINE:

Used for the application of adhesive onto the label prior to sticking it onto the container. Available in both manual and motorised versions in 3 sizes of machines having 6" ; 8" & 12" rollers respectively. The drive in the motorized models is 1/8HP Single Phase 220V.



BATCH PRINTING MACHINE:

Works on the same principal of treadle machines conventionally used by all the printers. In the machine the matter to be printed is composed in a galley block with the types set provided with the machine. With each movement of the arm of the machine, these composed type letters get inked by a moving Rubber Roller and print a positive impression on the Label/Carton/Bag which are kept on the feeder plate. The unit is available in Manual and Motorized models Unit supplied complete with types, ink, etc.



STERILE FILTRATION EQUIPMENT ASSEMBLY:

Consisting of PRESSURE VESSEL, STERILE FILLING VESSEL, MEMBRANE FILTER HOLDER AND PRESSURE REGULATOR. Vessels available from 1 liter to 250 liters. Membrane filter holders available in 90mm; 142mm & 293mm.



OINTMENT SECTION

THE OINTMENT PLANT:



is an Ointment / Cream /Gel manufacturing unit provided with sophisticated process controls and instrumentation's required for process completion. Consists of a Wax phase vessel for melting of Wax & Oil base. It also has a Water Phase vessel for aqueous phase material processing and a main Manufacturing mixing vessel with bottom entry agitators for the thorough homogeneous mixing of wax phase & water phase material using a specially designed anchor. The vessel has an option of having charging hopper to charge active ingredients. The plant is also provided with an inline high speed emulsifier for proper emulsification and particle micronization and also has a vacuum transfer pump for the transfer of water & wax phases into the main mixing Vessel. Optional accessories include transfer pumps for transferring finished product, batch storage vessels with or without jacket, transfer pumps for transfer of product to filling station etc. The entire unit is fabricated on a anti skid working platform



JACKETED PLANETARY MIXER:

Suitable for mechanical mixing of Dry Powders or Wet Mass, etc. The unit is provided with a s.s. mixing stirrer / beater. The stirrer shaft moves on it's axis while simultaneously rotating around the bowl, thereby giving efficient mixing. The bowl is provided with castor wheels for easy handling. The unit is supplied with all contact parts of stainless steel and is driven by means of suitable 3-phase A.C. electric motor through an oilfilled gear box. The unit is easily cleanable. The bowl is jacketted with S.S.Plate and provided with electric heating arrangement with thermostatic control. Models are also available with vacuum.



TRIPLE ROLLER MILL:

is used for micronization of the product and ensuring uniformity in particle size for the cream or ointment. The machine consists of 3 S.S. 304 quality adjustable rollers moving in a contra movement. Unit fitted with Stainless Steel charging hopper and discharge tray, electric motor, chain driven oil immersed gear box heavy duty. The machine is made with S.S. Construction and all contact parts are of stainless steel. Available in both Standard and GMP models.



TUBE FILLING & CRIMPING MACHINE:

Single head eight station rotary tube filling and crimping machine along with 25 lit capacity S.S. plain hopper, S. S. Filling syringe, pump with a capacity from 5 gms to 30 gms. , no tube no fill device, 0-9 nos. batch coding set, one set aluminum socket (8 nos.) for the tubes of required size, automatic ejection of filled tubes, 30:1 gear box, 1 HP 3 phase motor 1440 rpm with electrical panel box. All sides covered with S.S. 304



PASTE FILLING MACHINE:

is suitable for filling of free flowing semi solid products which are in a paste, gel, or thick liquid form like ointments, balms, creams, pastes, petroleum jelly, grease, inks, adhesives, paints, lotions, chuna, gutka, jams, jelly, sauces, ghee, dalda, toothpaste, etc in tubes, bottles, cans, jars etc. The unit is supplied complete with hopper, filling cylinder & standard nozzle for tube filling. In the motorised models the drive is by Electric motor through reduction gearbox. All contact parts are fabricated from stainless steel. Vertical filling attachment for jars & bottles is supplied as an optional accessory. The machine is available in motorised & manual versions with either hand & foot operated options having fill ranges of 25gms, 90gms, 250gms, 500gms & 1 Kg.



TUBE CRIMPING MACHINE:

The unit is suitable for closing & embossing the ends of the tubes while also marking the batch nos. manufacturing code, etc, on the tubes. The units comes with heavy base, lifting spring etc.



JACKETED OINTMENT MIXER:

Fabricated from ss304/316, the unit is provided with a tilting type hemispherical kettle and a Rotary Anchor shaped beater. The standard unit is provided with a manual mechanical system for lifting the mixing head and has an option of hydraulic lifting. All contact parts are of ss 304/316.

TABLET SECTION



MULTI-MILL:

The multi-mill is useful for various purposes like granulation shredding, pulverisation etc. The unit consists of a vertically mounted 3 H.P. Motor which drives the rotor shaft through bearing housing. The rotor has 12 swinging type knife blades and 2 scrapper blades. A screen of suitable mesh is mounted outside the rotor & material to be granulated is fed from a s.s.hopper. All contacts parts are made out of 304 s.s. The unit is mounted on a suitable stand and is provided with DOL starter with reversible switch and one no.s.s. screen.



VIBRO SIFTER:

The unit is ideal for gradation & separation of dry powder, granules and semi solids. The machine is available in models of 20", 30", 36", & 48". The modular design of decks with easily fitted clamps is suitable for the widest range of materials. The design is such that there is less power consumption, variable flow pattern with dust free arrangement and lead free sieves. The unit can be easy dismantled for cleaning. The output is 80 to 200 kgs/hr depend upon characteristic of material and the material of construction is s.s. 304/ 316/ 316l



POWDER & MASS MIXER:

Suitable for mixing of dry & wet material. All contact parts are fabricated from 304 quality stainless steel. The trough ends through which the main shaft rotates, are fitted with two mechanical seals to prevent outside lubricants from entering into the mixing chamber. Paddles, 3" broad are arranged on the shaft to give thoroughly uniform mixing. Among the other provisions are a tilting arrangement, reversible switch and safety lock-



HORIZONTAL GRANULATOR (OSCILLATING):

The unit is used for dry granulations. Contact parts are made out of stainless steel. The unit is driven by means of a Motor through a gearbox & is supplied complete with one No. S.S.sieve, which can be changed by means of quick opening and locking arrangement provided. Depending on the moisture content, the capacity of the machine is approximately 200 kilograms per hour for dry granules & 30-50 kilograms per hour for wet granules for the 2 H.P Drive



WET GRINDER:

The machine is used mainly in the Ayurveda system for a wide variety of wet grinding applications and for pulping herbs, leaves, vegetables etc for making semisolid products yielding pastes that form the base for a variety of products. The grinder stone is made of special hard export quality stone that ensures no chipping or powdering during wet grinding applications giving a longer component life. All stainless steel components used in the grinder are made of ss 304/316 quality. The rotation of the grinder stone is optimized to avoid overheating in an effort to retain the micro-nutrients in the paste. The roller stone further crushes, mixes, pounds and grinds simultaneously, so that the material is ground to exact proportions and is thoroughly mixed.



RAPID MIXER GRANULATOR:

Is used for dry blending, wet mixing, preparation of dough and granulation. It works on the basic principle of agitation of the product in the bowl at moderate speed and operating a special designed cutter blade at high speeds into the wet mass, thus enabling homogenous mixing of dry & wet powders, de-agglomeration of wet mass and fast dispersion of the binding agent. The operation is dust free with a high uniformity of granule size. The unit uses a bottom entry agitator and side mounted

switch to stop the machine as soon as the cover is opened. The drive is through a 3 ph electric A/C motor and a suitable gear box.



FLUID BED DRYER :

Fluid Bed Dryers (FBD) are to dry materials by fluidization with hot dehumidified air creating a turbulence in the moist product Atmospheric air is sucked in the dryer through 5/10 micron filter by an efficient dynamically balanced fan driven by an electric motor. The clean air then passes over the heaters / radiator The hot air passes through the product and fluidization dries the product. The blower speed is controlled by AC frequency drive so as to control the fluidization and avoiding choking of the filter bag. A raking system is provided to avoid lump formation and achieve uniform fluidization drying.



TABLETING MACHINE:

The model is a single stroke multi punch industrial output model. The machine has a heavy duty cast iron frame and is driven by means of a 1HP 3phase motor. The machine is provided with a ss hopper. The m/c can accommodate a maximum tablet diameter of 2" and therefore the number of punches depend on size & shape of the tablet. After they are pressed, the tablets are discharged from the die by means of a horse shoe provided which also acts as the inlet for the material of the tablet to be punched. Maximum Pressure 1½ Ton Pressure of the machine can be adjusted by means of a lever provided. The machine is supplied without dies and punches.



STAINLESS STEEL COATING PAN:

The unit is fabricated from stainless steel & fitted on a drive arrangement having a suitable oil filed worm gear box and motor. The unit is also equipped with a suitable hot air blower with thermostatic control. Optional accessories available are a) tilting arrangement. b) spray nozzle c) hood with exhaust POLISHING PAN Fabricated from S.S. & lined inside with canvas, can be fitted on the drive arrangement of coating pan.

FABRICATED ITEMS



SS CONTAINER:

Fabricated from ss 304 or 316 and available from capacities of 1litre onwards. Can be used for autoclaving and in sterile areas



SS FUNNELS:

Fabricated from ss 304 or 316 and can be made as per order from diameters of 3" onwards



SS JAR:

Fabricated from ss 304 or 316 and available from capacities of 0.250 litre onwards.



SS POWDER CONTAINER:

Fabricated from ss 304 or 316 and available from capacities of 1litre onwards.



SS SCOOPS:

Fabricated from ss 304 or 316 and available from capacities of 0.250 Kg onwards. Available in open, half open and closed type.



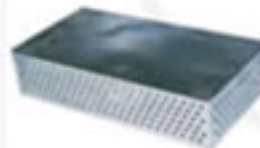
SS SPOONS, LADLES:

Fabricated from ss 304 or 316 and available with handle lengths of 3" onwards.



SS LIQUID AND POWDER SAMPLERS:

Fabricated from ss 304 or 316 available in various lengths. Powder samplers available for bags or drums. Liquid samplers available with handle lengths from 6" onwards.



SS AMPOULE AND VIAL BOXES:

Fabricated from ss 304 or 316 and available in various sizes with or without lids. Can be used for autoclaving and in sterile areas



SS STATIC PASS BOXES:

Fabricated from ss 304 or 316 available in various sizes as per requirement useful in clean rooms and sterile areas.



SS DYNAMIC PASS BOXES:

Fabricated from ss 304 or 316 with double walled construction and doors fitted with double walled flush glass view panels having mechanical interlocking. Door release switches on either side. Provided with HEPA filter & blower, U V Light & Hour Meter. Can be used in clean rooms and sterile areas. The pass box available in various sizes as per requirement



SS TROLLEYS:

Fabricated from ss 304 or 316 available in various sizes as per requirement.



WORK TABLES AND BENCHES:

Fabricated from ss 304 or 316 available in various sizes as per requirement.



INTERMEDIATE POWDER CONTAINERS:

dedicated to the specific needs of the pharmaceutical industry a complete range of individually designed IPC are available upto 3,000 liter capacity Custom-designed for specific customer needs and provided with charging & discharging valves in a variety of sizes & styles. The containers meet all GMP requirements and are designed for handling by manual or motorized pallet trucks or forklift



PACKING CONVEYOR:

Frame made out of strong S.S.pipe. The width of the table is 33" leaving 12" working space on either side and has a Belt width of 9". Driven by means of a TEFC 3ph motor through a reduction gear box, with tension idler, roller etc. Available in lengths of 10 ft/16 ft/ 30 ft



TURN TABLE (GMP Model SS 304):

The table is completely covered with s.s Sheet as per GMP requirement. The platform is made from steel plate clad with SS sheet and is provided with guard and guide rail to direct the bottles/containers. The turn table is provided with 415V,3PH suitable motor and gear box. Available in three diameters of 24"; 36" and 48"