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Automatic Soft Drink Bottling Plant for Pet Bottle Capacity 30-36 BPM of 500 ML

1) Equipments for Beverage Processing :-

➤ Steam Jacketed Tank with Agitator, Cap 500 Liter :-

It is meant for making Sugar syrup. It is a double jacketed tank made of AISI 304 grade Stainless Steel sheets of 4 mm and 3mm thickness. The tank is insulated by glasswool and clad with 14 gauge Stain less steel sheet of AISI 304 grade. The Tank is provided with Inlet at top and outlet valve with manhole also at the top of it. The inner tank is duly finished by buffing. The 2 H.P Gear Box and Motor are fitted on the top of tank for mixing.

➤ Sugar Dumping Tank 1000 Liter :-

It is used to dump the sugar syrup after the preparation of syrup in steam jacketed tank. It is insulated tank .

➤ Flavour Mixing Tank :-

It is meant for making of beverages in soft drink Plant. An agitator is fitted inside the tank for the purpose of mixing required Flavour / Concentrate suitable for corresponding Beverage to be made. The tank is made of 2.0mm thick Stainless Steel sheet of AISI – 304 grade. The top of the tank is conical type and bottom of the tank is conical type. Complete tank is welded by argon arc process, duly buffed and polished from inside and outside and stands on 4 nos. of legs. A manhole at top of the tank and a agitator with SS propeller, Outlet valve with unions, are provided with the tank. Agitator operated with a gearbox and electric motor are fitted at the top of the tank to agitate the beverage inside the tank. SS shaft, Baffles and Blades are of AISI–304 grade Stain-less-Steel.

➤ Main Features :-

- ❖ MOC: AISI –304 grade Stain-less-Steel
- ❖ Gauge of Sheet of the tank – 2.0 mm thick.
- ❖ Gear Box – Bonvario make.
- ❖ Electric Motor – 1 HP 3 phase – 240 to 415 V Ac, 50 Hz Siemens/Crompton make.
- ❖ Capacity of the tank – 2000 Liter.

➤ Sparkler Filter Press :-

Required to filter the sugar syrup. It is vertical type, SS round plates fitted with SS sieve use to filter syrup with the help of filter media. A centrifugal pump feed the syrup through pipeline fittings in the machine. All parts are made of AISI –304 grade Stainless Steel and frame of the machine made of MS clad with SS sheet.

Size of plates : 15" X 10 Plates
Suction and delivery : 1.5" pipeline
Capacity : 1500 liter/hr



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➤ Chiller with PHE :-

It is used to cool/chill the beverage for mixing Co2 in beverage. A SS tank duly insulated provided with the machine. Cooling by ammonia reciprocating compressor.

Evaporation Temperature – 2 degree C
Condensing Temperature – 35 degree C
Refrigerant – Ammonia
Compressor Motor – 20 HP 3 phase Crompton/Kirloskar
Condenser – Shell and Tube type
Water Pump – Mono block 25 MWC
System Capacity – 15 TR/HR
Capacity: 1500 ltr/hr

➤ Carbonator :-

It is used for doing beverage dilution and mixing Co2. Nos. SS tanks each for ready beverage, carbonated beverage. A high pressure pump provided for mixing beverage and co2 mixing. All valves, Co2 pressure gauge and pipeline fittings are provided with the machine. Capacity: 1500 ltr/hr

➤ Transfer Pumps Cap. 2500 liter/hr :-

The pump is used to transfer the water through SS pipe-line fitting from one machine to another for processing and filling. It is a centrifugal type of Transfer pump, made of AISI – 304 grade Stain-less-Steel. It is Mono-block pump.
Suction & Delivery – 1½" X 1½".
Capacity – 2500 ltr.
Power required: 1.5 H.P. 3 phase, 2800 RPM
Quantity – 3 Nos.

➤ Pipeline Fitting (Accessories) Complete :-

It is including with SS Pipelines of 1½", 2 way Ball valves, Butterfly valves, unions, Bends, Tee etc.

2) Equipments For Bottling & Packaging:

Rinser Filler & Capper - (9x9x4)

➤ Bottle Rinser 9 Grippers :-

This type of rotary rinser is used to wash the pet bottles automatically by rinsing water through jets. The bottles are coming through in-feed conveyor and gripped by grippers from neck of the bottles turn the mouth of the bottles down on rinsing jets for washing automatically. After the process of washing the machine kept bottle return on the out-feed conveyor as earlier position of upside mouth. After that bottles are goes to filler for filling. The numbers of jets/grippers fitted are according to the required capacity of washing bottles per hour. The complete machine is made of AISI – 304 grade Stain-less-Steel. The machine is driven and controlled by electric panel board.



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➤ Main Features :-

- ❖ Type of Rinser – Automatic – Neck Handling Type.
- ❖ Suitable to wash – Pet bottles – Rinsing by Water.
- ❖ Number of Grippers – 9 Nos.
- ❖ M.O.C. – AISI - 304 Grade Stain-less-Steel.
- ❖ Gear Box – Bonvario Make.
- ❖ Controlled by – Electric Penal Board.
- ❖ Change speed by – Frequency Drive – Siemens/ABB.
- ❖ Water Pumps – 1 No. – 1 H.P., Three Phase - A.C. (Kirloskar/Crompton make).
- ❖ Main drive – 2 H.P., Three Phase - A.C. (Bonvario make)
- ❖ Manpower required – 1.
- ❖ Capacity – 30-36 BPM of 500ml

➤ Filler with Capper 9X4 Heads :-

This is automatic, rotary, counter pressure filler suitable to fill soft drinks in pet bottles. 9 nos. of filling valves are gives maximum out-put and 4 nos. of capping heads for capping on bottles. The machine is suitable to fill bottles of 200-ml to 1 ltr pet bottle. Bottles comes from in-feed conveyor through stars and guide below the rotary-filling tank for filling. After filling process the bottles goes below the capper for capping. A cap hopper supplies the caps to the bottles continuously. After the capping bottles taken out side the machine through out-feed conveyor. Machine controlled by electric panel board and can change speed of the machine by frequency drive. All contact parts are made of AISI-304 Grade Stainless Steel. Other material of construction are close Grain C.I. casting, Mild Steel and high quality Phosphorus Bronze is being used to manufacture.

➤ Main Features :-

- ❖ Type of filler – Automatic – Rotary – Counter Pressure.
- ❖ Suitable to fill – Soft Drinks in Pet Bottles.
- ❖ Size of bottles – 500 ml Pet.
- ❖ Filling Valves – 9 Nos.
- ❖ Capping Heads – 4 Nos.
- ❖ Tanks of the filler - AISI – 304 grade stainless steel.
- ❖ Lift Cylinders – AISI –304 Grade Stainless Steel operated through cam.
- ❖ Frame of the Machine – made of Mild Steel clad with S.S. Sheets.
- ❖ Worm, Stars and Guides of the machine – made of UHMW.
- ❖ Variable speed control by – Frequency Drive (Siemens/Delta Make).
- ❖ Centralized Lubrication System
- ❖ The machine is easy to maintain and wash.
- ❖ Capacity of filling – 30-36 BPM of 500 ML.
- ❖ Manpower required – 1

➤ Air Conveyor 8 Ft. Long :-

It is used to supply bottles from blowing machine to rinser. The convey by air pressure circulating inside the conveyor from high pressure air blower. Complete in AISI – 304 Grade Stain less Steel.



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➤ **Chain Conveyor -24 Fts. Long :-**

This machine is used to convey the bottle from one machine to another machine. The slat chain conveyor the bottles with the help of drive unit. The width of the conveyor is 3.1/4" manufacture according to the size of the bottles. The slat chain, frame of the machine, stand and guide rail and S.S. Shaft is made of AISI -304 grade Stain-less-Steel. The wear strip, Side brackets, Strip of guide rail and Sprockets are made of UHMW material. The complete machine is made of AISI - 304 grade Stain-less-Steel. The machine is driven by a mounted drive unit.

➤ **On Line Code Printing :-**

This machine is used to print by laser 3 or 4 lines on the bottles which are running on the conveyor. It prints for Batch no. Serial no. MRP & Date of manufacturing etc.

➤ **Label Shrink Tunnel :-**

It is tunnel type can fitted on the conveyor to use shrinking the labels by heating elements fitted inside the tunnel. Machine covered with SS sheet and thermostat provided with the machine. 6 ft. long.

➤ **Co2 Manifold :-**

➤ **Line Filter- 3 Nos :-**

➤ **M.O.C. :- All equipments AISI - 304 grade Stainless Steel.**