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## TECHNICAL SPECIFICATION.

### Complete scheme Of 60 BPM Fully Automatic Rinsing, Filling, & Capping, Machine Suitable For Packaged Drinking Water.



#### 1) GENERAL DATA.

- **Rated Capacity** : - **60-70 BPM at 1000ml.**
- **Efficiency** : - **100% on Rated Capacity.**
- **Range of output adjustment** : - **900 BPH to 6000 BPH.**
- **Type** : - **Rotary- Mono Block**
- **System** : - **Gravity**
- **Product to be filled** : - **Water**
- **System Heads Consist** : - **12 Rinsing, 12 Filling, 6 Sealing**
- **Other size of bottle To be Used and capacity** : - **250 ml to 2000 ml.**
- **Type of Bottle** : - **Plastic Pet Bottle.**



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## 2) CONSTRUCTION.

The Whole Machine is mounted on a SS Platform clad with AISI –304 Sheet. The Rinser is made up of AISI – 304 Material. In Filter all the filling valves made up of AISI – 316 Materials. The Main and Star Shaft are in SS-304. The Gears and Sprockets are in Cast Iron and Ms. (hardened). A Single Geared motor, which is mounted at the bottom of the machine, drives the whole Machine.

## 3) OPERATION.

### ➤ Bottle In Feed & Discharge star Wheels.

Empty plastic bottles are transferred through In-feed star wheel to Rinser, Filler and Capper and then discharged the filled & capped bottles to the feed conveyor by Discharged star wheel. The star wheel will be designed to match the required bottle diameter size. It is easy to be assembled and adjusted for correct positioning.

### ➤ Rinser.

Equipped with pliers to hook the bottle on the neck and then turn it upside-down. So, that the spray nozzle goes into the bottle during the rotation to assure the highest rinsing efficiency of the operation. With NO BOTTLE NO RINSE setting

### ➤ Filler.

The filling valve is equipped with lift cylinders. The lift cylinders are used to lift the bottles. Then the filling valve will open immediately as soon as it is pressed by the bottle mouth. With NO BOTTLE NO FILL setting

### ➤ Product Tank.

The Product tank is single chamber design. The ring bowl is equipped with mechanical float. Height adjustment of ring bowl is manual.

### ➤ Filling Valves.

The filling valves are mounted directly underneath the ring bowl, this allowing for shortest product path. They are designed for fast filling without turbulence.

### ➤ Capper.

Cappers are fed manually to the hopper to suit the bottle size. The selector will unscramble the caps and send in one direction to the cap chute. When the filled-up bottles pass through under the chute will draw down the caps. Then the bottles will be carried to under the capping cylinder for capping operation. The capper can be adjusted manually for required height.

### ➤ Main Drive

The Whole Machine will be controlled by a single geared motor mounted at the bottom of the machine with electronic speed variation.



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#### 4) TECHNICAL DATA.

- Length x Width x Height : - 2200 mm. x 2150 mm. x 2500 mm
- Power : - 3 HP x 1440 RPM.  
3 - Phase 415 volt. 50 HZ  
Control 24 V AC, 50 HZ.
- Approx. Weight : - 2.5 Ton.

#### AUXILIARIES REQUIRED:

##### 1) Air Conveyor System:

- a) SS structure with support legs and manual bottle guide: 4.8 Miter
- b) Air blower with motor and Air & Hepa filter: 1 Set

##### 2) Slat Chain Conveyor:

- a) Single row: 7.3mtr
- b) Drive unit Fix: 1 No.

##### 3) Inspection Light – 1 No.

##### 4) Label Heat Shrink Tunnel- 1No.

**Note: Conveyors mentioned are minimum recommended conveyors necessary to run the machine. Actual conveyor cost will depend on your layout and building drawing.**

#### SALIENT FEATURES

- 1) Neck holding on Transfers.
- 2) No bottle No Rinse no Fill No Cap.
- 3) Pick and Place for cap Feeding.
- 4) Drive is on Chain of Gears (Not Indexing Cam) hence low on maintenance.
- 5) Safely Clutch on Machine.
- 6) No Electronics involved in any function. Hence user Friendly.
- 7) Drive Motor (Compton Make) Gear Box (Radicon Make)
- 8) All Liquid contact Parts are of S.S.- 316
- 9) SS Frame work and door will be of imported acrylic.
- 10) Air blower with 1.5 HP Blower with Hipa filters.
- 11) In feed Air Conveyor: 4.8 Miter.
- 12) Slat Chain S.S.-304 conveyor 7.3 Miter on the out feed of the conveyor.
- 13) Acrylic cover with S.S.-304 structure Cap Feeder by Elevator.