

### **Semi Automatic Four Stage Washing Machine – for Glass Bottles (Rinsing Type)**

Automatic Bottle Washing machine has been designed and developed for washing 200ml/250ml/300ml soda/soft drink glass bottles. It can be altered / modified to wash bottles of other shapes and sizes also. The speed of the machine is 36 bottles per minute. An ideal compartmentalised machine, it has various wash stages. The machine is constructed of stainless steel, is robust and can withstand the rigours of continuous use. The unique design enables easy usage and maintenance.

A number of ABS (SS is optional) trays are provided. The trays are light weight and designed such that bottles need not be kept one by one. The Trays are directly overturned on to plastic crates containing the bottles. The bottles seat on the rubber cups on the trays. This filled tray is then kept at the inlet port of the machine. A pneumatic system pushes the trays into the machine at set time intervals.

The machine has four high speed jet washing stages. In each stage, the bottles are washed twice. Each stage has its own SS tank and 2 Hp III ph monoblock pump. The water is pumped into the two rinsers of each stage. The bottles are washed by two water jets – one from the bottom which washes inside and one from the top which washes from the outside. The rinsed water falls back into the tank at the bottom through a SS mesh provided on each tank where it is filtered. This mesh can be periodically removed and cleaned. The water in the tank can also be drained and refilled periodically. The first stage can be a caustic soda wash, the second stage a hot water wash and the third and fourth stages – plain water.

After washing the trays are ejected at the end of the machine from where they can be taken off and reloaded back into plastic crates by overturning them. A control panel is provided for switching on the machine, its pneumatic system and each of the four wash pumps. Each section of the machine is provided with acrylic windows where the washing can be seen.



#### **The machine has the following advantages :**

- The unique design of the machine enables easy dismantling, transportation and installation.
- Easy to use and maintain
- Two persons are enough for operating the machine.
- Even the dirtiest bottles come out sparkling clean.
- Bottles are washed on the inside as well as outside.
- The panels of the machine can be easily removed for inside cleaning or maintenance purpose

#### **Technical Specifications :**

Dimensions: 5500mm length x 1310mm

breadth x 1625mm height

Total Horse Power: 8.5 HP Number of Trays: 24 nos

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