

## Automatic Four Head Volumetric Liquid Filling Machine



(Photograph is for the reference purpose only. Machine Construction & Specification are subject to change without prior Notice due to Continuous up gradation Process)

### Specification of the Equipment

#### Machine's Basics:

Machine Name	Automatic 4 Head Volumetric Liquid Filling Machine
Production Speed Per Hour	2400 to 4800 Products per Hour (Speed Depends upon the Number of Filling Heads, Filling Volume & Operator's Skill)
Number of Filling Heads	4 Head
Working Direction	Left to Right
Filling System	Volumetric Syringe Based (Suction from Bottom Tank)
Suitable for Products	Free Flowing Liquids
Suitable for Packing Material	HDPE / PET / GLASS / METAL TIN / Aluminium Bottles
Application	Filling Liquids in to the Bottles /Containers
Volume Capacity (Range of Syringe)	5 ml to 30 ml 25 ml to 110 ml 50 ml to 250 ml 200 ml to 1000 ml 1000 ml to 2500 ml  (Any one of the above will be given with machine. For other range need to go for Extra Set of Change Parts at Extra Cost)
Volume Adjustment	With the Help of Volume Adjustment Block
Suck Back System	NRV Based / Drip Free Nozzles
Filling Volume Accuracy	+/- 1 %
Rejection Ratio During Production	1%



Packaging Redefined

Working Height	850 +/- 100 mm
Machine Weight	Approx 400 Kgs
Machine Dimension	Approx - 6 (L) x 3 (W) x 5 (H) – in Feet
Change Parts (Optional)	Depends up on the Volume Range to fill.
No Bottle – No Filling	With the help of Sensor
Bottle Stopper	Pneumatic Based

### **Machine's Material of Construction**

Machine Main Base Frame	M.S Angles
Machine Coverings	Complete in S.S. 304
Product Contact Parts	S.S. 304
Non Contact Parts	S.S / M.S / Aluminium / Teflon (Whichever is applicable)
Conveyor	S.S. 304 Slat
Conveyor Guide	S.S. 304 with Plastic Knob
Bearings	SKF / NTN
Plating(Wherever Applicable)	ENP / Zinc / Hard Chrome / Blackening
Diving System	IGUS Bearing Based Diving System
In let & Out Let Pipes	PVC Pipes
By-Pass Pipes	Silicon Pipes
Material Collection Tray at the bottom of Conveyor	S.S. 304
Bottle Centering Cups (If Required)	Teflon or Nylon

### **Machine's Electronics & Pneumatics Components**

Motor Make	Hindustan / Remi / Bonfiglioli / Bonvario
Gear Box Make	Shacon / Remi
VFD Make (If Require)	Delta
Electrical Wiring	Ferule Numbering on all the wires with Proper Markings
Electrical Components	ABB / L&T / Siemens Make
Sensors	Photo Electric Sensor
Operating Panel	Push Button Type
Pneumatics	Janatics
Air Pipes	Janatics
Wires & Cables	Polycab

### **Machine's Power & Air Consumption Requirement**

Power Consumption	1 H.P / 230 V.AC
Phase	Three Phase
Compressed Air Requirement	2 H.P

### **Machine's Servicing & Maintenances**

Maintenance of Machine	Weekly Oiling & Greasing is Required for smooth functioning of Machine
Machine Cleaning	Advisable to clean machine regularly Weekly (In case of Sticky & Colour Base Products, clean machine daily) for smooth functioning of Machine

### **Optional Accessories (If Required by Customer at Extra Cost)**

1. Pneumatic Based Dripping Tray
2. Pneumatic Neck Holding System
3. Production Counter
4. S.S By-Pass
5. S.S. Flexible Pipes in Case of Hazardous Product
6. Flame Proof Motor & Control Panel
7. In-Feed Turn Table for Continues Bottle Feeding.
8. Pre & Post Nitrogen Flushing System
9. Polycarbonate Enclosure in Aluminium Profile
10. Stirrer System

### **Machine's Utility Requirement (Customer need to Arrange)**

1. Filling Tank / Storage Tank
2. Voltage Stabilizer to control power fluctuation
3. Main Electrical Power Input till Machine
4. Well Trained Operator for Operating the Machine
5. Un-Skilled Helper to help the Operator.