

Rotary Semi Auto Free Flow Liquid Filling Plugging & Cap Sealing Machines – Volumetric Filling



(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	Rotary Semi Auto Free Flow Liquid Filling Plugging & Cap Sealing Machines
Production Speed Per Hour	1800 to 2400 Products per Hour (Speed Depends upon the Operator's Skill)
Number of Filling Heads	2 Heads
Number of Capping Head	2 Heads
Working Direction	Clock Wise
Filling System	Volumetric Syringe Based (Suction from Bottom Tank)
Capping System	Pneumatic Screw Driver Based
Star Wheel Rotation	Indexer Based
Suitable for Products	Free Flowing Liquids
Suitable for Packing Material	Small Diameter Tubes
Application	Filling Liquids in to the Tubes & Capping
Volume Capacity (Range of Syringe)	5 ml to 25 ml
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%
Working Height	850 +/- 100 mm
Machine Weight	Approx 400 Kgs
Machine Dimension	Approx - 3.5 x 3.5 x 3.5 – all in Feet
Change Parts (Optional)	Depends up on the Volume Range to fill.



Packaging Redefined

No Bottle – No Filling	With the help of Sensor
Filling & Capping Head Up Down	With the Help of Screw Based Up & Down Assembly.

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)
Star Wheel	Aluminium – Anodized.
Cups	Nylon / Teflon
Up & Down Assembly	MS with ENP Plating
Bearings	SKF / NTN
Plating(Wherever Applicable)	ENP / Zinc / Hard Chrome / Blackening
Diving System	No Diving System
In let & Out Let Pipes	PVC Pipes
By-Pass Pipes	Silicon Pipes
Out-Feed Tray	S.S. 304
Capping Head Collet	S.S. 304 with P.U Rubber
Bottle Neck Holding	Pneumatically Operated.

Machine's Electronics & Pneumatics Components

Motor Make	Hindustan / Remi / Bonfiglioli / Bonvario
Gear Box Make	Bonfiglioli / Bonvario
VFD Make (If Require)	Delta
Indexer	Orbital
Electrical Wiring	Ferule Numbering on all the wires with Proper Markings
Electrical Components	ABB / L&T / Siemens Make
Sensors	Optex Fibre Optic Sensors
Operating Panel	Push Button Type with Small PLC – SELECT Make
Pneumatics	FESTO / Janatics
Air Pipes	FESTO / Janatics
Wires & Cables	Polycab

Machine's Power & Air Consumption Requirement

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

Machine's Servicing & Maintenance

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. S.S By-Pass
2. S.S. Flexible Pipes in Case of Hazardous Product
3. Flame Proof Motor & Control Panel
4. 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.