



Rotary Piston Filling Cum Sealing Machine MONOBLOCK



"GMP" Automatic Rotary Piston Filling Cum Sealing Machine is versatile, self-supported on stainless steel leg with height adjustable adjustment system. The machine is precision built on sturdy welded steel frame completely enclosed in stainless steel sheet and doors are provided to facilitate the servicing of machine, work on volumetric principle with rotary motion. The unit is made compact, versatile and enclosed in stainless steel elegantly matt finish body. No container No filling & No Sealing system arrangement is standard features of the machine.

The main drive of the machine, conveyor drive & cap-feeding bowl consist of A/c Motor with synchronized variable A/c Frequency Drive.

Operation:

Containers moving on SS Slat conveyor, feed below the filling nozzles through feed worm & in-let star wheel, Filling station consist of volumetric filling head and a central rotating liquid reservoir tank. This reservoir tank fed continuously with the liquid by external source. In-feed liquid controlled automatically by sensing the liquid level in the reservoir tank with the help of float switch to actuate pneumatically operated solenoid valve. Fill volume adjustment can be done by a screw, which changes the volume of all the syringes simultaneously. Fine adjustment of individual syringe is possible with the help of mechanism provided on top of the individual syringe.

After filling star wheel bringing the container below the sealing head in the subsequent indexing part, meanwhile the bottle pickup a cap from the delivery chute of cap filling bowl, where the body and the neck of the container are positioned below the rotating head, where the sealing head is performing perfect operation of threading & sealing.

Model		GRFS-6/6	GRFS-8/8	GRFS-16/8
Output/Hour*		2500 to 7500	4000 to 10000	7000 to 14500
Number of head/Syringe		6	8	16
Direction of Movement**		Left to Right		
Fill Size***		30 ml to 200 ml		
Electric Specification **	Main Machine	3 HP / 415Volts / 50 Hz.		5 HP / 415Volts / 50 Hz.
	Oriental Bowl	0.25 HP / 415Volts / 50 Hz.		0.5 HP / 415Volts / 50 Hz.
	Conveyor	0.5 HP / 415 Volts / 50 Hz.		0.75 HP / 415 Volts / 50 Hz.
Height of Conveyor **		910 mm to 960 mm Adjustable.		
Machine Dimensions**		3050(L)x1400(W)x2200(H)		3660(L)x1700(W)x2400(H)

* Depends on bottle size, cap size and type of cap. ** We can supply as per customer requirements. *** With help of change parts.

Salient Features:

- 'GMP" Model based on advanced technology.
- Single Operator for Two Operations.
- Less Floor Area -as both the sections driven by one motor.
- No Contamination – as immediate sealing of filled bottles.
- Accuracy + 1% accuracy due to piston Dosing principle.
- Centralized Volume Adjustment System- no down time in volume settings.
- No Bottle –No Fill for Individual head, hence no spillages.
- Placing of Cap Feeder Outside Monoblock-avoid entering of dust in it.
- Less Caps in chute, automatically stop the Machine.
- Additional Sensors for Minimum and Maximum Level of Cap in chute which automatically Start and stop rotary cap feeder to avoid Damage of caps during Rotation and Waste of Energy.
- Better finish – imported polished, laminated S.S. sheet used.
- Separate variator drive to control speed of conveyor.
- Electronic liquid level controller and pneumatically controlled control valve.
- Drip trays under the conveyor.
- Self Lubricating UHMW- PE Guide profile for Low friction wear surface, smooth and noiseless conveying.
- Universal Coupling for quick and easy setting of In-feed worm.
- Safety Guard for Operation and Protection.
- Electronic Sensor at out feed for Bottle Jamming.