

DMBLF-series Liquid Bottle Filling and Capping Machine (Monoblock)



The Liquid Bottle Filling and Capping Machine is used for the filling of medicines pesticides, liquid detergents, cosmetics, oils, liquid foods and milk in the chemicals, cosmetic, food, beverage and Pharmaceutical industries. The Bottle Filling with Capping Machine is suitable for filling 10 ml to 1000 ml of liquid in the containers and bottles. The machine is also known as Monoblock Liquid Filling and Capping Machine as it saves the additional space between the filling and capping machines. The Monoblock Liquid filling capping machine is equipped with volumetric piston pump filling system and filling nozzles for the filling of liquid. The machine has a stainless steel structure with matt finish. The filling nozzles and syringes are made up of SS 316 material. The machine has a least space between the filling and sealing so called Monoblock. The variable frequency drive controls the speed of filling in the machine. It has a control panel with screen through which the operator can easily check and control the operation of filling. The machine is suitable for operation in both the sterile and non sterile areas.

Process of operation

The bottles are carried by a stainless steel conveyor belt under the filling nozzles with the help of stopper system. The reciprocating filling nozzles and mechanical stopper systems brings the bottles below the filling nozzles in the accurate position to avoid the wastage and spillage of liquids outside the bottles. The filling nozzles fill the liquid perfectly according to the amount to be filled. A hexagonal stud stops the filling when the required amount is filled.

Salient features

- The machine has a cGMP design
- Equipped with piston pump filling
- Foam free filling with Diving nozzle systems for
- "No Bottle No Filling" mechanism
- Protection clutch mounted to avoid overcrowding
- Linear left to right direction of filling

- Suitable for filling all type of glass, plastic bottles and other round bottles
- On line mechanism
- Vibrating bowl for the caps
- Matt finish stainless steel structure
- Variable frequency drive for motor speed control
- The capping machine comes with two and four filling heads
- Filling machine comes with single and four capping heads

Technical Specification

MODEL NO.	DMBLF- 2X1 (2 HEAD FILLING & 1 HEAD CAPPING)	DMBLF-4X1 (4 HEAD FILLING & 1 HEAD CAPPING)	DMBLF-4X4 (4 HEAD FILLING & 4 HEAD CAPPING)
Filling type	Volumetric Piston Pump	Volumetric Piston Pump	Volumetric Piston Pump
Output Per Hour	1500 to 2000 / hour (Depend on size)	2500 to 4500 / hour (Depend on size)	2500 to 5000 / hour (Depend on size)
Direction of Movement	Left To Right	Left To Right	Left To Right
No. Of Filling Head Syringe / Pump	Two	Four	Four
No. Of Capping Head	One	One	Four
Filling Size	10ml to 1000ml	10ml to 1000ml	10ml to 1000ml
Power Consumption	For Main Machine – 2 H.P. / 415 V/ 3 Phase, 50Hz	For Main Machine – 3 H.P. / 415 V/ 3 Phase, 50Hz	For Main Machine – 4 H.P. / 415 V/ 3 Phase, 50Hz
	For Conveyor – 0.25 H.P. / 415 V/ 3 Phase, 50Hz	For Conveyor – 0.25 H.P. / 415 V/ 3 Phase, 50Hz	For Conveyor – 0.25 H.P. / 415 V/ 3 Phase, 50Hz
Conveyor Height	800 to 900 adjustable	800 to 900 adjustable	800 to 900 adjustable
Container Dia.	Dia. 28mm to 100mm (Round shape)	Dia. 28mm to 100mm (Round shape)	Dia. 28mm to 100mm (Round shape)
Container Height	50mm to 250mm	50mm to 250mm	50mm to 250mm
Dimensions	2450mm X 1000mm	2700mm X 1000mm	3250mm X 1000mm
Weight	750 Kgs	850 Kgs	1550 Kgs