

Semi Automatic Timed Gravity Liquid Filling Machine - Linear with PLC Machine

The Semi Automatic Liquid Filling Machine is ideal for bulk filling of all types of non-viscous liquids in Glass, PET or other types of bottles. The machine is a low cost option for the small and medium scale industries. It is PLC controlled and the exact quantity of liquid required to be filled can be set. Quantity of liquid can be set from 50 ml to 2 liters. It is useful for filling liquids like Mineral Water, Milk, Juices, Liquid soaps, Medicines, Edible Oils etc. Hot filling is also possible.

The Machine consists of a long table on which the bottles can be kept in a line. There is a small tank on top of the machine with an automatic liquid level sensor and a pump. There is a control panel with a PLC to control the fill quantity and other features of the machine.

A brief method of using the machine:

- Switch on the machine.
- Calibrate the machine according to the viscosity of the liquid to be filled. This is a one time setting.
- Set the quantity of liquid to be filled.
- Switch on the pump. Liquid fills in the overhead tank.
- Align four bottles with the four filling nozzles and press a foot switch. The bottles are filled with the set quantity of liquid.
- Push the next batch of four bottles in place and press the switch and so on.
- Production can be anything between 8-16 bottles per minute depending on the quantity & viscosity of liquids and the speed of the operator.

Advantages of the machine:

- Easy to use and requires very less maintenance.
- Flexibility of use to accommodate all types of liquids and bottles.
- The filling nozzles can be adjusted quickly according to the diameter and height of the bottles.
- Easy to clean after use.
- User friendly and does not require much training. The filling is controlled pneumatically and so an air compressor with a 1 Hp motor is required.



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