

Specifications and Functions

- Pumping of the product is carried out using a 316 St/St gear pump.
- A flexible hose is fitted to the pump inlet that is connected to your storage vessel, IBC, or drum using a dip pipe.
- The method of filling in to the bottle is either “In To Neck” using Centre Jet nozzles or “Bottom Up” using Filling Tubes. Both types of nozzles have “Positive Shut Off” and are interchangeable for different diameters.
- Containers are manually presented to the filling nozzle by the operator and the filling cycle can then be started by various options. In manual mode the fill button can be pressed on the control panel, a foot switch can be pressed on the floor or a neck sensor can detect the bottle to dispense a shot. In auto mode the fill button is pressed to start the machine filling, the machine will then dispense a shot, wait a predetermined time (adjustable) and then dispense another shot, this will continue until the stop button is pressed.
- A flush switch is fitted that runs the pump and opens the nozzle to allow cleaning of the machine and pulling through of products.
- A Servo Motor is used to drive the gear pump, this type of motor achieves a much higher fill speed and accuracy than many existing filling machines on the market can achieve. (The pump can be stopped at 4000ths of a revolution and automatically adjust speed to compensate for varying viscosity's).
- A 2 speed fill option can be used so that product can be filled into the bottle at, for example, high speed for the first 95% then slowed down for the final 5%. This is useful for products that aerate easily and filling at full speed for the full volume would result in an overflow. (The 2 speeds and the point at which the speeds change are adjustable).
- The machine is PLC controlled and all operator intervention is carried out through a LCD operator terminal.
- All setting data (pump speeds, fill volumes etc.) for each product is stored in the operator terminal and is simply downloaded to the PLC by the operator on a changeover. The operator will simply choose the product required from a menu on the screen.
- Simple information on the operator terminal shows the machine status with user friendly options to help the operator make any adjustments.
- Production data including bottles per minute, total bottles produced etc. can be displayed on the operator terminal.
- Changeovers are fast and simple and require no physical adjustments as the settings are stored in the operator terminal.
- Services required are: Electrical - 240V 1ph Compressed Air - 80 psi.
- The machine is compact with a small footprint and simply sits on a work top.