



HMPL-PLF Automatic Piston Filling Machine



The Automatic Piston Filling Machine consists of a main structure, product transmission belt with an adjustable guide, jacketed storage tank for filling material, safety polycarbonate enclosure with SS pipe frame (OPTIONAL), pneumatic bottle stopping facility, pneumatic operated filling nozzle, electrical panel, motor, sensor, PLC & HMI, AC drive & mains ON/OFF.

Features

- The machine is manufactured or developed per GMP standards.
- The SS square pipe frame structure with doors of SS 304 sheet.
- Rigid vibration-free construction for trouble-free performance.
- SS elegantly matt-finished body.
- All contact parts are comprised of SS 316/Silicon/Teflon/Nylon/PVC.
- Conveying system to convey the product with an easily adjustable side guide.
- Self-lubricating UHMW-PE guide profile for SS slat chain provides low friction wear surface, smooth and noiseless conveying.
- Elegant and easy control panel for total control of operation.
- All interlocks must be shown on the control panel.
- Integrated with PLC and user-friendly 7" touchscreen HMI for easy operation.
- Special pneumatic filling system for dispensing of filling material.
- Each filling head has a separate control which allows fine-tuning of each nozzle.
- ± 1 % Filling accuracy of filling weight.
- 20 Liters jacketed tank with a stirrer.
- No Bottle No Filling System.
- Safety polycarbonate enclosure with SS pipe frame (Optional).
- Minimum change over time, from one size to another bottle or fill size.

- Pneumatic product stopping & nozzle diving arrangement.
- Synchronized AC drives for the main motor & conveyor belt.
- Safety guard for conveyor gearbox, motor and pneumatic cylinders.
- MCB for overload protection, and prevention against short circuits.
- Most reliable & proven components such as pneumatics & electrical/electronic such as AC motor, AC Drives, PLC & Touchscreen HMI, Sensors, MCB & relay “CE” certified.

Technical Data

Bottle Shape & MOC	Round PET/HDPE Bottles/Jars
Filling Material	Viscous Products like Balm, Cream, Lotion, Butter, Mayonnaise
Filling Volume	5 Grams to 1000 Grams (With the help of required change parts)
Filling Head	2 (Two) to 12 (Twelve) (As per Customer Requirement)
Storage Tank	20 Liters
Direction of Movement	Left to Right
Output Speed (BPM)	Up to 20 Products/Minute (Depending on viscosity of material & manual loading)
Air Pressure	8 to 10 Kg/Cm ² with Regulator & Filter
Electrical Supply	Three Phase +N +E / 415 V AC / 50 Hz
Working Height	875 mm ± 50 mm Adjustable
Net Weight	350 Kg Approx.
Dimensions (L x W x H) mm	1800 mm L x 1700 mm W x 2200 mm H Approx.