



AUTOMATION MACHINERY MANUFACTURER

# LINEAR FILLING MACHINE

## APOLLO FM



**Apollo FM** is linear filling machine with dosing system based on **induction or mass flow meters**. The machine excels in filling precision, is very well cleanable, simple to operate and can be easily set to other format. The machine can be used in **pharma, cosmetics, food and chemical industry**.

## Basic configuration

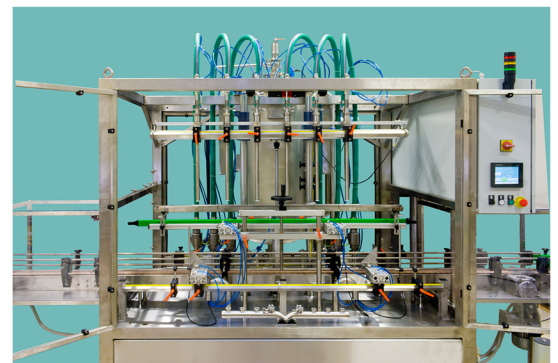
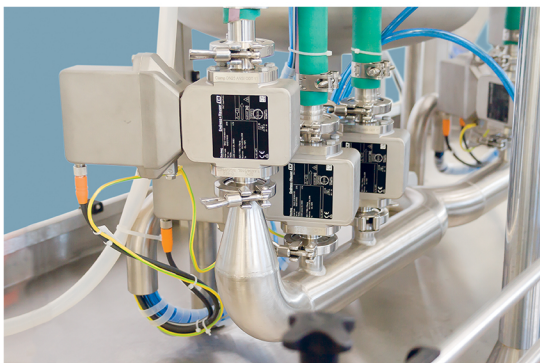
- Machine stainless steel frame mounted on height adjustable legs
- Motorized stainless steel conveyor with adjustable speed
- Infeed and outfeed gate which locate the group of bottles under the filling nozzles
- Bottle presence sensor
- Flowmeters for dose measurement
- Rise while fill nozzles
- Closing of the filling nozzles (anti-drip system)
- Bottle neck support for neck alignment
- Anti-drip tray under filling nozzles
- Sensor to detect collision of filling nozzles
- Sensor to detect outcoming bottles from filling area
- Sensor to detect full downstream conveyor
- Siemens control system with touch screen
- CE safety guards

## Other options

- Product tank made of stainless steel AISI 304 or AISI 316 with level control
- Product dosing pump CIP inlet connection
- Spray ball inside product tank
- Set of adapters for nozzles cleaning
- Motorized lift of filling nozzles
- ATEX configuration of the machine
- Corrosive proof version
- Food/pharma grade execution
- Remote access

## Process description

- The containers enter the machine on the conveyor with plastic or stainless steel belt. Before entering the filling area, the containers are stopped by inlet pneumatic gate. Once the previous group of filled containers leaves the filling station, the gate opens and allows next group of containers to enter. After entering of the next group the inlet gate is closed again. In case one or more containers are missing, the system waits and the filling process does not start.
- After entering of all containers, the filling process starts. As soon as the bottle necks are automatically centered, the nozzles dive into the bottles and open. The dose is measured by flow meters. For dosing of the product pumps or pressurized tank can be used. The filled dose is adjustable from the touch screen, which enables fast and easy change of the dosing volume and parameters.
- After finishing of the filling process the nozzles close and the anti-drip tray moves under the nozzles to avoid staining the containers. Then the outlet gate opens and lets the containers out of the filling machine.



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