

# VOLUMETRIC FILLING FOR EDIBLE OIL

Filling Closing Division



FMT has been operating for years in the manufacturing and engineering field of high quality products for the industry of consumers' goods.

FMT developed an automatic rotating filling machine specifically designed for edible oils and by-products and equipped with a volumetric filling system.

**RELIABILITY, STRENGTH, ACCURATE MANUFACTURING QUALITY  
AND HIGH STANDARDS OF FILLING PRECISION  
ARE THE MAIN CHARACTERISTICS OF OUR MACHINES**





**CONFIGURABLE GLOBAL SOLUTIONS,  
SUITABLE TO COMPLY WITH THE CUSTOMERS REQUESTS,  
ESPECIALLY IN TERMS OF TECHNICAL  
AND LOGISTIC NEEDS.**



**Monoblock:  
Filler  
Capping machine**

**Monoblock:  
Blower  
Filler  
Capping machine**



**Filler Stand-alone**



**STRENGTH,  
PRECISION SYNONYM**

The machines for this specific sector are designed so as to minimize the flexion phenomena that might take place during the filling phase of high viscosity products. It becomes possible in this way to reach high accuracy and repeatability of the filled volume.



## AUTOMATIC ADJUSTMENT OF DOSED VOLUME

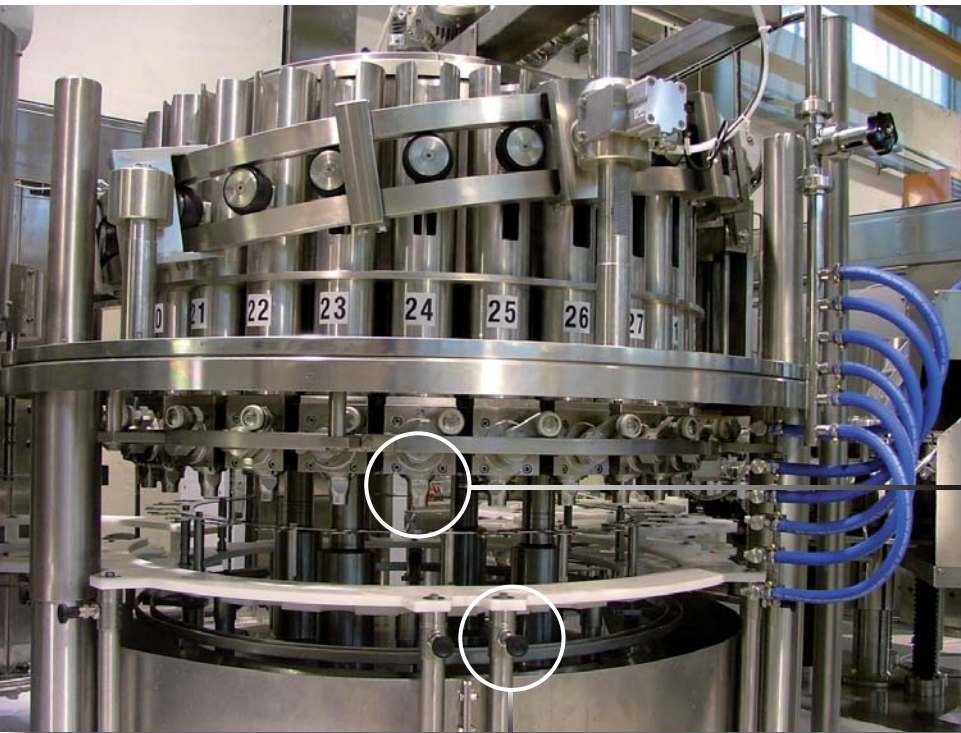
The machine can be provided of automatic device that permits the definition of the volume to be dosed. This operation is possible through the operator control panel.

## DOSE MODIFICATION ON THE BASIS OF THE TEMPERATURE AND OF THE SPEED

Thanks to the automatic device for the dosing volume definition it is possible to implement two software functions from the PLC:

- filling volume correction, on the basis of the product density variation caused by the temperature changes;
- filling volume correction, according to the variability due to the physical and fluid mechanic conditions connected to the rotation speed of the machine.





### CONCENTRIC NOZZLE DROP-PROOF

A special new model of nozzle has been designed to prevent the product dripping effect on the filling valves. It is called 'NDPS' (Nozzle Drop Proof System).

### ADJUSTABLE INLET WORM SCREW

The correct spacing between the bottles entering the machine is made by means of a synchronized worm screw with filling carousel. In case of special bottles, it is also possible to supply a second worm screw.

All these tools can be adjusted according to the specific dimensions of the container.

### QUICK FORMAT CHANGE

Our machines are equipped with special tools designed to simplify and shorten the format change operations.



### CONTAINERS HANDLING

Handling of the containers is made by means of body star wheels - containers are held from the bottom.

In case of PET containers, the machine can also be provided with handling systems that hold the bottle from the neck.



## CAPPING MACHINE TURRET

The machine in the monoblock version can be supplied with single or double turret. In case of double turret - used in case of different caps - it is possible to install an automatic inserting device able to reduce the format change times and to simplify the machine general lay-out.

Each turret can be supplied with single or double feeding channel with relevant hopper.

Thanks to this versatility it is possible to close different type of container using the appropriate caps.



Aluminum cap application - detail.



# High-tech Machines for Food and Beverage Industry

FMT company developed global solutions meant to automate the packaging process and systems. FMT is the best technological partner capable to engineer, realize and adapt its own products to the different requirements of the food and of the beverage markets.



*I t a l i a n   T e c h n o l o g y*



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