

## 8 Pistons Rotary Filling Machine

Model : 8 PF 9000

- Product: different sauces, tomato paste, jam, oil
- Container type: glass, plastic, metal can
- Container size in diameter: 50mm to 110 mm
- Container size in height: 35mm to 110mm
- Filling volume adjustable from 70 to 1000cc
- Machine dimensions in mm: W=3000, L=1400, H=2000
- Filling output: 3.000 to 9.000 bottle per hour
- Suitable for semi-solid and viscous products
- No bottle No filling mechanism

### Option

- Diving nozzle (filling from bottom of bottle)
- Filling of non-stable bottles by means of holder



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## 10 nozzles servo filler

### Technical details

- ☒ Suitable for different kind of thin & thick materials from 100 to 1000 grams in one shot and 1000 to 2000 grams in two shots .
- ☒ Filling speed: 45×1 lit bottles per minute (depending on the product type)
- ☒ Filling accuracy: ±1 %
- ☒ All contact parts are made of stainless steel 316L with 1.15 to 3 mm wall thickness and the machine cover is made of stainless steel 304.
- ☒ With 4.5 meter long conveyor made of wear-resistant Polyamide
- ☒ Equipped with Servo motor and ball screw for the main motor
- ☒ With SIEMENS PLC and HMI
- ☒ Equipped with 10 stainless steel ball valve 316L + pneumatic actuators
- ☒ Adjustable filling volume on HMI
- ☒ All nozzles and machine cylinder are made by CNC machines
- ☒ The machine chassis is made of hollow profile with the epoxy paint
- ☒ Equipped with height adjustment system for different containers
- ☒ Electrical parts of power panel: Schneider (made in Germany)
- ☒ Sensors: Sick (made in Germany)
- ☒ Pneumatic accessories: FESTO (made in Germany)
- ☒ Equipped with drop free nozzles and automatic CIP system
- ☒ Machine cover plate has gutter for easy wash
- ☒ Machine has software definition for 5 different bottle types
- ☒ Machine is equipped with a 240 liter tank, drain valve, 10 inlet valves, electronic floater and sight glass
- ☒ Machine includes 18 months warranty and 10 years of after-sales service for an 8 hour shift

### Remarks

For higher filling capacity double conveyor version is available



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## Atmospheric Homogenizer Mixer

Model:MH-500

Including 500 lit vessel (single or double jacket optional)

Equipped with 18.5KW ,3000 rpm inline homogenizer pump & circulation pipeline

Equipped with electro - gear box for scraper

Stainless steel sight & light glass

All body made of stainless steel 304

All wet parts made of stainless steel 316

Including power panel (with Japanese / Korean devices)

Option: lobe/mono pump for finished product discharge

Including sampling valve & C.I.P balls

Digital temperature indicator & controller

Bigger versions available upon request



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## Automatic Piston Filling Machine

MODEL:2PF- 3000

- Type of container: metal, glass, plastic, and PET.
- Container diameter: 50-110 mm
- Container height: 50-200 mm
- Filling output: 1500-3000 per hour
- Dimensions: width 18000 mm, height 2500 mm, length 1100 mm
- Inverter to easily adjust the filling speed.
- Intelligent No bottle/No Fill function.
- Best suited for viscous products such as Mayonnaise, Ketchup, Jam, Pickle, honey, and marmalade.

Options:

- Filling volume up to 1500 cc per bottle
- Single or double jacket vessel with mixer
- 2 piston filling machine for container up to 8 liters (bucket filler)



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## **Blender pump**

Landing pump to dissolve powders in liquids in line

- This device is used to quickly dissolve powder in liquid or to add powders that do not dissolve easily in liquid (are hydrophobic).
- Parts in contact with stainless steel 316
- Hooper for powder material with a volume of 45 liters with 3-inch milk
- It has a 3 kW electric motor
- It is possible to adjust the powder flow
- 2 inch liquid inlet valve with 2 outlet valve
- Dissolving capacity of about 1.5 tons of powder per hour



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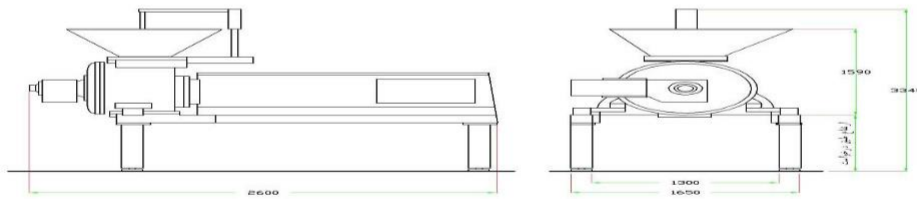
## DVM Series Dairy Homogenizer Mixer (Estefan)

Dairy Homogenizer mixer for cooking dairy products based on German's Stefan **Suitable for mixing, baking and processing processed cheese or similar products;**



### Technical details

- All parts in contact with the material are made of 316 L steel
- Mixer volume 300 liters (possibility of making other capacities according to the customer's order)
- Simultaneous dispersion, homogenization and emulsion
- Equipped with P.L.C and H.M.I to define different production programs
- Has a scraper (armpit lathe) to scrape materials from the wall
- It has a powerful electric motor and 3 rows of blades to mix the product in very high concentrations
- Has an inverter to adjust the stirring intensity of the material
- Has a temperature sensor and digital controller
- Double wall tank for injecting steam or hot water into the mixer
- With the ability to add ingredients or hot water during the process
- Direct injection of steam into the product
- Has a steel lift to load materials into the mixer
- It has a vacuum pump and a vacuum sensor to maintain the vacuum until the end of the production process



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## Full Automatic Capping Machine

### MODEL: CM 10000

- Capping speed: Max. 10.000 bottle per hour (Varies depending on container and cap details)
- Approximate machine dimensions: 280×1000×3000mm
- Equipped with 6 heads adjustable to speed revolution
- Equipped with lateral anti abrasion belts for adjustable for various diameter of bottles
- Equipped with inverter and digital monitor
- Equipped with elevator and automatic cap sorter
- Suitable for metal/plastic caps in sizes 38 to 120mm
- Nearly no need to change parts for similar sizes of cap and container
- Adjustable for glasses with height of 25 to 300mm
- All covers are made of stainless steel
- Famous international brands for all motor gearboxes and electronic parts
- All motor gearboxes are apart from contact with water and detergent
- Equipped with frequency inverter

### Options

- Magnetic elevator and sorter
- CM20000 model for capping speed higher than 10.000 bottle per hour
- 8 heads adjustable rotation speed
- Integrated sub-cap steaming



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## Homogenizer mixer model MHM-60 K-I

### Applications

**Food industry:** Mayonnaise, ketchup, thousand islands, etc..... in different sizes with double wall options for heating and cooling and third wall for thermal insulation and operator safety

**Cosmetics industry:** shampoo, oxidant, gel , etc.... in different sizes with double-walled options for heating and cooling and the third wall for thermal insulation and operator safety

- Equipped with variable R.P.M system
- Equipped with independent control panel
- Has an electronic remote control system and digital display
- Equipped with hydraulic jack with 600 mm course
- Equipped with pneumatic actuator to drain the sauce after the production process
- Equipped with oil seal with adjustable control
- Useful volume: 60 kg and 100 kg
- Production time per batch: 4 minutes for mayonnaise
- Minimum speed: 3000 rpm
- Maximum speed: 6000 rpm



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## Multi-stage homogenizer model MSH40

Copied from the product of the German company YTRON

### Applications

**Food industry:** tomato paste line equipment, ketchup sauce, mayonnaise and mustard sauce, juice and concentrate, flavoring emulsions

**Cosmetics industry:** cosmetic creams, hair dye

**Pharmaceutical industry:** Pharmaceutical ointments

**Chemical industry:** polymers, diluting SLES

In conventional methods, fruit juice concentrate is prepared by piston homogenizers at a pressure of about 100 atmospheres. The high cost of purchasing a piston homogenizer, the very high energy consumption, as well as the ancillary costs of consumable parts and expensive maintenance repairs are all problematic points of using piston homogenizers. In addition, the possibility that the taste of the juice will metallize due to the very high pressure is not far from the mind.

The structure of the multi-stage homogenizer is such that the juice is subjected to shear stress 11 times by passing it through the rotor-stator only once to ensure the achievement of the appropriate texture and particle size.

The use of a multi-stage homogenizer for all types of fruit juice ensures equal or better results than the above-mentioned conventional method.

In the RS series homogenizer pump, part of the engine power is spent on circulating products. However, in these homogenizers, all the power of the motor is used to apply very high shear stress to the product and the task of circulating the material is assigned to the feed pump.

By passing the product through this homogenizer only once, it is subjected to shear stress 11 times and the maximum reduction of particle dimensions is achieved. Therefore, unlike the RS series homogenizer pump, which works in batch, it has the ability to work continuously

### Options

- Suitable substitute for colloidal mill and piston homogenizers
- Ability to work 24 hours a day, 7 days a week
- Design in accordance with GMP principles and CIP and SIP capabilities
- All parts in contact with the material are made of 316L steel
- Capacity of about 5000 to 20,000 liters per hour depending on the viscosity of the material as well as the volumetric flow of the feed pump
- Use of a powerful 30 kW electric motor (40 hp) - 3000 rpm
- Has 3 sets of rotors - stators with nested compartments (Multi Chamber)
- Minimum slack between all rotor-stator shear surfaces
- Ability to operate under vacuum or under pressure



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## **Piston pump (suitable for handling very concentrated liquids)**

This pump sucks the concentrated material from the relevant container with high power and then discharges it from the outlet of the high pressure pump.

### **Applications**

Suitable for handling very thick liquids such as tomato paste, curd, toothpaste, fruit concentrate, industrial adhesives and .....

- Copied from Graco USA
- All parts in contact with materials made of 316 steel. The rest of the parts made of 304 steel.
- Has a cylinder and piston mechanism
- Has a full pneumatic mechanism (without the need for electricity)
- The volume of material per injection is about 5 liters
- Has a compressed air care unit
- Has a pneumatic piston speed control valve
- Has wheeled bases for easy movement



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## **Piston Servo Filling Machine - Two Rails 10 Nozzles (SPF-TWIN 10)**

- 10 nozzles filler suitable for thin and concentrated materials
- Has a servo motor to fill materials with a maximum error of 5 per thousand
- Servo motor for precise control of nozzle movement inside the bottle (possibility of defining multiple steps with different lengths and desired movement speed)
- Ability to fill foaming materials
- It has two rails to increase the filling capacity
- Ability to make all settings from H.M.I.
- Quick call schedule for each bottle from the P.L.C
- Equipped with C.I.P



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## Semi-automatic filling machine

- For filling liquids in bottles or cans (such as water, oil, mayonnaise and ketchup, etc.)
- Single cylinder
- Has a pneumatic mechanism with the ability to adjust the filling volume
- No need for electricity - fully pneumatic system
- Customizable cylinder volume: 0.5, 1 and 5 liters (filling 8 liter sauce cans with two injection in the can).
- Has a steel tank with a lid
- Material of all surfaces in contact with materials is 316 steel
- With drip pneumatic valve (prevent material from falling from the nozzle)
- Has a button to adjust the position of a filling multiplication or serial multiplications by pressing the pedal once
- Has the ability to adjust the suction speed of the material from the tank and also adjust the injection speed of the material into the container



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## **TF-12 2000 filling tube**

Suitable for filling concentrated and semi-concentrated materials such as shampoo, hand and face creams, gels and etc...the super-filling machine is a 12-house tube that is able to fill concentrated and semi-concentrated materials such as shampoo, hand and face cream, various gels, etc. in tubes made of multi-layered polyethylene and laminate.

One of the advantages of this device is the use of servo motor in the drive system of this device, which has different features compared to other similar devices, both in terms of fewer parts and mechanical simplicity, and in terms of various controls by PLC.

### **Other important points of this device:**

- Use 316L steel in all parts in contact with the product
- The above device has safety features
- The sealing in the nozzle of the above device is of metal on metal type



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## VC Vacuum Mixer homogenizer

Vacuum homogenizer mixer VC series is used to produce various emulsions and suspensions used in food, cosmetic, pharmaceutical and chemical industries.

### Applications

**Cosmetics industry:** creams, cosmetics, lipsticks, mascara, hair glue, masks, hair dyes, creams, color pigments, lotions, toothpastes, shampoos



### Technical details

- Has a double or triple wall tank
- Sheet thickness calculations and welding details according to American Mechanical Engineers Regulations (ASME)
- Has in line homogenizer pump
- Has CIP
- Ability to open the door vertically (with safety mechanisms)
- Has a stirrer mechanism and wall lathe with counterclockwise rotation - Counter Rotation Shafts
- Capable of liquid materials and powder during production
- Higher speed in the process of cooling (or heating) the product than VMH series devices
- Ability to install two separate inverters for stirrer and scraper (wall lathe)

Model	Minimum - maximum volume	Approximate amount	Dimensions (mm)			
	Usable (liters)	Power consumption (KW)	Length (A)	Width (B)	Height (C)	Height (D)
VC - 300	40-250	25	1800	1800	2600	3300
VC - 500	400	26	2000	2000	2750	3500
VC - 700	80-600	40	2100	2100	2900	3500
VC-1300	1100	40 ~ 48	2500	1600	3250	4100
VC-2400	2000	53 ~ 61	3500	2100	3900	4800



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## VMH-Lab

- Vacuum mixer homogenizer laboratory size:
- Stainless steel double jacket vessel with the capacity of 8 liters (capable of producing 1-8 liters in one batch)
- Homogenizer pump, rotor/stator stainless steel model 3000 rpm
- Equipped with circulation and discharge valves
- Equipped with a separate gearbox to run scraper agitator
- Manual lift able lid
- Stainless steel machine structure
- Power panel with Japanese and Korean devices
- 2 valves for dosing of liquid and powders on homogenizer inlet side (Option: Pneumatic actuators on valves)
- Vacuum pump and digital vacuum controller
- Sight & light glass to inspect inside of the mixer
- Digital temperature controller

### OPTIONS:

- Adjustable r.p.m for scraper and homogenizer by means of inverter
- 3 jacket stainless steel vessel (3rd jacket for thermal isolation)
- Hot water/oil pot and circulation pump with adjustable digital temperature controller
- Applicable to install batch homogenizer ( IKA model) with electrical elevator on the side tank
- Temperature controller with digital display on the additional hoppers
- Mounting the machine on the wheels with lock for ease to move around
- Option for power supply 3 phases or single phase (based on customer demand)



ECONOMY VERSION



FULL VERSION P.L.C



FULL VERSION



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