

**For Pneumatic Filling Machine FMSA10**

# **USER MANUAL**

## **THE MAIN PRODUCTS**

**Filling machine  
Packing machine  
And other mechanical equipment**

**Sealing machine  
Coding machine**

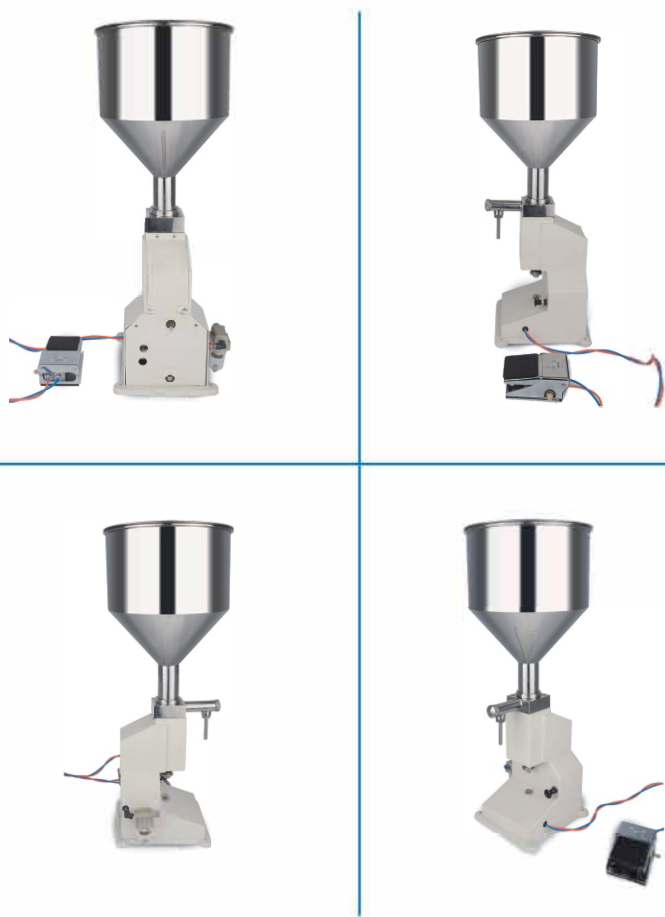
**We also customize all kinds of packaging machinery according to customer needs**



## FMSA10 Product Introductions:

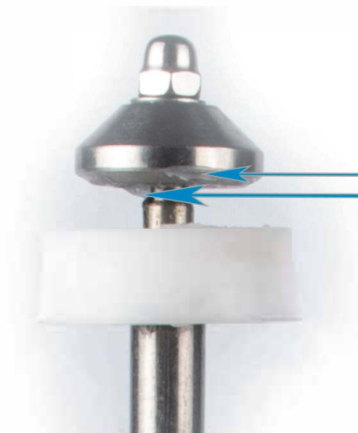
This 02 Pneumatic filling machine is specially designed for small and medium enterprises.

Pure pneumatic control filling connection 8mm trachea, with oil and water separator.



## Please Note Before Use:

1. To protect the piston, when machine leave the factory, we will apply a layer of oil ( white oil ) to the piston. When the machine is in working condition, there is no need for lubricating oil, because the liquid or paste itself will lubricate it. Of course, if the machine is not in use for a long time, we also recommend that you apply lubricating oil to the piston to protect the machine.



2. So we recommend that you wash the oil off with water before using it.

## How to clean the machine?

- When the machine leaves the factory.
- The piston is lubricated to protect the machine.
- We recommend that you clean the machine before using it,



## FMSA10 Product Feature:

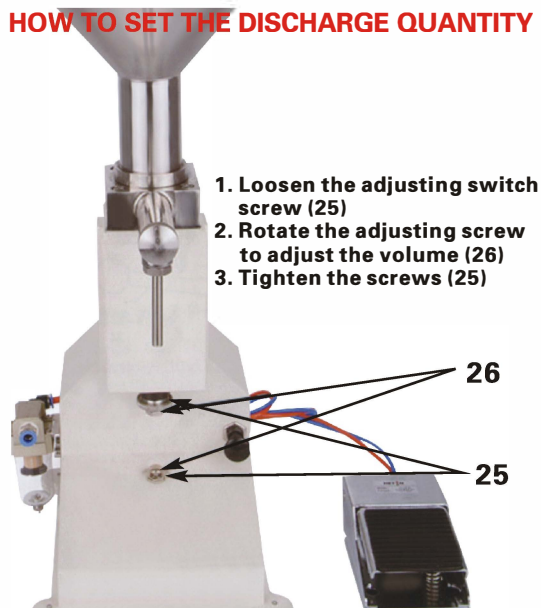
- Can only be used for liquid paste with good liquidity.
- It is suitable for medicine, daily chemical, food, pesticide and other industries.
- Can fill beverage, fluid food, lubricating oil, shampoo and other liquid paste material (Without Particulate).
- All parts in contact with the filling object are made of stainless steel and Polytetrafluoroethylene.
- The maximum capacity of the hopper is 10 kg, Filling capacity can be set freely.
- The machine is extremely accurate (+/- 1%) and simple to operate.
- It has anti-drip function.

## FMSA10 Product Specifications:

- Filling Range: 5–50ml
- Operating mode: Pneumatic
- Hopper Capacity: 10kg
- Accuracy: ± 1%
- Filling Material: cream & shampoo  
Cosmetic etc
- Machine size: 710mm\*280mm\*230mm
- Machine weight: 10kg

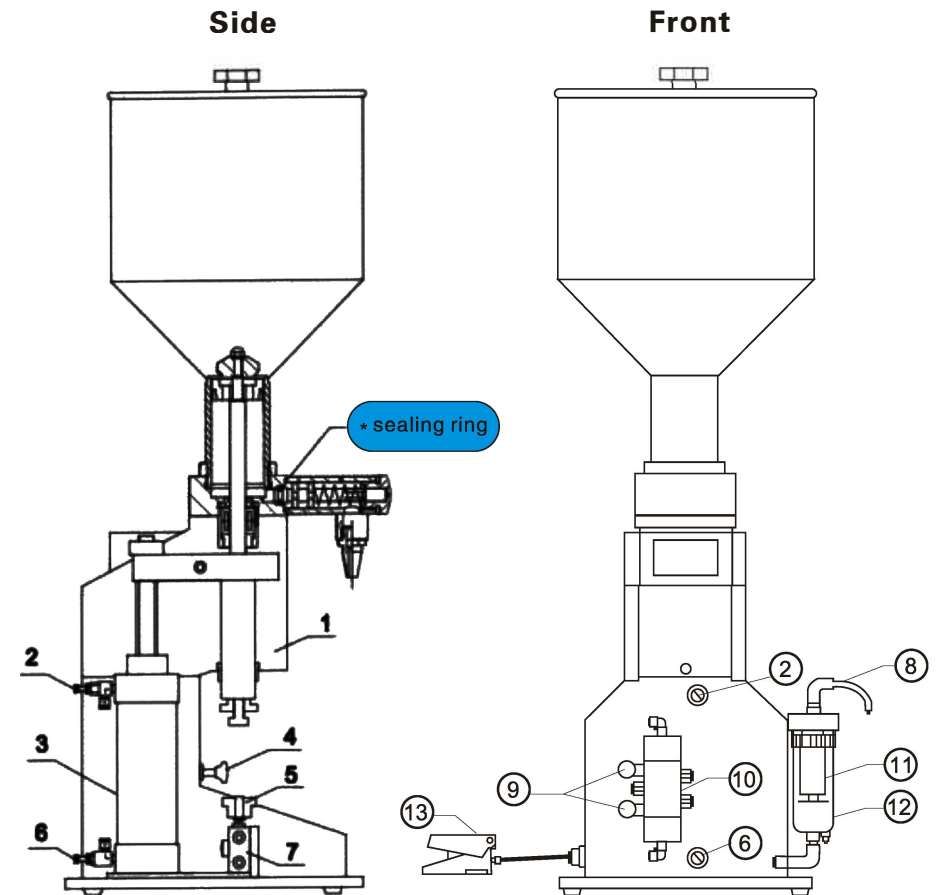
### HOW TO SET THE DISCHARGE QUANTITY

Picture B



## FMSA10 Internal

Picture A



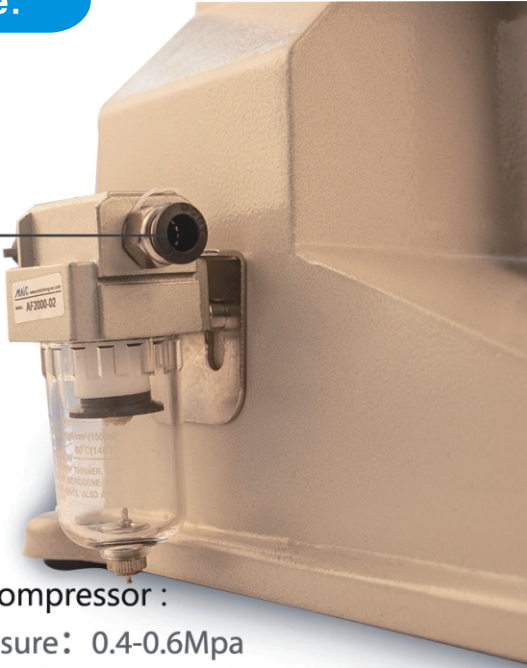
### PART

- |                       |                                   |
|-----------------------|-----------------------------------|
| 1. Guide rod          | 2. Speed controller for inlet     |
| 3. Measuring cylinder | 4. Automatic switch               |
| 5. Switch lever       | 6. Speed control valve for outlet |
| 7. Mechanical valve   | 8. Air inlet                      |
| 9. Air outlet         | 10. Pneumatic control valve       |
| 11. Fitter element    | 12. Fitter                        |
| 13. Pedal switch      |                                   |

\* Use a D12x3mm sealing ring here for filling liquid and use a D14x3mm for cream!

## How to Use:

**Air Inlet**



**Applicable air compressor :**  
**Working Air Pressure: 0.4-0.6Mpa**  
**Pneumatic control filling connection 8mm trachea,**  
**with oil and water separator**

Connect the machine to an air pump by using a  $\phi$  8mm pipe.  
Depresses the pedal switch to work in jog mode, and step on the pedal switch to work automatically.  
Use speed controller for inlet and outlet (Picture A.6) to adjust the filling speed, then adjust the filling volume:  
1. loosen the adjusting cap (Picture B.25),  
2. rotate the adjusting screw (Picture B.26) to adjust the discharge quantity.  
3. After adjusting to the required capacity, tighten the adjusting cap (Picture B.25).

When the machine leaves the factory, we usually set the speed to the maximum value.  
If you adjust the speed (Picture A 6) to the minimum, it still feels that the discharge speed is too fast  
You can open the back cover and continue to reduce the speed (6)

## Common Problems and Solutions:

1. Measure inaccuracies:
  - 1) There is sundries between the cone screw cover and piston ring  
Unpick and wash
  - 2) Piston ring overwears, loses tension and friction  
Replace piston rings
  - 3) The filling speed is unstable the materiel flow asymmetric  
Work in a constant speed
2. The discharge nozzle is leaking:
  - 1) The o-ring of the valve core is damaged  
Replace the o-ring
  - 2) There are sundries sticking to the o-ring  
which causes excessive suction of the material and damages the surface tension of the nozzle. Unpick and wash
3. After filling, the material is mixed with air bubbles:
  - 1) Too fast filling speed  
Reduce filling speed
  - 2) Failure of sealing ring inside sealing seat  
Replace
4. 12\*3 sealing rings shall be used for filling liquid (Picture A)
5. 14\*3 sealing rings shall be used for filling paste (Picture A)

## Maintenance:

1. The machine body is made from aluminum alloy, keep it clean in case of erosion.
2. Please lubricate the abscissa axis (14), segment gear (13) and the rack (11).
3. Please unpick and clean the machine before leave it unused for a long time.