

STPM-80 Automatic Tube Filling and Sealing Machine



The tube-feeding, filling, sealing, tube-trimming, serial number typing process is automatic operation. End products will be ejected from the eject funnel.

STPM-80: Use contact type heater to seal tube fatty. Suitable for soft plastic tubes, laminated plastic tubes, aluminum laminated tubes.

STPM-80A: Suitable for aluminum tubes.

ADVANTAGE:

1. display unit and PLC controls, easy for adjustment and operation. The man-machine interface can adjust the speed of the main drive motor, the step motor and the driving motor for the Mixer and required quantity.
2. Safety protection function: In case of any occurrence of the following: temperature too low, air pressure too low, the tubes to be filled are too high or too low, the safety door is opened, the motor torque is too high, insufficient filling volume inside a tube or the connected cartoning machine is out of order etc., a signal of the related failure will be sent to the LED display to inform the operator for correction, so that the sealing quality and production quantity can be controlled. The hopper is equipped with automatic mixer which helps the filling process to be more smoothly. Optional filling hopper with temperature and liquid level control function are available for selection.
3. Tubes packed in a box can be fed automatically onto the tube holders by a special feeding device. This machine is equipped with fast-speed tube feeding device and special cleaning device can be

controlled by a step motor with a photo-cell element for locating the accurate position of tubes; and the filling device.

4. Equipped with a safety device. If there so no tube available on the tube holder, no filling action will be made. If any tube is positioned too high or too low, the machine will stop. During the filling operation, the tubes can be lifted up and down.

5. The machine is equipped with a housing made of stainless steel to prevent from any contamination due to any peeling of any painting treatment.

6. Equipped with a safety acrylic hood for preventing from any danger of personnel injury or contamination by any foreign body for hygienic reason.

All machine parts contacting with the filling material are made of stainless steel SUS 316.

7. Equipped with a cam controller with 12 working stations. Fast speed, easy operation and low rate of failure. Change of working another tube size is easy without the need of any special tool. This machine is also suitable for sealing tubes in diameter 50mm.

8. Equipped with a contact type heater for fast heating process, therefore, low production cost and easy for maintenance. Besides, the filler sealed will not get damaged, such as any physical or chemical color or quality change.

9. Equipped with special designed filling nozzle to prevent contaminating the tube when filling. After one filling cycle is complete, the air blow device will blow the air to cut off any remaining filler, this a dripping (leakage) problem can be avoided.

10. Equipped with tube cutting device which is suitable for PE and plastic laminated soft tubes. This device will cut unnecessary parts and make the end product more perfect in appearance. The cutting pattern can be designed as customer's requirement.

SPECIFICATION:

| ITEM | DESCRIPTION |
|------------------|--|
| Filling hopper | Maximum volume: 65L E equipped with liquid level controller, with output signal of either a pneumatic or electric pump and double deck heating hopper for option |
| Filling cylinder | 3 sizes of filling cylinder are available: * 20Ø mm filling cylinder for filling 3~40cc volume * 45Ø mm filling cylinder for filling 20~200c volume * 61Ø mm filling cylinder for filling 30~330cc volume |
| Working station | Rotary working station, 12 stations, equipped with cam controller |
| Sealing device | STRONG Brand Sealing device |
| Speed | 30~70 pcs./min, depending on the tube diameter and filling volume |
| Main drive motor | 1 HP variable speed motor |
| Motor for mixer | 1/4 HP variable speed motor or 90W soeed regulating motor (for option) |
| Power supply | 220V x 1Px 50/60 HZ, internal transformer 220V x 3Px 50/60 HZ |
| Air supply | Pressure: 5~8 Kg/cm ² , Comsumption: 250l/min Equipped with water filter for compressed air |
| Dimension | 2250x 1450x 2200 m/m |
| Weight | N.W./ G.W.: 800/ 950 Kg |