

NF-60A Tube Filler and Sealer



This machine fill and seal ointment, cream jellies, toothpaste, lotion, jam and viscosity material, sealing or tail folding, batch number embossing (include manufacture date) automatically. It's ideal equipment for aluminum tube, plastic tube and laminated tube.

Principle:

Tube Filling and Sealing Machine is designed for Al tube, plastic tube and laminated tube filling and sealing for cosmetic, pharmacy, foodstuff and bond industries. Its working principle is:

The tubes in tube chamber vertically enter into the first-station tube holder one by one, and transferred together with the rotating turn plate to the second-station for I. Marking detection. The third station is for tube locating and reversal inspection (nitrogen jet tubes cleaning is optional). The material filling is in the fourth station and then come to the sealing(and tail bending) station for heating (PE tube) folding (metal tube), tail sealing (PE), clamping (metal), batch number printing, cooling, cutting and at last finished products discharging. Every tube should go through the whole procedure and then finished after filling and sealing.

The main structure of the machine is consisted of main transmission, feeding, rotation, tail sealing, filling and electricity control system.

Character:

1. With 9 stations and matching with manipulator, the machine is able to meet different type of tail folding, sealing requirements of aluminum tube, plastic tube and laminated tubes. It is a multi-purpose machine.
2. The whole procedure of tube feeding, I. marking, tube interior cleaning (optional), material filling, sealing (tail folding), batch number printing, finished products discharging can be performed automatically.
3. Servo control makes it precise and convenient to adjust the filling amount by touch screen.

4. According to the different length of the tube, height of tube chamber can be adjusted easily by motor. With external reversal feeding system, makes tube charging more convenient and tidy.
5. The mechanical linkage photo sensor precision tolerance is less than 0.2mm. The chromatic aberration scope between tube and I. mark is reduced.
6. Photo-electronic, electric, pneumatic integrative control is applied with the machine. No tube, no filling. It gives an alarm when low pressure occurs. The machine stops automatically if tube error or open the safety door.
7. Three-layer jacket instant heater with inside air heating, it won't damage the pattern on outer wall of tube and achieves firm and beautiful sealing effect.
8. The machine has a manipulator of five-fold and three-fold function and can achieve double-sides code print that greatly improves the product quality and the grade of machine.
9. High-grade liquid crystal display controller matching with buttons for operation that can easily control the stepless speed regulator, parameter setting, constant statistic, pressure instruction and trouble display. The operation is simple and reasonable.

Parameter:

- Suitable for: plastic composite pipe and plastic composite pipe
- Operating speed: 60/min (max)
- Filling volume: 5-250ml
- Filling accuracy: $\leq \pm 1\%$
- Suitable hose length: 50-210mm
- Suitable for hose diameter: $\Phi 10-50\text{mm}$