



## *Rotary Cup Filling and Sealing Machine for Juice, Water, Sauce, Oil, Cream, Sauce*



The machine can deliver the cups automatically. The sealing film is pre-cut film or film in roll; the high automatically machine can improve the product efficiency, reduce the manual operation step, improve the sanitary condition when produce. This machine is with mature and reliable design, with good stability.

The machine goes step by step, each step with one line mould. Produce capacity is up to 800-1000 cups per hour.

The rotary cup filling and sealing machine have the function as follows:

1. Automatic load the cup;
2. Quantitative Filling
3. Put the seal film;
4. Sealing;
5. Press plastic lid (optional)
6. Output

### **Compose parts:**

1. Drive and rotary table system. Including rotary stepper system (driven motor/reduction gear/transmission), location device, stainless steel rotary table, cups mould, etc. Use the electronic speed controller to achieve stepless speed regulating.
2. Auto load the cups system. It controlled by the pneumatic device. Adopt bevel wedge type filling cup device.
3. Quantitative filling system. Including tank, liquid level control system, pneumatic control filling valve, pneumatic filling metering piston.

4. Pick and put the seal film system. Including film save part, move cylinder, scraper, rotary alex, turntable device. The scraper will pick the seal film under the control of the cylinder, and rotary 180 degree to put the film onto the cup.
5. Sealing system. Including heating and constant temperature control parts, temperature sensor, sealing part frame, cup holder part, hot seal board, pneumatic sealing part.
6. Auto delivery out the cups by stand up. Including the raise and pull device.
7. Elector-pneumatic control system. With alarm system and urgent stop system.
8. Pneumatic system. Including pneumatic triple pieces, electric control reversing valve, protection switch, gas circuit and connectors.
9. The frame is steel which handled by anti-rust and coated with stainless steel. Rotary table and cups mould are with high quality stainless steel, with good rot proofness. Sealing parts are with Alloy/cooper material, coated with Teflon material, the other parts are all with food grade stainless steel material.

### **Technology parameters:**

- Produce capacity: 1000 cup/hr.
- Filling range: 100-1000ml
- Sealing reject ratio: less than 1%
- Total power: about 1kw
- Electric consume: about 0.7kw
- Electricity: 1N-PN-50Hz 220V
- Outer size: 1200mm×1200mm×1500mm
- Total weight: About 480kg
- Air pressure:  $\geq 0.60\text{Mpa}$
- Air flow:  $\geq 0.3\text{m}^3/\text{min}$
- Air clean level: The air need to filter by Oil and water filters