

Six Item Automatic Paper Cup Capping & Sealing Machine Scheme And Price

Video Presentation: <https://www.dasanjiang.biz/videos/#packaging>

The automatic paper cup capping and sealing machine is an automatic packaging equipment specially designed for automatic capping and sealing of paper cups. It has simple operation, stable performance and easy maintenance. It can be used as a stand-alone machine, or connected to the production line with related equipment such as sachet and fork dispensers.

Basic functions and parameters

The movement style of this machine is step-by-step, and each time a single row of template is moved, each row is with 6 holes (refer to the drawing for the cup size). The production capacity is about 110 cups per minute.

This machine has the functions of automatic noodle block placement, automatic turnover of the cupped noodle block, automatic sealing film placement, automatic sealing, automatic cup delivery to subsequent conveyor belts, etc.

Working power supply: 380V/50HZ (three-phase four-wire), power: about 20KW

Compress air pressure: 0.6-0.8Mpa, machine air consumption: about 1.2 cubic meters per minute

The length of the main unit is about 11 meters, and the length of the whole line is about 17 meters.

Basic Structure

This equipment consists of the following parts:

1. Rack: Made of carbon steel (anti-rust treatment), the body is covered with a 304 stainless steel shell.
2. Automatic noodle capping: the noodle blocks from the air cooler (6 noodle blocks in a row are neatly arranged with uniform spacing) enter the noodle feeding conveyor belt through the slide plate, and are pushed to the noodle capping device through the noodle pusher. The cup adding mechanism places the paper cup on the noodle block, clamps it by the cup clamping device, then turns it over (180 degrees), aligns with the template hole below, and releases the cup clamping device, so that the paper cups with the noodle blocks are placed in the hole of the template.
3. Cup sucking device: It is composed of installation structure, blocking rod, cup storage bin, cup dividing device, cup sucking device, etc. The cup dividing device is controlled by a cylinder.
4. Docking station: Reserve a certain space (about 5 meters) to dock the sachet dispenser and semi-automatic fork dispenser.
5. Capping film adding device: It consists of installation structure, rotating device, lifting device, storage cover bin, sucking tray, etc. Automatic detection of noodle block - no noodle block no film will be added.
6. Sealing device: It is composed of pulling rod, crank, lifting device, electric heating tube, balance pressure spring, heat sealing head, etc. Automatic detection of film - no film no sealing.
7. Rejection of defective products: automatically remove defective products from the conveyor belt.

8. Automatic cup delivery: Automatically lift the sealed cup and transfer it to the subsequent conveyor belt.

9. Transmission device: It is composed of motor, reducer, cam divider, transmission sprocket, chain, etc. The whole machine adopts rocker arm crank mechanical linkage.

10. Pneumatic-electric control system: It consists of PLC program controller, touch screen, intake pressure reducing valve, electromagnetic control valve, pneumatic components, temperature control meter, low-voltage electrical components, etc.

3. Basic configuration:

Motor: ABB

Cam Splitter: Mai Gu

PLC: Mitsubishi

Touch Screen: Mitsubishi

Thermostat: Omron

Aluminum Row Chain: Japan Tsubaki Chain

Low Voltage Appliances: Schneider

Stainless Steel: China

After-sale service

One-year equipment warranty period (the warranty period is 12 months from the date of completion of equipment commissioning or 13 months from the date of equipment shipment, whichever comes first). Consumables, wearing parts, force majeure factors and human damage are not covered by the warranty.

Note: We reserve the right to change systems, components, configurations and technical parameters. Regarding equipment configuration, performance parameters and other matters, the technical appendix attached to the formal contract signed by both parties shall prevail.