

Plastic Bottle Cartoning Packaging Machine



HDS120 automatic cartoning packing machine has the function of putting the blister products or other products and leaflet into one box synchronously. The machine has the ability of folding leaflet, coding batch number, putting blister package or pillow package into box and stacking. It has high efficiency and good quality. The whole working process is controlled by PLC, photoelectric monitor, transducer, and wording display. If there is any problem during the working process, the machine can stop automatically and display reasons so that the problem can be solved in time.

This machine is mainly used for pharmaceutical, nutrition food, food and other industry, such as put the blister and soap into the box. It also can be linked with other machines and has a widely usage.

Requirement and parameter

1) Requirement of leaflet

Selection of paper : 52~62g/m² (reference : GB/T451.2-1989 paper and board -Determination of grammage) offset paper (reference : GB/T1012-1991 offset paper) ;
Size range : limit deviation of diagonal \pm 1mm (reference : GB/T451.1-1989 paper and board -Determination of grammage) ;
Max paper size 200 \times 160mm (L \times W)
Min paper size 160 \times 100mm (L \times W)
Limit deviation of paper thickness \pm 2 μ m (reference : GB/T451.3-1989 paper and board -Determination of thickness) ;
Direction of paper fiber and paper folding should keep vertical (reference : GB/452.1-1989 paper and board-Determination of horizontal and vertical) ;

Storage condition of leaflet : (reference : GB/462-1989 paper and board storage and transportation)

Temperature $25^{\circ}\text{C}\pm 2^{\circ}\text{C}$; Relative humidity $\leq 60\%$;

Make sure the paper neat, without edge and crimping

2) Requirement of box

Selection of box : $250\sim 350\text{g}/\text{m}^2$ (reference : GB/T451.2-1989 paper and board -Determination of grammage)

White cardboard (Wood pulp board) (reference : GB/T3523-1999 White cardboard) ;

Dimension :

- Max box size : $170\times 150\times 45\text{mm}$ (L×W×H)
- Min box size : $75\times 45\times 15\text{mm}$ (L×W×H) ;

Limit deviation for the paper thickness $\pm 5\mu\text{m}$ (reference : GB/T451.3-1989 paper and board -Determination of thickness) ;

Storage and preservation conditions for the box :

Temperature $25^{\circ}\text{C}\pm 2^{\circ}\text{C}$; Relative humidity $\leq 60\%$;

Design the diagram according to the machine box needs, all the box are have lock(or sealing with glue), all the production process are machine-made, for example : laser cutting plate, machine cutting, machine punching, machine folding, box sticking, make sure the paper neat, without edge and crimping.

3) Main parameter

Power : AC380 50Hz three-phase five-wire

Max power consumption : 2.0kW (single match)

Folding speed : Max100page/min

Production capacity : Machine running speed : Max 90box/min

Air consumption : $0.2\sim 0.3\text{m}^3/\text{min}$ (pressure $0.5\sim 0.7\text{MPa}$)

Machine size : $1300\times 970\times 1600\text{mm}$ (L×W×H)

Weight : About 900kg (machine)

Noise : Max 80dB

Working principle

Machine realize carton sucking, carton unfolding, leaflet sucking and folding, material transportation, carton packing, batch lot printing, carton sealing and other process automatically through series of accurate gear transmission, cam transmission and accurate roller chain transmission.