

Zhoushan Jinqi Food Machinery Co., LTD

KL48GZA Particle filling machine

Equipment

Itroduction



**Honesty for this, the first behave,
then work**

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1. Scope of application and performance characteristics

This equipment is a general quantitative cup metering filling machine, suitable for filling grain, beans and other small grain materials in the food industry.

This equipment adopts single quantitative cup with fixed volume, pull type switch valve, good sealing performance, equipped with no tank and not open valve device and other safety protection device. The equipment is easy to operate, smooth operation, high production efficiency, wide range of application, the external surface and the parts contacting with the material are 304 stainless steel material, the feeding part and the metering part can be washed with water, which meet the requirements of food hygiene.

The equipment is driven by variable frequency speed control motor with grade adjustable production capacity and equipped with automatic butter filling system to facilitate refueling and lubrication of the equipment.

2. Main specifications and technical parameters

Production capacity: 200-650can / min

Filling heads: 48

Applicable tank height: 55-150mm

Applicable tank diameter: Φ 52- Φ 83

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Compressed air: 0.4 Mpa

Main motor power: 3 KW

Total weight: 2,000 kg

Overall dimensions: 2,320 X 2170X 1750mm

3. Main structure and transmission principle

1. Transmission part

After the variable frequency and speed regulating motor, the large gear and the spindle are driven by the active gear through the worm gear reducer, and the main shaft drives the tank tray and the loading and unloading plate to rotate. At the same time, the large gear drives the tank star wheel and sends the tank screw through the pinion gear and the universal coupling.

The conveyor belt of the inlet and outlet tank is directly driven by the worm gear reducer.

2. Measurement part

The measuring cup is composed of single volume cup and pull type switch valve, and the filling volume is adjusted by replacing the measuring cup with different inner diameter. The material to be filled is added to the material bucket and falls into the measuring cup by weight. When the upper and lower material plate rotates, the material bucket brushes the material above each measuring cup close to the loading plate.

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3. Filling part

Empty tank first by the conveyor into the tank, into the tank screw into a certain interval, again by the tank into the star wheel to the tank rotating plate, when the empty tank with the tank rotation after close switch, close switch signal to electric control valve, make the cylinder, make pumping valve roller into the orbit of the cam, pull type outward, the material in the measuring cup under the hopper into the empty tank. Then, the pull valve closes the valve cam section and enters the charging section, and then cycle for the next metering operation.



4. Electrical configuration

A. Touch-screen: Siemens	B. PLC: Siemens
C. Frequency converter: sine	D. proximity switch: Yifu door
E. Switch power supply: Ming Wei	F. Relay: Omron

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G. Circuit breaker: Chint	H. Pressure reducing valve: Yadke
I. Power switch: Chint	J. Contactor: Chint
K. Three-phase motor: Luan Xinshun	L. Pneumatic butterfly valve: the square valve
M. Cylinder: Yade passenger	N. Solenoid valve: Yarker
O. Photoelectric switch: Bergafu	

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