



## ***Fully Automatic Granule Packing Machinery SGB+SGJ-ZF***



### **Full Automatic Granule Packing Machinery Introduction**

This full automatic granular packing unit is a perfect combination of SGB vertical packaging machine and SGJ-ZF six-hopper weighing machine, which can realize whole process automation from weighing and filling to bag making and packaging. High speed and precision improve yield and reduce the artificial for customers, ideal equipment for packaging kinds of granular material such as rice, sugar, sesame, wheat, corn seeds, soybean, monosodium glutamate, essence of chicken, etc.

### **Significant Characteristics of Full Automatic Granule Packing Equipment**

1. Driver core of the packing equipment is constituted by the PLC program control, servo power systems, pneumatic actuator system, excellent performance, easy operation.
2. LED touch screen man-machine interface, can complete multiple functions of product counting, date printing, Nitrogen inflator (exhaust), end product conveying, etc during the process from weighing to bag-making and packaging.
3. By the touch screen to set and modification of packaging parameters, 10 types of different products packing parameter can be saved, customers can use at any time without the need for resetting.
4. Different kinds of bags can be made by the full automatic granule packing machinery like pillow bag, angular bag, hand bag, perforated bag and continuous bags.
5. Adopts sever motor drawing film and horizontal sealing, the machinery work stable.
6. Fiber identification, signal transmission and encoder conformation are applied in this packing unit which improve the precision.

### **Full Automatic Granular Packing Equipment Working Process**

The full automatic granular packing equipment consists of seven parts which are bucket elevator, six-hopper weighing machine, working platform, vertical bag-making packing machine, finished product conveyor, Nitrogen generator and Air compressor. The whole process of this packing unit is as follow:

Raw materials → hoist and transport → store in storage silo → weighing and filling → bag-making, sealing and packing → output the end product → counting and binning

## **Detailed Information of Full Automatic Granule Packing Machinery Structure**

### 1. Bucket elevator

- 1) Feed smoothly and the start and stop controlled by the material level
- 2) Hoist capacity  $\geq 5T/h$
- 3) A little of broken materials are allowed.
- 4) The material of tipping bucket is non-poisonous plastics.
- 5) The shell of the hoister is made of carbon steel with spraying plastics on the surface or 304 stainless steel.

### 2. SGJ-ZF Six hopper weighing machine

- 1) 0.5m<sup>3</sup>storage silo (equipped with control switches of material level).
- 2) Weighing range: 50g -5000g
- 3) Weighing accuracy:  $\pm 2 -15g$
- 4) Weighing speed: 12-50 time/min
- 5) Material: 304 stainless steel

### 3. SGB Vertical packing machine

- 1) Drive mode: pneumatic and servo motor
- 2) Operation interface: 7" LCD
- 3) Control system: PLC programming device (Siemens)
- 4) Signal transmission: optical fiber
- 5) Operation interface: menu with English and Chinese
- 6) Heating mode: controllable temperature controller
- 7) Sealing method: heat seal (constant temperature)
- 8) Sealing type: serration with strip lines or knurled patterns
- 9) Notch form: serration form or flat form
- 10) Print method of date: coding machine
- 11) Materials of packing film: PE+PET composite film
- 12) Bag-making range: 50-490\*80-375 mm (L×W)
- 13) Noise of the machinery:  $\leq 60Pa$
- 14) Packing speed: 12-50 time/min

### 4. Supporting platform

- 1) Function: support the scale body, maintenance and so on.
- 2) Materials: carbon steel with spraying plastics on the surface.

### 5. 2 meter End Products Output Machinery: Strap type or scraper type conveyor

### 6. Nitrogen generator

- 1) Nitrogen source are provided by customers themselves.
- 2) Function: against corrosion, broken and so on.

### 7. Air compressor: Air source pressure: 0.6Mpa