

**GD-8-200K**

**Bag Given Packaging Machine**

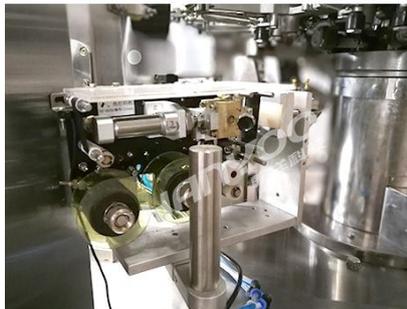


**设备技术文件**

**南京翰洋智能设备有限公司**  
NANJING HANYOO PHARMATECH CO., LTD.



# GD-8-200K Bag Given Packaging Machine



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## OVERVIEW

Bag given packaging machine replaces of manual packing type, which helps large enterprises, small and medium-sized enterprises reach to packaging automation, equipment mechanical grip will automatically take bag, print date, open the bag, to the metering device signal measurement and blanking, sealing, output. Main optional configuration for measuring material filling

machine working platform, weight, scale, material hoist, vibrating feeder, finished goods transport hoisting machine, metal detection machine, etc.

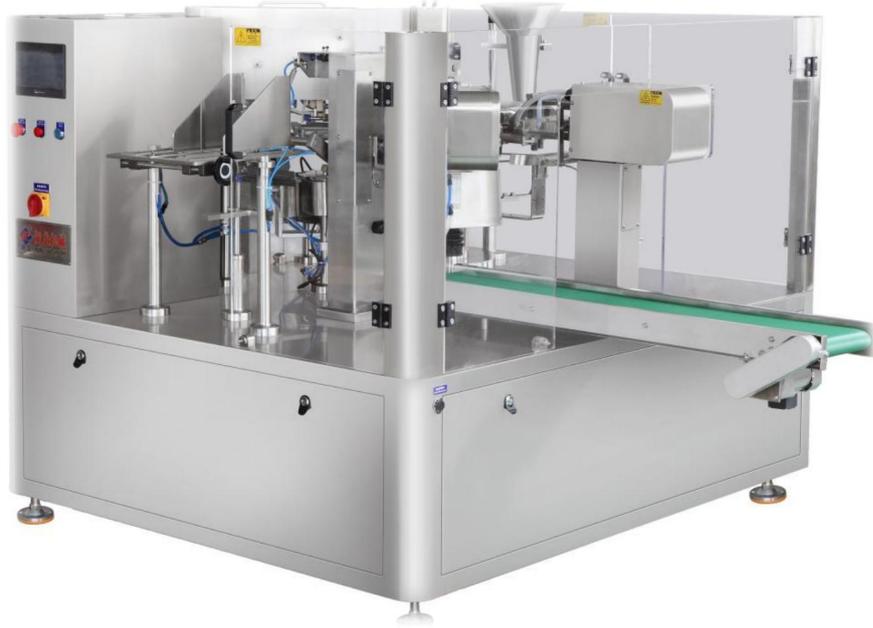
It adopts Japan's latest technology, under the total control system of PLC + POD, adopt mechanical structure, operation gradually replaced the operation of the pneumatic structure, to form a greater demands of the processing technology, easy operation, stable operation, maintenance, easy to clean, beautiful appearance..

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## **PERFORMANCE AND FEATURE OF MACHINE**

1. Rapid change of the specifications of the bag, bag width can be automatically adjusted by one button.
2. Single shaft and the CAM design: packing speed faster; more stable operation ; maintenance easier and reduce defective rate.
3. Modular heating, temperature control more accurate, heating fault have alarm prompt.
4. Advanced design idea, reduce the material loss, ensure the stability of equipment operation, extend the operating life of the equipment.
5. Simple and convenient operation, adopts the advanced PLC + POD (touch screen) electric control system and man-machine interface.
6. Machine have wide packaging range , it can packaging : liquid, paste, granule, powder, solid various bagging materials only. According to the different material with different metering device.
7. Machine use preformed bags & packaging design is perfect & good sealing quality to improve the quality and grade of the product.

## APPEARANCE AND VERTICAL VIEW OF MACHINE



**Bag Type**

- |   |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
| 1   | 2   | 3   | 4   | 5  | 6   | 7   |
|  |  |  |  |  |  |  |
| 平袋  | 自立袋   | 自封袋   | 自封袋   | 折边自封袋  | 不规则封口袋  | 不规则袋  |

## PARAMETER OF MACHINE

MODEL	GD-8-200K	GD-8-260K	GD-8-320K	GD-8-350K	GD-8-400K
<b>Packing Material</b>	3-side, four edge-sealing bag, self-reliance bag, handbag, spout bags, zipper bag, compound bag, etc				
<b>Packaging</b>	GD-8-200K : 适合袋宽 W : 80-220mm;H:≤380mm GD-8-260K : 适合袋宽 W : 140-260mm;H:≤450mm GD-8-320K : 适合袋宽 W : 180-320mm;H:≤450mm GD-8-350K : 适合袋宽 W : 200-350mm;;H:≤450mm GD-8-400K : 适合袋宽 W : 260-400mm;/H:≤550mm				
<b>Filling Range</b>	≤1KG				
<b>Filling range</b>	≤1000g	≤2000g	≤3000g	≤3000g	≤5000g
<b>Design speed</b>	60-70bag/min	≤50bag/min	≤40bag/min	≤40bag/min	≤30bag/min
<b>Packaging Speed</b>	10-60bag/min ( The speed is determined by the product itself and the filling volume )				
<b>Measurement Average Accuracy</b>	≤±1				
<b>Total Power</b>	3.5KW				
<b>Work Flow</b>	giving bag→coding →opening →filling 1 →filling 2→ auxiliary→ exhaust →heat sealing→ .forming and output product				
<b>Dimensions</b>	1780×1420×1480mm ( L×W×H )				
<b>Applicable Scope</b>	1. Block material: bean curd cake, fish, eggs, candy, red jujube, cereal, chocolate, biscuit, peanut, etc 2. Granular type: crystal monosodium glutamate, granular drug, capsule, seeds, chemicals, sugar, chicken essence, melon seeds, nut, pesticide, fertilizer 3. Powder type: milk powder, glucose, monosodium glutamate, seasoning, washing powder, chemical materials, fine white sugar, pesticide, fertilizer, etc 4. Liquid/paste type: detergent, rice wine, soy sauce, rice vinegar, fruit juice, beverage, tomato sauce, peanut butter, jam, chili sauce, bean paste 5. Class of pickles, pickled cabbage, kimchi, pickled cabbage, radish, etc 6. Other bagging materials				
<b>Main Standard Parts</b>	1. Code printer 2. PLC control system 3. Bag opening device 4. Vibration device 5. Cylinder 6. Electromagnetic valve 7. Temperature controller 8. Vacuum pump 9. Inverter 10. Output system				

## CONFIGURATION LIST

NO.	NAME	Specifications and models	Brand	Remark
1	Display screen		Willen	
2	PLC	SIMATIC S7-200 CPU ST60	Siemens	
		SIMATIC S7-200 EM DT08	Siemens	
3	inverter	ATV310HU15N4A	Schneider Electric SEEA	
4	vacuum pump	RX-25 型	china	
5	Composite engineering bearing	JUM02-25;GFM1214-20;JFM1012-02	igus	
6	cylinder	C85N16-20 等	SMC	
		CQ2A50-45	SMC	
7	Oil and water filter	GFR300008	AirTAC	

NO.	NAME	Specifications and models	Brand	Remark
8	Vacuum filter	GFR200008	AirTAC	
9	Digital press switch	N01	AirTAC	
11	Electromagnetic valve	SY5120-5G-01	SMC	
12	Temperature controller	XMTG-3410V	Asiantime International Construction	
13	Coder		SWEBOARD	
14	Air-switch	OSMC32N3C32	Schneider Electric SEEA	
		OSMC32N1C20	Schneider Electric SEEA	
		OSMC32N1C10	Schneider Electric SEEA	
15	solid-state relay	RWA-40A400	Schneider Electric SEEA	

NO.	NAME	Specifications and models	Brand	Remark
16	AC contractor	LC1E1810M5N	Schneider Electric SEEA	
17	detector switch	TL-Q5M	OMRON	
		EE670A		
18	Bearing	UCF208;UCP204;UCPH204	Wafang Store	
		IJK5203;6905;6011;6003	LYC	
		Imported bearing 5203	IJK	
		Imported bearing CF12	IKD	
19	Code printer	Custom machine	China	
20	Reduction box	Custom machine 1.1KW	China	
21	Dividing box	Custom machine DS83-6L	China	

## MACHINE RUNNING STRUCTURE

PARTS	FUNCTION	EXPLAIN	PICTURE
Chassis – drive	Drive the machine running	Uni-axial + CAM design, more stable operation, maintenance easier	
Chassis-gas circuit	On bag, Open bag	Clear differentiation, maintenance more easy and convenient	
Rotary table	The turntable rotation movement, realizes various locations ability	304 stainless steel CAM design, reduce the fault, extend machine life	 

PARTS	FUNCTION	EXPLAIN	PICTURE
Bag storage	get bag from bag storage place	The hand-wheel automatically adjustable	
Machine clip ( 260s )		New machine clamp, Gear control machine clamp opening size	
Machine clip ( 200 )		New machine clamp, 304 stainless steel precision casting line cutting processing with igus bearing	
Slit pocket	Open bag		
Hang bag	Opening track guide	Open the bag to ensure the material smoothly	

PARTS	FUNCTION	EXPLAIN	PICTURE
<p>Overall appearance for the bag filling turntable</p>		<p>Machine table accessories all adopts 304 stainless steel material, high performance waterproof</p>	
<p>Electrical box</p>		<p>Siemens PLC+display screen, programmed by professional Siemens engineers, with clean and clear wiring, and clear identification of point and line numbers</p>	

## LOCATION FUNCTION AND OPERATION FLOW CHART

- 1.giving bag
2. Coding
- 3.opening
- 4.filling 1
5. Filling 2
6. Auxiliary
7. Heat sealing
- 8.forming and output product

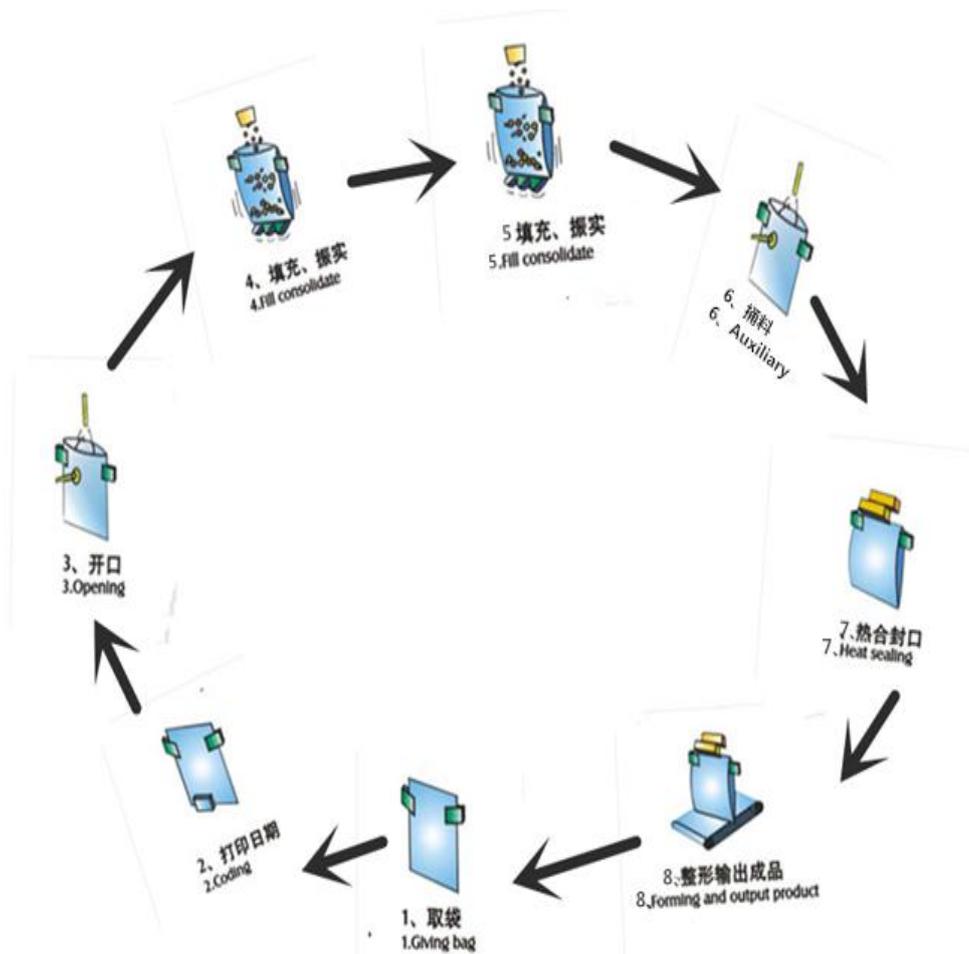


Figure: Machine workstation operation flowchart

## ADDITIONAL LOCATION FUNCTION

According to the bag specifications and form, combined with the production material, corresponding to choose the following additional features used in the machine:

1. 5 stations tong material (cylinder tong material, suitable for use of liquidity is not high and twice raw material adding)
2. 6 stations tong (cantilever barrels of material)
3. The exhaust (applicable to eliminate gas needed materials)
4. Under vibration (also called bag vibrate, applicable to material block or large material)
5. Level bags (applicable to zipper bags and soft bag)
6. Open the zipper bag (applicable to zipper bag)
7. Close zipper (applicable to zipper bag)
8. The open bag (applicable to zipper bag and not easy to open the bag)
9. Hopper vibration (applicable to low liquidity material)
10. Sweep dust and dust (applicable to powder)

## ASSOCIATED EQUIPMENT

### **1. The elevator:**

Z hoist, baffle hoist, hoist of large dip Angle, single bucket elevator, screw hoist, bowl type hoist, etc

### **2. The dose and filling machine:**

Combination called contraction, cup, screw, filling machine, pickles, counting number machine, etc

### **3. The work platform**

### **4. The finished product conveyor**

## associated adopts (normal)

1. puffed food: host + platform + combination according to hoist
2. powder: host + screw hoist + screw said
3. grain: host + screw hoist + screw said (tiny particles)

Host ++ platform + combination hoist said (large particle)

4. sour pickled cabbage: host + hoist + pickles machine filling machine (liquid are used, can choose)

Host + platform + combination according to hoist + filling machine (liquid are used, can choose)

5. pickle: host + pickles machine + promotion + filling machine, filling machine (liquid are used, can choose)

Host cup + contraction hoisting machine, filling machine and filling machine (liquid are used, can choose)

6. pickles: host + platform + electronic scale hoist filling machine

Host + bowl type hoisting machine, filling machine (semi-automatic, artificial feeding)

**(this form a complete set for the two kinds of material mixing, two feeding, example: Qing Shui Sun si, pickled peppers lotus root zone, etc.)**

7. liquid, paste, host + filling machine
8. bag of bag: host + damper winding machine



# **HANYOO**

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