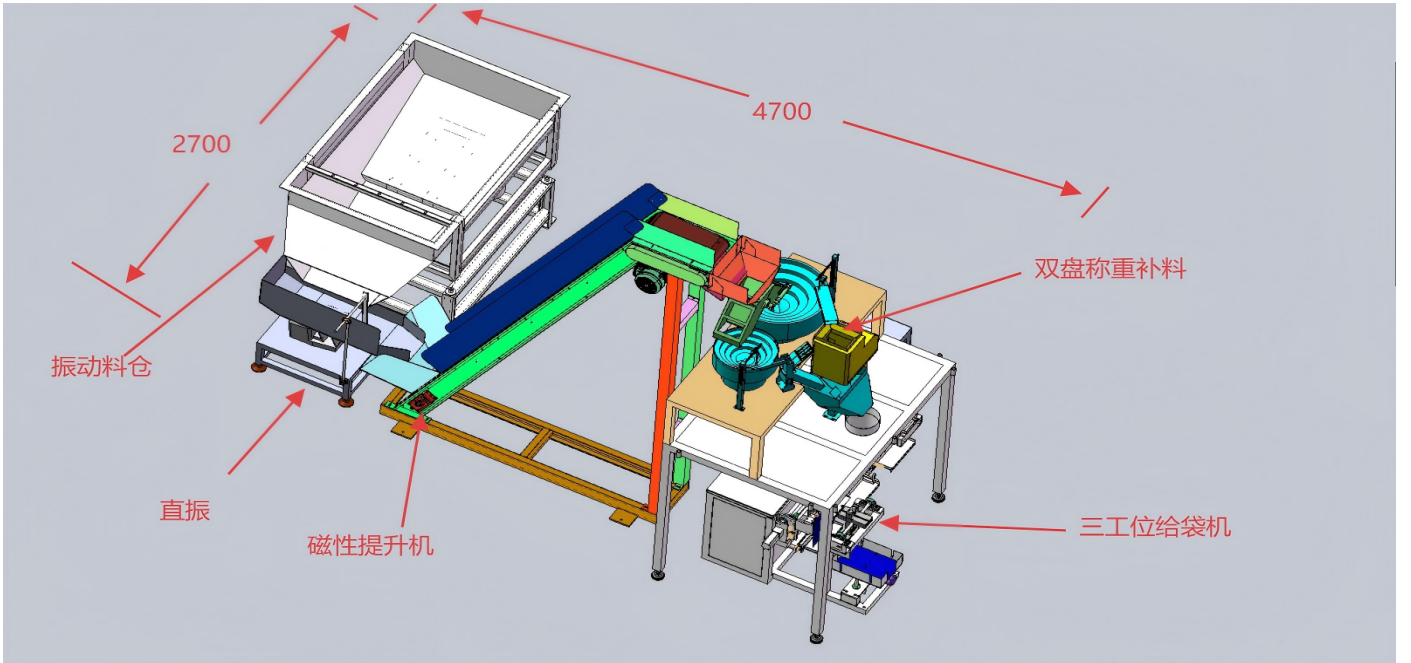
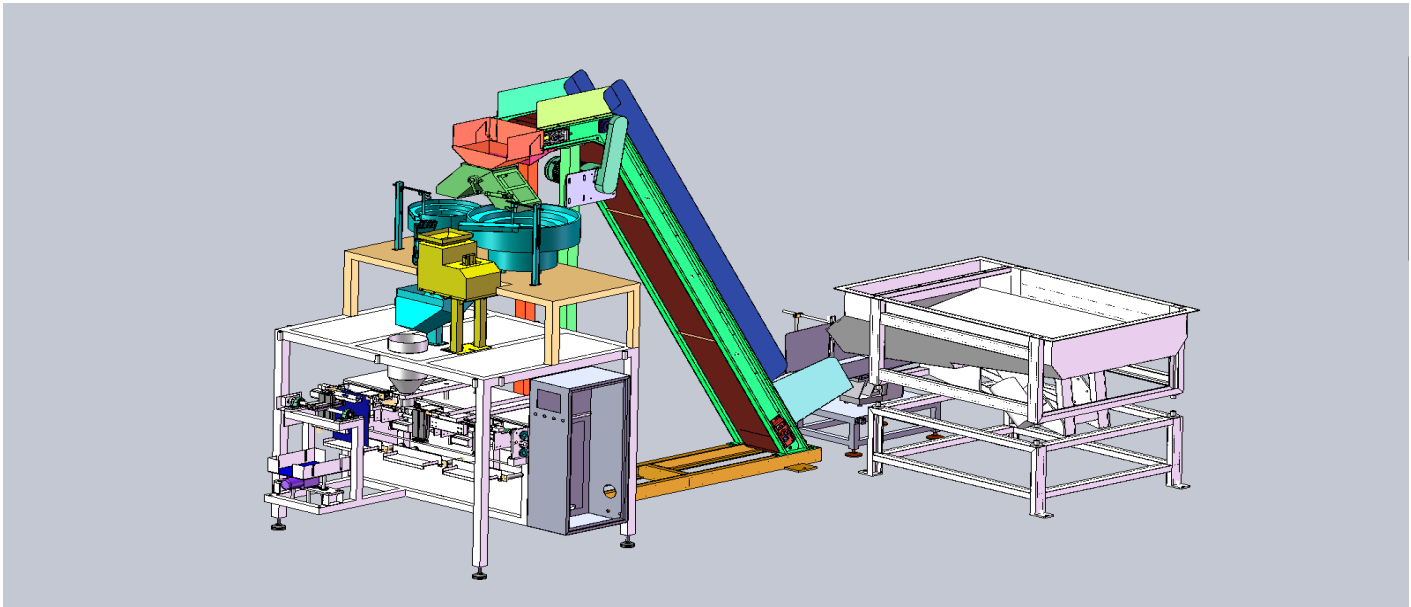


### FG-200 Fully Automatic Nail Weighing and Packaging Machine

#### Equipment Overview



The fully automatic nail packaging machine is a specialized automated system designed for packaging pre-made bags with high appearance quality requirements. Through multiple working stations, it completes a series of operations such as bag opening, printing, filling, and sealing. It is suitable for packaging various granular materials.

## 1. Features and Performance

- Equipped with multiple automatic diagnostic, alarm, and safety protection functions to ensure operator safety and minimize material loss.
- Optional remote diagnostic system allows rapid troubleshooting.
- Optional automatic lubrication system extends machine life and reduces labor costs.
- Optional one-key clamping system enables quick adjustment based on bag width.
- All components are manufactured with strict quality control and use internationally renowned brands.
- Each machine complies with international safety and hygiene standards, passing numerous safety, environmental, physical, and functional tests.
- Elegant design, easy operation, stable performance, and low failure rate.

## 2. Technical Parameters

Item	FG-200
Packaging Speed	3-8 bags/min (depending on film quality, material type, and weight)
Bag Size	(L) 100-300 mm, (W) 80-230 mm (230*300mm)
Bag Type	Pre-made pouch, stand-up pouch, four-side-seal bag
Weighing Range	100 g - 2 kg
Weighing Accuracy	$\leq \pm 2-5$ g (depending on measuring device and material)
Nail length	10 mm-100mm
Bag thickness	0.2mm
Packaging Materials	BOPP/CPP, PET/AL/PE, and other heat-sealable laminates
Sealing Type	Heating sealing and open-zipper
Working Stations	① Bag feeding → ② Date printing → ③ Bag opening → ④ Filling → ⑤ Vibration → ⑥ Transition → ⑦ Heat sealing → ⑧ Shaping & output
Air Consumption	0.8 MPa 0.3 m <sup>3</sup> /min
Total Power / Voltage	2.5 kW 220 V 50/60 Hz
Air Compressor Requirement	$\geq 1$ m <sup>3</sup>
Machine Weight	500 kg

### 3. Additional Characteristics

- Rapid bag-size change with one-key automatic width adjustment.
- Modular heating design ensures precise temperature control and fault alarm.
- Advanced design reduces packaging material waste, improves operational stability, and extends service life.
- Easy operation with advanced PLC + POD (touch-screen) control and user-friendly HMI.
- Wide application range—suitable for liquid, paste, granule, powder, or solid materials, simply by changing the dosing system.
- Uses pre-made bags with perfect printing and sealing quality, enhancing product appearance and grade.

### 4. Purpose

The pre-made pouch packaging machine delivers high-quality, aesthetically pleasing sealing with efficient, stable performance. It ensures long-term reliable operation, convenient cleaning through waterproof design, and a fully automatic packaging process without manual operation—significantly improving production efficiency, saving labor and management costs, and reducing total expenses.

## The main parts description

### Single-Head Electronic Weigher

#### Features and Performance

- Combines high accuracy and high speed; the computer instantly selects the best weight combination.
- High-precision digital load cell ensures accurate measurement.
- Multi-language LCD operation system (Chinese/English).
- IP65 waterproof and dustproof stainless-steel structure; fully enclosed design prevents material accumulation and simplifies cleaning.
- Adjustable hopper-door speed to prevent material breakage or jamming.
- Powerful data statistics function records total packs, qualification rate, and single-bag deviation per batch.
- Optional devices: embossed hopper, collecting hopper, printer, and rejector for out-of-tolerance packs.
- Strong compatibility—can be directly mounted above the packaging machine for compact layout.
- Saves raw material and labor cost with fast return on investment.

#### Technical Parameters

Item	Specification
Weighing Range	100 – 2000 g
Accuracy	≤ ± 2–5 g (depending on material size)
Max. Speed	3–8 packs/min
Hopper Volume	5 L
Control Panel	7" touch screen
Product Presets	99 types
Power Supply	220 V / 50/60 Hz / 10 A 1100 W
Weight	250 kg

## Magnetic Lifting Conveyor (with Vibrating Hopper)

### Features and Performance

This elevator is suitable for vertical conveying of granular materials in industries such as grain, food, feed, and chemical. Driven by chain transmission, the buckets elevate materials vertically. It features large capacity, high lifting height, and stable operation.

### Technical Parameters

Item	Specification
Lifting Height	3 m
Lifting Speed	0 – 17 m/min
Lifting Capacity	9 m <sup>3</sup> /h
Total Power	370 W
Voltage	380 V / 50 Hz
Structure	Hopper size customizable per customer; contact parts made of food-grade plastic
Vibrating Hopper Volume	1 ton