

TCA PACK

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**INTELLIGENCE REDEFINES
PACKAGING FUTURE**

SHANDONG TCA INTELLIGENT TECHNOLOGY CO., LTD.

PRODUCT CENTER

FULLY AUTOMATIC GRANULE PACKAGING MACHINE

EQUIPMENT INTRODUCTION

- ▶ This automatic weighing and packaging system includes:
 1. Vibrating unloading Z-shaped material lifting equipment
 2. Computerized combined weighing equipment
 3. Automatic vertical packaging equipment
 4. Working platform
 5. Finished product conveying equipment
- ▶ Key Features and Performance: Fully automatic processing includes raw material feeding, weighing, bagging, inflation/deflation, date printing, and finished product delivery. Highly accurate and efficient, the system eliminates material breakage.
- ▶ Applications: Suitable for automated packaging of irregularly shaped and granular items, such as puffed foods, potato chips, rice crackers, jelly, candy, pistachios, apple slices, dumplings, biscuits, dried fruits, melon seeds, roasted nuts, glutinous rice balls, medicinal herbs, and frozen foods.



TECHNICAL PARAMETERS

Model	KL-420
Making bag size	(L)60-300mm(w)60-200mm
Packing Speed	30-80 bags/min
Power supply	220V/50Hz
Measuring accuracy	≤±1%
Packing material	OPP、PE、PVC、OPP/PP、OPP/PE、PET/VMPET/PE
Compressed air consumption	6Kg/m ³
Air consumption	0.3m ³ /min
Roll film size	Outer diameter D≤Φ300mm , Inner diameter D=74mm
Weight	1000kg
Dimension	L4600*W2000*H3600mm

FULLY AUTOMATIC LARGE PARTICLE PRODUCT WEIGHING BAG MAKING AND PACKAGING EQUIPMENT



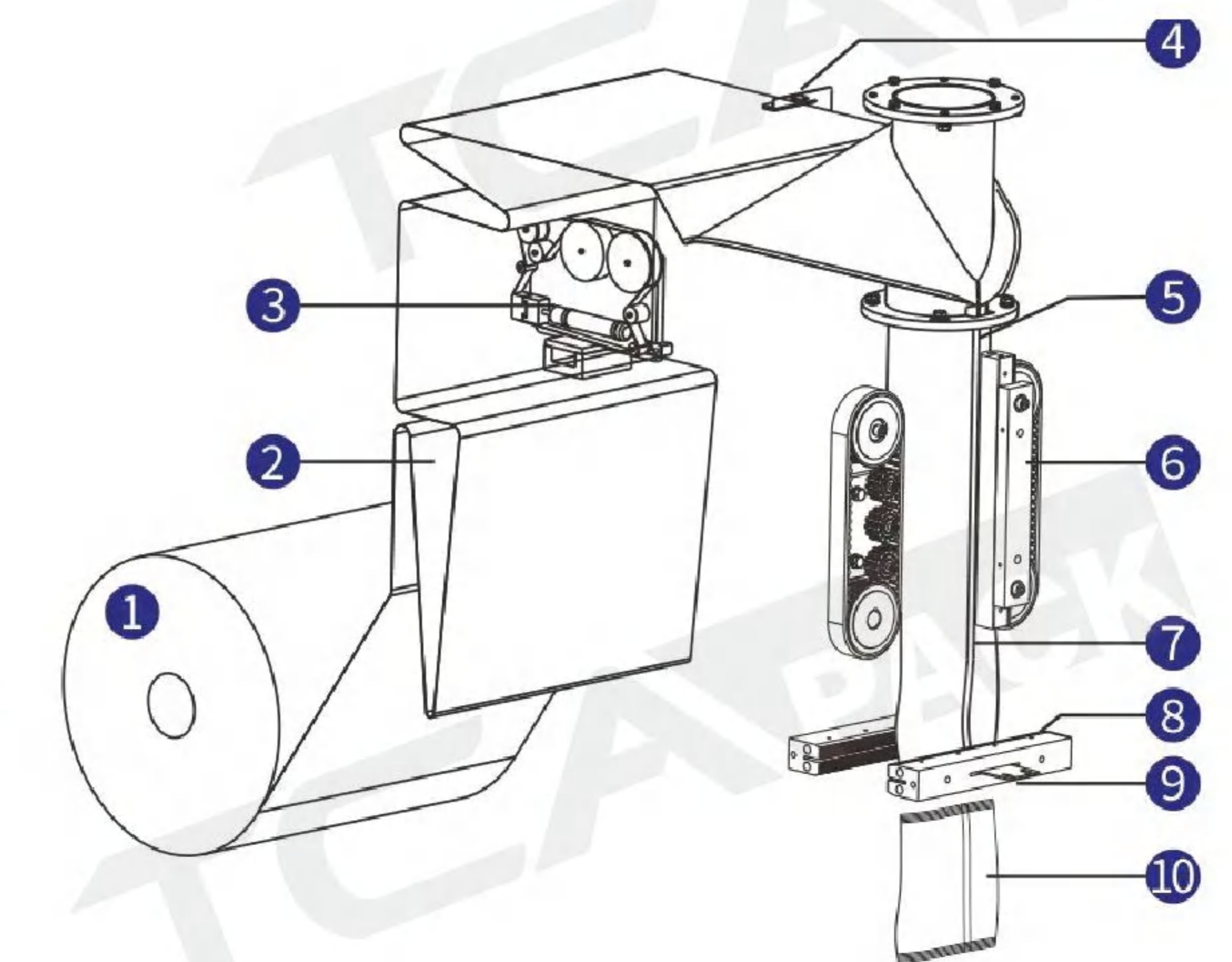
▶ One-piece automatic weighing and packaging machine



▶ Automatic weighing and packaging machine

PROCESS FLOW CHART

- | | |
|-------------------------------|----------------------------|
| 1 FILM | 6 VERTICAL SEAL |
| 2 GUIDE TENSIONER | 7 FILLING |
| 3 CODING STATION | 8 HORIZONTAL SEAL |
| 4 COLOR MARK TRACKING STATION | 9 CUT |
| 5 FORMING | 10 FINISHED PRODUCT OUTPUT |



BAG FORMERS Back seal types chart



FULLY AUTOMATIC SMALL PARTICLE PRODUCT WEIGHING BAG MAKING AND PACKAGING EQUIPMENT

FULLY AUTOMATIC LARGE PARTICLE PRODUCT WEIGHING BAG MAKING AND PACKAGING EQUIPMENT



EQUIPMENT INTRODUCTION

- ▶ **This automatic weighing and packaging system includes:**
 1. Vibrating unloading Z-shaped material elevator
 2. 4-hopper weighing system
 3. Automatic vertical packaging system
 4. Work platform
 5. Finished product conveyor
- ▶ **Main Performance and Structural Features:**
This fully automatically completes the entire process from raw material feeding, weighing and metering, filling and bagging, inflating/deflating, date printing, to finished product delivery. It offers high metering accuracy, high efficiency, and no material breakage.
- ▶ **Applications:**
Suitable for packaging fine granular materials, laundry detergent, water spirits, and seasoning powder.



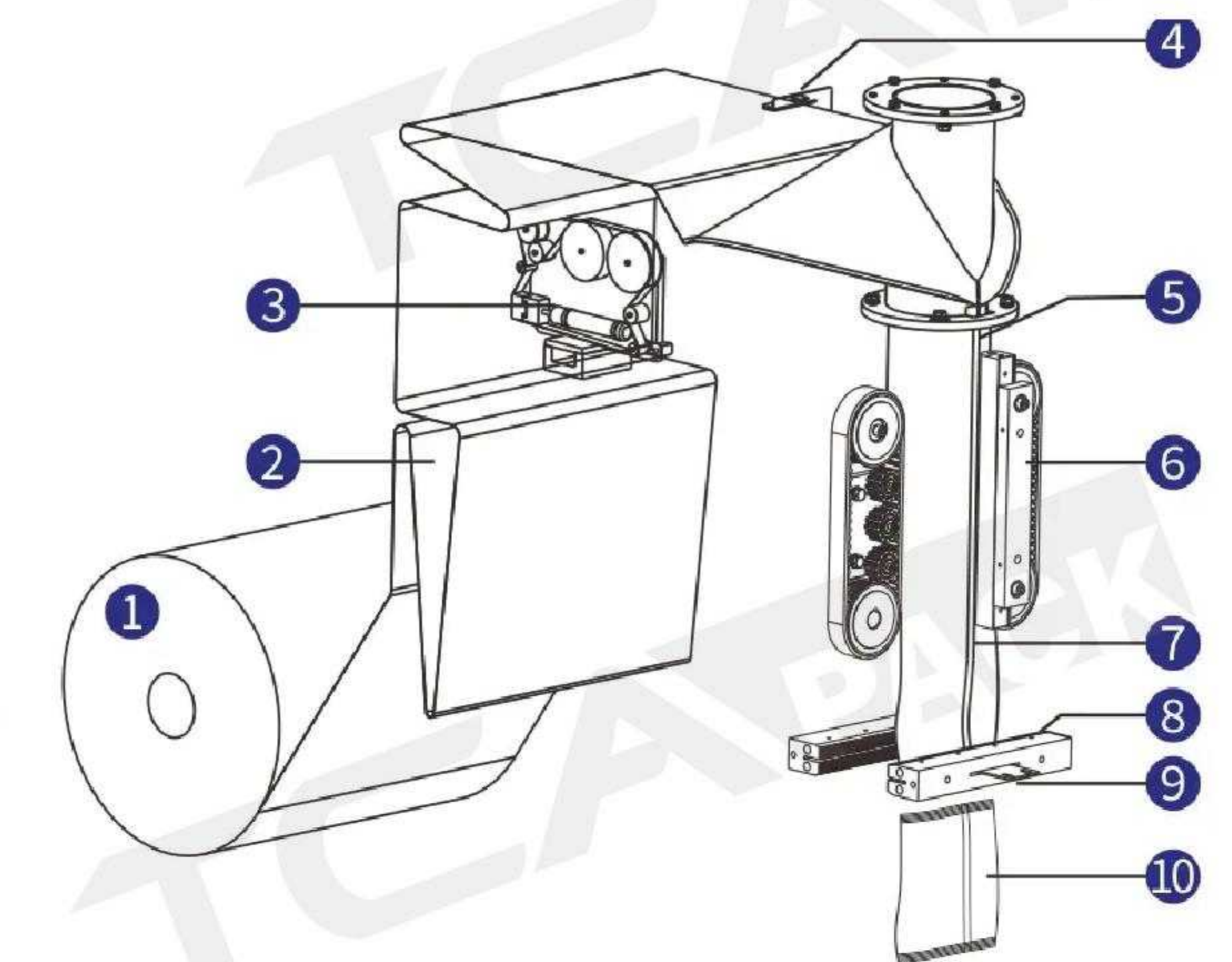
▲ Fully automatic measuring cup weighing packaging machine



▲ Full automatic linear scale weighing and packing machine

PROCESS FLOW CHART

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BAG FORMERS Back seal types chart



TECHNICAL PARAMETERS

Model	KL-420
Making bag size	(L)60-300mm(w)60-200mm
Packing Speed	30-80 bags/min
Power supply	220V/50Hz
Measuring accuracy	≤±1%
Packing material	OPP、PE、PVC、OPP/CPP、OPP/PE、PET/VMPET/PE
Compressed air consumption	6Kg/m ³
Air consumption	0.3m ³ /min
Roll film size	Outer diameter D≤Φ300mm , Inner diameter D=74mm
Weight	1000kg
Dimension	L4600*W2000*H3600mm

FULLY AUTOMATIC POWDER PRODUCT QUANTITATIVE BAG MAKING AND PACKAGING EQUIPMENT

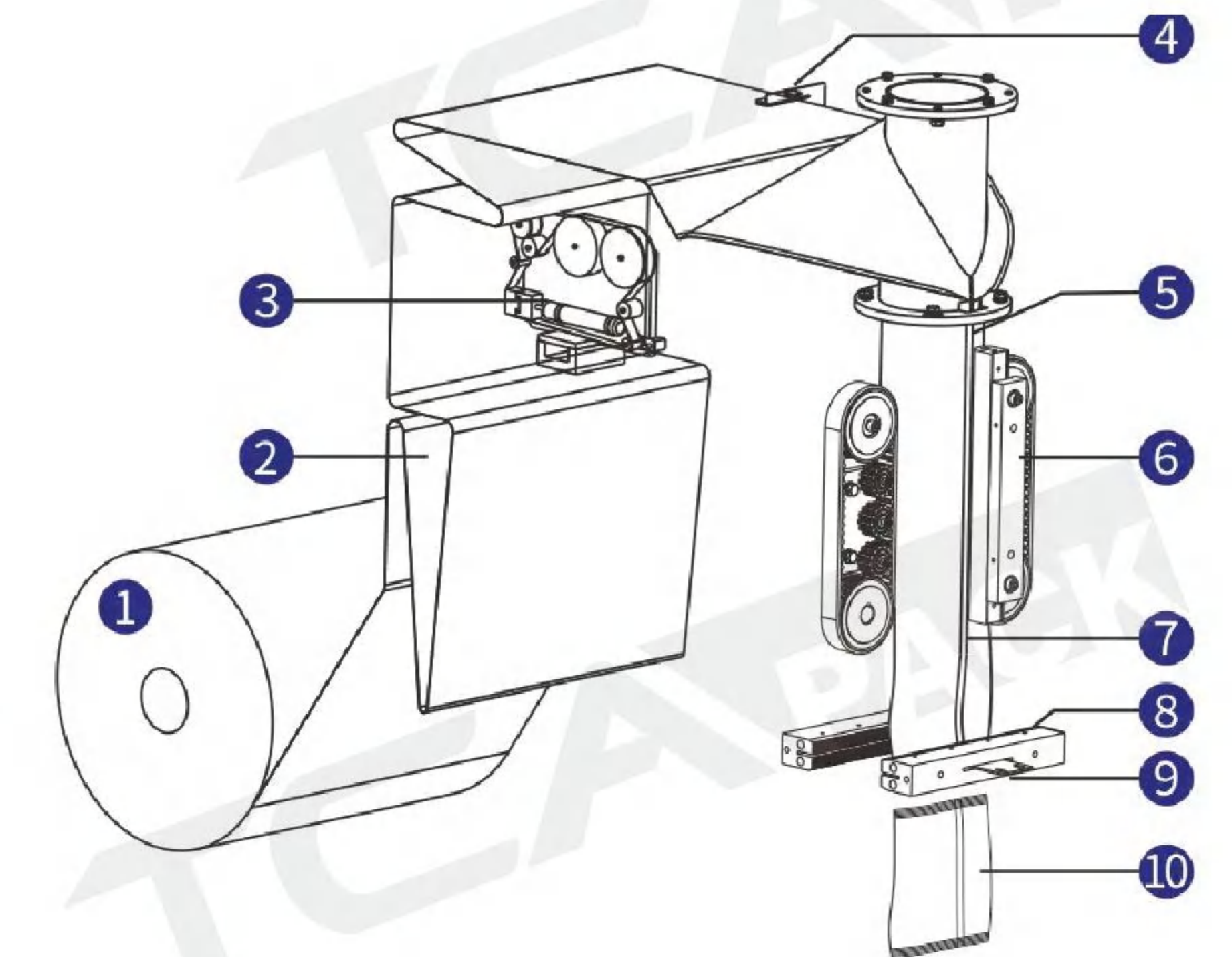
EQUIPMENT INTRODUCTION

- ▶ **Application:**
Suitable for packaging powdered and granular materials such as milk powder, solid beverages, sugar, glucose coffee, feed, solid medicines, powdered and granular additives, dyes, etc.
- ▶ **Main Performance and Structural Features:**
 1. Equipped with safety protection, it meets corporate safety management requirements.
 2. Utilizing an intelligent temperature controller, it provides precise temperature control, ensuring a beautiful and smooth seal.
 3. Its core drive control system, including a PLC servo system, pneumatic control system, and large touch screen display, maximizes the machine's control accuracy, reliability, and intelligence.
 4. The touch screen can store packaging process parameters for various products, allowing for immediate access when changing products without resetting.
 5. A fault display system provides prompt troubleshooting.
 6. Customizable shapes include pillow-shaped bags and punched-hole bags.



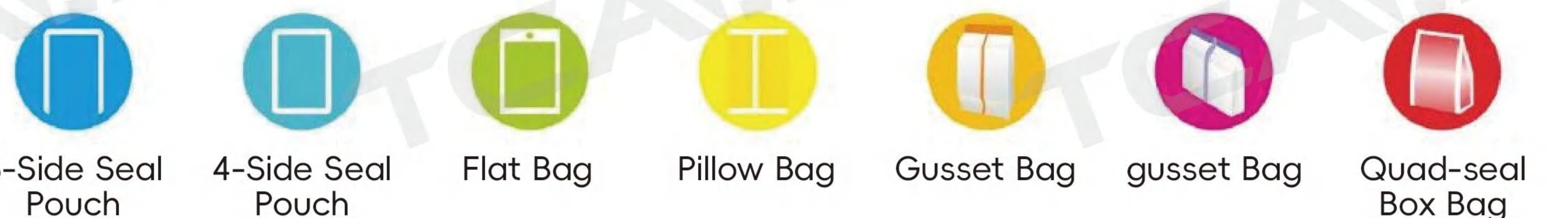
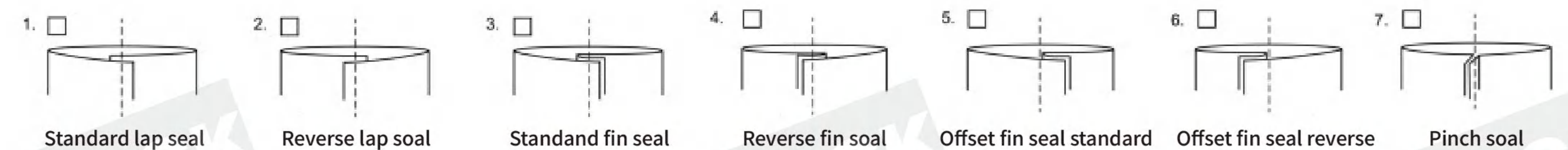
PROCESS FLOW CHART

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BAG FORMERS

Back seal types chart



TECHNICAL PARAMETERS

Model	KL-320S	KL-520S
Measure method	Screw quantitative	Screw quantitative
Making bag size	(L) 60-200mm (W) 50-150mm	(L) 60-320mm (W) 80-250mm
Filling weight	10-5000g Replace different mold accessories	
Packaging precision	≤1%	
Packaging speed	20-80 bags/min	
Power Supply	Three phase 380/220V 50/60Hz / 3-5Kw	
Compressed air consumption	6-8kg/m ²	
Air consumption	0.3m ³ /min	
Weight	400KG	400KG
Dimension	L1665*W1161*H2291	L1665*W1161*H2291

FULLY AUTOMATIC QUANTITATIVE BAG MAKING AND PACKAGING EQUIPMENT FOR LIQUID/PASTE PRODUCTS



EQUIPMENT INTRODUCTION

This packaging machine is widely used in the food, pharmaceutical, and chemical industries for automated quantitative packaging of various fillings, including red bean paste, lotus seed paste, fish paste, fruit paste, winter melon paste, fruit sauces, peanut butter, chili sauce, salad dressing, cheese, soy sauce, liquor, peanut oil, mineral water, and liquid medicines, as well as non-food detergents, grease, and other fluid and semi-fluid products. This packaging machine can package a variety of materials. The bag length is adjustable. For packaging multiple sizes and varying bag widths, multiple formers can be configured to suit the bag size and weight. The packaging machine also offers optional material transfer pumps, making it particularly suitable for automated quantitative filling and packaging of items at high temperatures. This effectively improves production efficiency and prevents secondary contamination caused by bacterial invasion. It can be integrated with our cooling water troughs, shaping and drying machines, loaders, conveyor belts, and other production line equipment to save time and enhance overall efficiency.

TECHNICAL PARAMETERS

Model	KL-600
Making bag size	(L) 150-480mm (W) 100-250mm
Film width	220-560mm
Packing materia	OPP, PE, PVC, OPP / CPP, OPP / PE, PET / VMPET/PE
Packing speed	4-15 bags/min
Packing volume	Max.5000cc
Sealing type	back sealing
Power supply	AC 380V 50Hz
Power	4.5Kw
Air pressure	0.6Mpa
Air consumption	0.006m ³ /min
Dimension	L4200mm*W1100mm*H1587mm
Weight	720Kg



Liquid/paste vertical packaging machine

EQUIPMENT INTRODUCTION

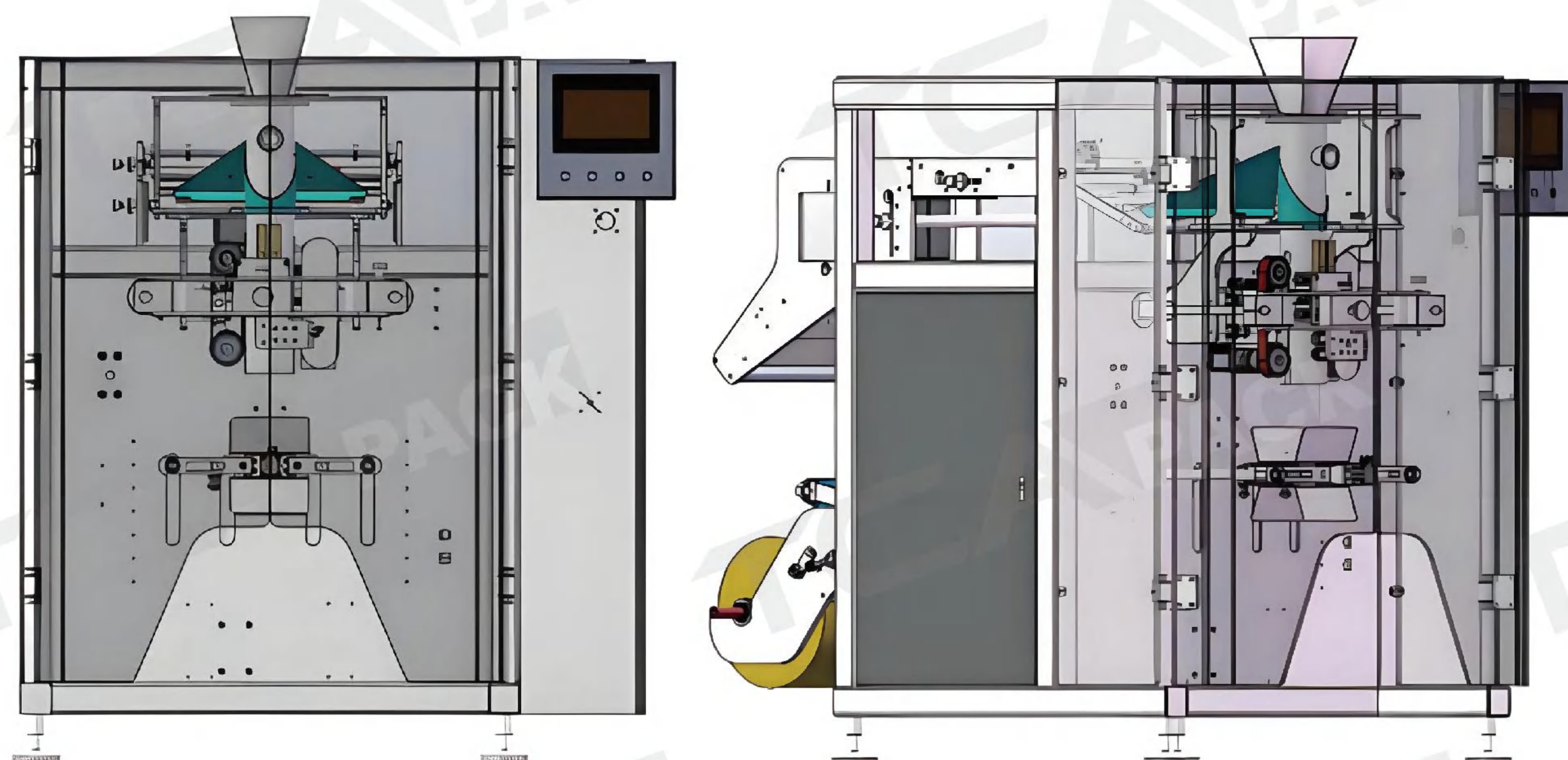
This vertical bag-making fully automatic packaging machine can complete bag making, metering, filling, filling, coding, bag cutting and other tasks. It is suitable for automatic packaging of liquid/paste products in daily chemical, food, health care and other industries. For example: enzyme drinks, energy supplements, soy sauce, vinegar, hot pot base, peanut butter, shampoo, shower gel, seasoning, jam, etc.



TECHNICAL PARAMETERS

Model	Three-side seal liquid/semi-liquid
Measure method	Pneumatic piston pump,servo piston pump, peristaltic pump, Haiba pump, etc
Making bag size	(L) 60-300 (W) 50-200mm
Filling weight	10-5000g
Packaging precision	≤±1%
Packaging speed	15-80 bags/min
Power supply	220V/50Hz
Pressure	6Kg/m ²
Air consumption	0.3m ³ /min
weight	300Kg
Dimension	L1800*W1050*H2850mm

FULLY AUTOMATIC HIGH-SPEED VERTICAL BAG MAKING AND PACKAGING MACHINE



High-speed machine front

Left side of high-speed machine

EQUIPMENT INTRODUCTION

Application:

Widely used in food, medicine, chemical industry, agriculture, hardware, toys

Features:

1. This equipment is suitable for food, pharmaceutical, chemical, agricultural, hardware, and toy products. Made of 304 stainless steel, it complies with GMP standards and national safety and hygiene standards.
2. Color PLC touchscreen control system with English and Chinese interfaces.
3. Automatic diagnosis and alarm functions ensure rapid problem detection and resolution.
4. Advanced design, attractive appearance, stable performance, and low failure rate.
5. High speed, high efficiency, and disassembly for easy cleaning, adjustment, operation, and maintenance.

TECHNICAL PARAMETERS

Model	KL-200G
Packing Speed	30-150 bags/min
Making bag size	(L)80-400 mm(W)100-200 mm
Film width	220-420 mm
Air consumption	0.05-0.15m ³
Power supply	3P 380V 50Hz 6.5 Kw
Dimension	L2250*W1600*H2000mm

AUTOMATIC VERTICAL BAG MAKING SERIES PACKAGING EQUIPMENT TECHNICAL PARAMETERS



TECHNICAL PARAMETERS

Model	KL-320	KL-420
Making bag size	(L)60-250mm(w)50-150mm	(L)60-300mm(W)60-200mm
Packing Speed	40-100 bags/min	35-80 bags/min
Power Supply	220V, 50/60Hz,3.0 Kw	220V,50/60Hz,3.0Kw
Compressed air consumption	6-8 kg/m ³	6-8 kg/m ³
Air consumption	0.3 m ³ /min	0.3 m ³ /min
Weight	300Kg	350 kg
Dimension	L1400*W1000*H1200 mm	L1650*W1100*H1500mm
Model	KL-520	KL-620
Making bag size	(L)80-350mm(w)80-250mm	(L)100-400mm(w)100-300mm
Packing Speed	30-80 bags/min	30-70 bags/min
Power Supply	220V, 50/60Hz,4 KW	220V,50/60Hz,4KW
Compressed air consumption	6-8 kg/m ³	6-8 kg/m ³
Air consumption	0.3 m ³ /min	0.3 m ³ /min
Weight	350Kg	400kg
Dimension	L1650*W1200*H1600mm	L1800*W1300*H1750mm
Model	KL-820	KL-1250
Making bag size	(L)120-500mm(W)120-400mm	(L)150-800mm(w)150-600mm
Packing Speed	20-60 bags/min	5-30 bags/min
Power Supply	220V50/60Hz,4Kw	220V,50/60Hz, 5Kw
Compressed air consumption	6-8 kg/m ³	6-8 kg/m ³
Air consumption	0.3 m ³ /min	0.3 m ³ /min
Weight	450Kg	500kg
Dimension	L2050*W1600*H2050mm	L2128*W2057*H2385mm

TF-350PE TUBE FILM PACKAGING MACHINE

EQUIPMENT INTRODUCTION

Application Industries:

Baked goods, cheese, coffee, tea, fruits, vegetables, industrial parts, meat, poultry, office supplies, express packaging, pet food, retail packaging, accessories, automotive parts fasteners, household goods, pet supplies, toys, etc.



Raw Plastic film type:

tube film, special good to PE tube film

Features:

- 1.Using eco-friendly polyethylene (PE) film , low cost.
- 2.No back sealing and No Former shoulder need ,easy to operate and maintain.
- 3.Smaller machine for big bag(max bag width 350x500mm),save space.
- 4.PLC and Touch Screenincluding, more user friendly.
- 5.Can integrate with printers, labelers, weighing machines,and feeding devices and conveyors for maximizing automation.



Finished bags:

Pillow bag without Back sealing

TECHNICAL PARAMETERS

Model	TF-350
Machine frame	304 SUS304
Touch Screen	7 inch Color displayed
Languages	Multiple languages:English/Chinese/specify before ordering
Type of film	Tube film
Film Thickness	30~120um
Finished bag size	(L)80~500(W)80~350mm
Speed	4-15 bags/min
Air consumption	6Mpa
Air consumption	0.3m'/min
Voltage	AC220V, 700W
Net weight	165kg
Machine dimension	L1045*W1075*H1130mm

FULLY AUTOMATIC SINGLE-STATION BAG PACKAGING EQUIPMENT



Optional metering devices

- Powder metering devices
- Electronic weighing devices
- Liquid/paste metering devices

Optional function devices

- Online weighing devices

EQUIPMENT INTRODUCTION

Application Industries:

Suitable for packaging food, chemicals, hardware, etc. For example: instant drinks, snack foods, milk powder, condiments, coffee beans, copper parts, etc.

TECHNICAL PARAMETERS

Packaging workflow:

This machine automatically completes the packaging process of bag feeding, bag opening, dust prevention,filling, sealingproduct output,etc.The process flow can be subdivided into: ①Take the bag → ② open the bag → ③ open the bag and test → ④ dustproof → ⑤ filling → ⑥ top seal → ⑦ product output(discharge)

Technical parameter	Parametervalues
Making bag size	(L)80-300(W)100-400mm
Bag type	Flat bag,zipperbag,M type bag
Packing speed	10bags/min
Net weight	350kg
Temperature	5-35°C
Relative humidity	<85%
Pressure	220V AC
Air pressure	0.6-0.8Mpa
Air consumption	0.5m ³ /min

Note: The actual working environment should be determined according to the characteristics of the packaging material.

FULLY AUTOMATIC ROTARY BAG FEEDING MACHINE PACKAGING SERIES



Automatic granule product weighing and packaging equipment for pre made bags

EQUIPMENT INTRODUCTION

Machine Performance and Applications:

1. Bag Application: Suitable for pre-made bags made from single-layer PE, PE composites, CPP composites, aluminum foil, and other multi-layer composite films.

2. Bag Shape: Flat bags, stand-up pouches, M-shaped bags, zipper bags, tote bags, pot bags, etc.

Scope of Application:

A. Granules: Crystallized MSG, chicken essence, medication-like products, capsules, seeds, sugar, melon seeds, nuts, feed, etc.

B. Powders: Seasoning powder, milk powder, glucose, coffee, laundry detergent, etc.

C. Liquids and sauces: Laundry detergent, jam, broad bean paste, soybean paste, noodle sauce, hot pot base, soy sauce, vinegar, etc.

D. Pickles: Pickled mustard greens, kimchi, sauerkraut, mustard tuber, mushroom sauce, etc.

E. Snacks: Nuts, melon seeds, nuts, candy, red dates, preserved fruits, dried tofu, fish, etc.

F. Instant Meals: Dehydrated vegetables, scented tea, dried mushrooms, etc.

G. Frozen Foods: Dumplings, glutinous rice balls, hot pot meatballs, chicken wings, chicken legs, etc.

TECHNICAL PARAMETERS

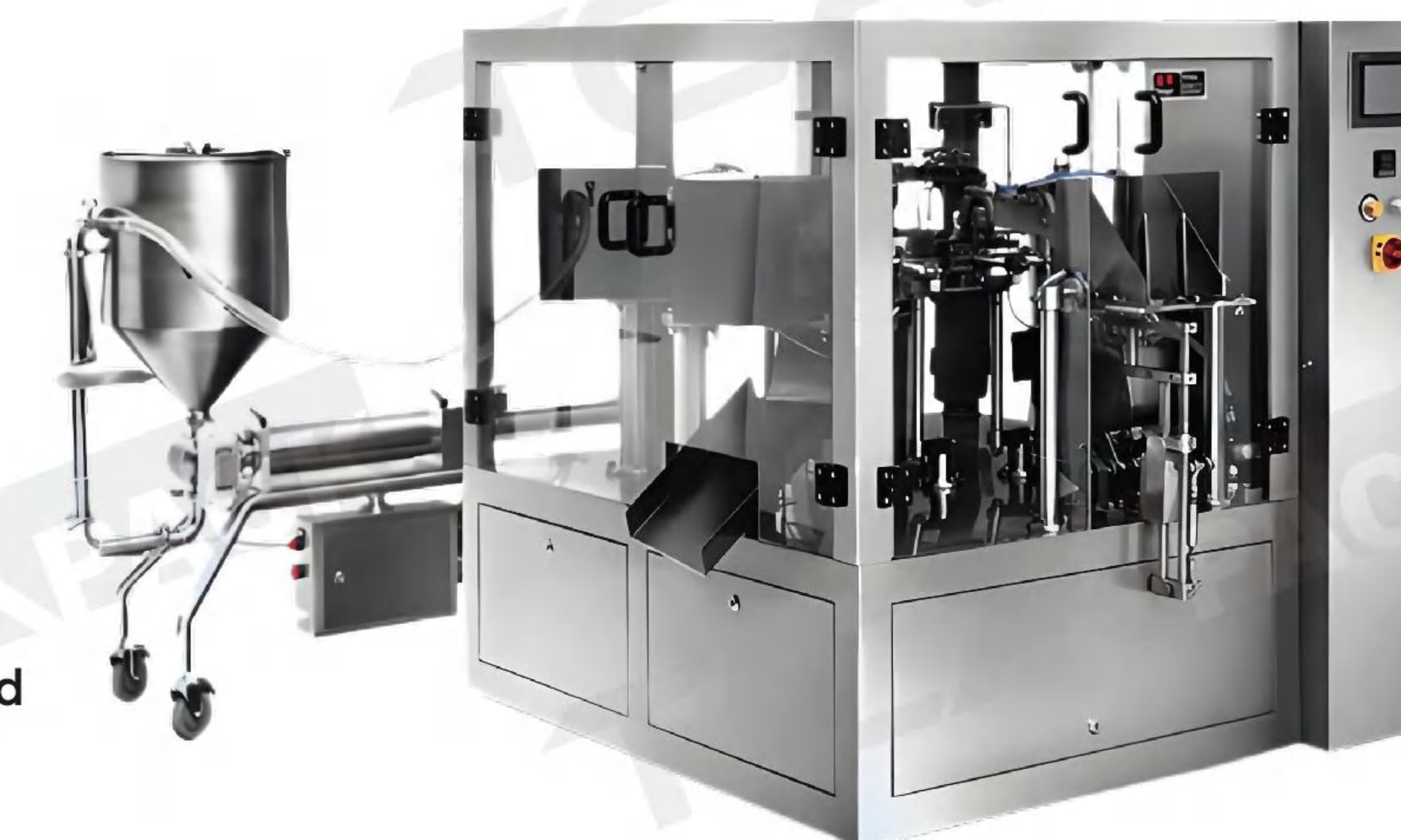
Model	KG-200	KG-250	KG-300
Making bag size	(L) 100~300mm (W) 100~200mm	(L) 150~350mm (W) 150~250mm	(L) 200~400mm (W) 200~300mm
Canned speed	10-60 bags/min		
Power supply	3 phase 380V, 50/60Hz, 2.5KW		
Air pump specification	500N Litre/min, 6kg/m ²		
Compressde Air	0.8Mpa		
Air consumption	0.6m ³ /min		
Dimension	L4200*W2000*H1900mm		
Machine weight	1130Kg		



Automatic powder product weighing and packaging equipment for pre made bags



Automatic liquid/paste product weighing and packaging equipment for pre made bags



LINEAR BOTTLE/CAN POWDER METERING PRODUCTION LINE



EQUIPMENT INTRODUCTION

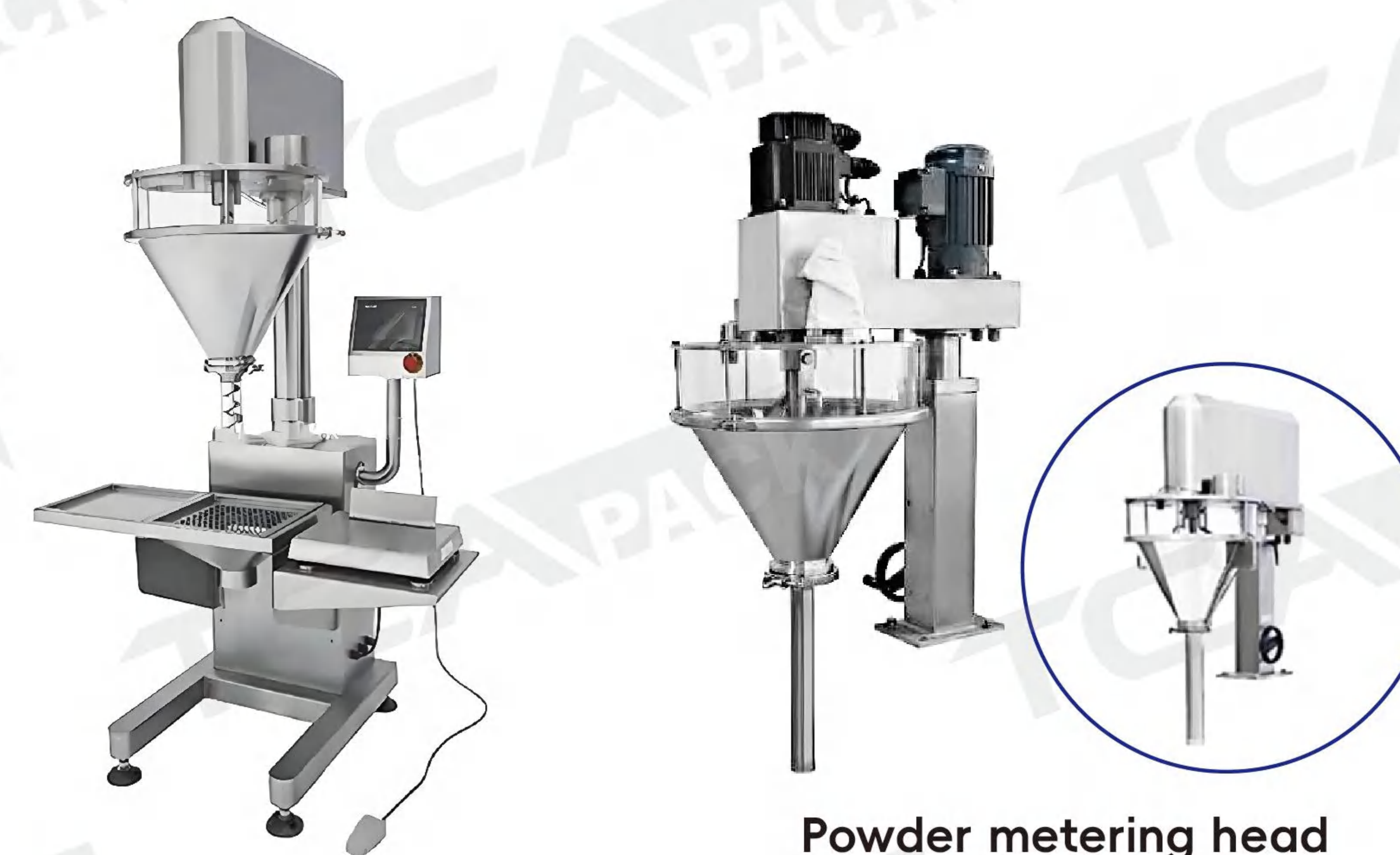
Product Features:

- 1. Entire machine constructed entirely of stainless steel:** fully meets GMP and food hygiene certification requirements; suitable for packaging of corrosion-resistant chemical products.
- 2. PLC touchscreen interface:** The PLC offers stable operation, anti-interference, and high weighing accuracy, while the touchscreen interface is convenient and intuitive. The weighing feedback and specific gravity tracking eliminate the problem of package weight fluctuations due to material specific gravity variations.
- 3. Servo motor drive for filling:** high positioning accuracy, high torque, long life, and adjustable speed.
- 4. Maintenance-free reduction motor manufactured in Taiwan for stirring:** low noise, long life, and lifetime maintenance-free.
5. Designed for continuous adjustment during packaging, the machine allows for flexible switching between operating modes for easy operation.
6. Adjustment parameters and recipes for various products can be stored for future use, with up to 10 recipes stored.
7. The fully sealed, air-damped glass and stainless steel combined bin ensures clear visibility of material movement and prevents dust from escaping. The filling outlet is equipped with a dust collector to protect the workshop environment.
8. Replace the spiral attachment to adapt to a variety of materials from ultra-fine powder to large particles.

TECHNICAL PARAMETERS

Packing weight	1-500g (convertible spiral attachment)	10-5000g (convertible spiral attachment)
Weighing range	0.2-800g	1-6000g
Packing precision	≤ 0.3-1% Package weight > 1000g Deviation ± 0.25%-0.5%	
Packing speed	15-60bags/min	10-50bags/min
Power supply	380/220V 50/60Hz	
Machine power	800W	1.8KW
Machine weight	150kg	260kg
Machine bulk	L800*W700*H1900mm	L800*W1200*H2150mm
Hopper capacity	26L	50L

SEMI-AUTOMATIC POWDER METERING AND FILLING EQUIPMENT



Powder metering head

EQUIPMENT INTRODUCTION

- 1. Entire machine constructed entirely of stainless steel:** fully meets GMP and food hygiene certification requirements; requires corrosion-resistant packaging for chemical products.
- 2. PLC touchscreen interface:** The PLC offers stable operation, anti-interference, and high weighing accuracy. The touchscreen interface is convenient and intuitive. The weighing feedback and specific gravity tracking eliminate the problem of package weight fluctuations due to material specific gravity variations.
- 3. The filling system is driven by a servo motor:** high positioning accuracy, high torque, long life, and adjustable speed.
- 4. The stirring system utilizes a maintenance-free reduction motor manufactured in Taiwan:** low noise, long life, and lifetime maintenance-free.
5. The design allows for continuous adjustment during packaging, allowing for flexible switching between operating modes for easy operation.
6. Adjustment parameters and recipes for various products can be stored for future use, with up to 10 recipes stored.
7. The fully sealed, air-damped glass and stainless steel combined bin ensures clear visibility of material movement and prevents dust from escaping. A dust collector is installed at the filling outlet to protect the workshop environment.
8. Interchangeable screw attachments accommodate a wide range of materials, from ultrafine powders to coarse particles.

TECHNICAL PARAMETERS

Packing weight	1-500g (convertible spiral attachment)	10-5000g (convertible spiral attachment)
Weighing range	0.2-800g	1-6000g
Packing precision	≤ 0.3-1% Package weight > 1000g Deviation ± 0.25%-0.5%	
Packing speed	15-60bags/min	10-50bags/min
Power supply	380/220V 50/60Hz	
Machine power	800W	1.8KW
Machine weight	150kg	260kg
Machine bulk	L800*W700*H1900mm	L800*W1200*H2150mm
Hopper capacity	26L	50L

5-50KG AUTOMATIC WEIGHING AND PACKAGING EQUIPMENT PRODUCTION LINE



EQUIPMENT INTRODUCTION

1. Utilizes a new, internationally popular production control system: a high-precision, high-speed, dedicated metering controller featuring powerful functionality, high reliability, and maximum flexibility and scalability, making it fully adaptable to repetitive, highly continuous production.
2. Features include overshoot suppression, automatic drop correction, and automatic alarms for out-of-tolerance situations.
3. This machine is a new mechatronic device, utilizing computer control technology and imported high-precision weighing sensors. All contact areas with the material are constructed of 304 stainless steel.
4. The bag clamp is interchangeable to accommodate various bag sizes.
5. Conveyor belts are available in a variety of materials, including chemical industrial belts and plastic-steel chain plates.
6. Industrial bag sewing machines and pneumatic heat sealers are also available.

TECHNICAL PARAMETERS

Measurement Method	Gross weight type
Filling Mode	valve feeding,spiralsupplement
Packing weight	5-25kg,10-50kg
Packing Accuracy	±0.2%
Packing speed	4 bags/min
Pawer supply	3P:380V, 1P:220V/50Hz
Compressde Air consumption	6Mpa
Air consumption	0.2 m³/min
Total power	2Kw
Machine size	L1000*W1000*H2400mm

SEMI-AUTOMATIC LINEAR WEIGHING GRANULE PACKAGING MACHINE



EQUIPMENT INTRODUCTION

1. Dual independent weighing hoppers: Insensitive to external influences, separate from the bag, and operating at high speeds.
2. The feeder automatically adjusts according to the specific gravity of the material during operation to achieve higher accuracy and faster speeds.
3. Independent single weight sensor: More stable operation and higher sensitivity, breaking away from the traditional instrument-based control systems currently in use.
4. A programmable timer automatically memorizes the current packaging count and shift, easing handovers and providing instant feedback on the current product qualification rate.
5. The Chinese user interface, along with programmable action times, makes operation more intuitive and convenient.
6. A calibration program and weights are included for easy, at-anytime calibration, particularly useful for correcting weight drift after extended periods of inactivity.
7. The weighing hopper is sealed with a glass cover, significantly reducing contamination in the workshop.
8. The machine is aesthetically pleasing and convenient for removing residual materials. The weighing hopper is hook-type and can be removed for easy cleaning.

TECHNICAL PARAMETERS

Feeding mode	Four vibration feeding,electronic sensor weighing	Vibration feeding weighing (net weight)
Packing Weight	50-1000g (double bucket for single use) 100-2000g (double bucket for common use)	200-5000g
Packaging	weight ≤200g , deviation≤+1g ; weight>200g , deviation≤+2g	
precisionPackaging speed	10-30 bags/min	8-15 bags/min
Power supply	1P 220V 50/60Hz	1P 220V 50/60Hz
Weight	150kg	180kg
Total Power	0.5Kw	0.7Kw
Machine dimension	L630*W530*H1660mm	L875*W860*H2010mm
Operatinginterface	color PLC touch screen	

MULTI-HEAD COMBINATION SCALE SERIES



SCOPE OF APPLICATION

It is suitable for quantitative weighing of various granular, flaky, strip, and irregular shaped materials such as candy, melon seeds, potato chips, pistachios, peanuts, nuts, preserved fruits, jelly, frozen rice balls, biscuits, candied fruits, mothballs, raisins, almonds, chocolate, nuts, cereal pet food, puffed food, small hardware, plastic parts, etc.

TECHNICAL PARAMETERS

Name	Computer combined weighing equipment
Weighing range	10-2000g
The average error of single bag	0.2-0.5g
Weighing precision range	0.1-1.5g
The biggest weighing speed	30~130 bags/min
Hopper capacity	1300m ³
Hopper type	Double row memoryless bucket
Drive mode	Stepper motor
Power	2000W
Power source	220V,50/60Hz
Dimensions	L1250*W1020*H1348 mm

WEIGHING DETECTION/METAL DETECTION EQUIPMENT



Metal weight detection machine



Finished tunnel metal detection



Pipeline Metal Detection



Weight testing equipment



25kg weight testing equipment

TECHNICAL PARAMETERS

Model	K-XBI	K-XBII
Weighing range	1-1000G	5-25KG
Speed	45	5-30
Precision	±1	±5
Minimum scale	0.1	1
Product design model	10	10
Machine size	L1050*W681*H1260mm	
Removing device	Blowing removing/Pulling out removing	
Voltage	220V	
Power	300W	

FULLY AUTOMATIC POWDER WEIGHING CANNING/ BOTTLING PRODUCTION LINE



EQUIPMENT FEATURES

It is used in automatic production lines for automatic loading, metering, filling, sealing, labeling, coding, etc. of various granular and powder products.

This automatic weighing and filling system includes:

- ① Can unscrambler (bottle feeder)
- ② Non-magnetic empty can sterilizer
- ③ Loading equipment
- ④ Defect-free powder filling equipment
- ⑤ Can sealing equipment
- ⑥ Ionized air tank cleaning equipment
- ⑦ **Optional equipment includes:** coding equipment, automatic depalletizer, can turner, case packing and palletizing, and robotic arms.

TECHNICAL PARAMETERS

Name	Fully automatic powder canning line
Filling Weight	Upon request
Counting Accuracy	≤+0.5%
Production Speed	30-120 bottles/min
Power Supply	Three-phase 380V 50Hz
Compressed Air	6-8 kg/m ² ~ 0.3 m ³ /min
Gas Consumption	1.45 m ³ /min
Filling Specifications	Adjustable molds allow for filling in a variety of sizes
Bottle Material	307#/401#/502#/300#/PET, glass bottles, tinplate, etc.

AUTOMATIC QUANTITATIVE FILLING PRODUCTION LINE FOR POWDER PRODUCTS



EQUIPMENT FEATURES

It is used in automatic production lines for automatic metering, filling, sealing, labeling, coding, etc. of various powder products. It can be customized according to specific needs.

CANNING PROCESS

Automatic depalletizer (empty cans) → can sorter (bottle supply) → non-magnetic empty can sterilizer → vacuum loader → horizontal conveyor → metal detector → non-defective filling machine → double-head vacuum nitrogen filling and sealing machine → ion air can cleaning machine → inkjet printer → can turner → soft rubber capping machine → case packing and palletizing

TECHNICAL PARAMETERS

Name	Automatic powder bottle production line
Filling weight	According to customer requirement
Power supply	3 phase 380V 50Hz
Compressed air consumption	6kg/cm ²
Air consumption	1.45m ³ /min
Bottle material	307#/401#/502#/300#/PET, glass bottle, tinplate
Filling specification	Changing the mold of the canning machine and nitrogen filling and sealing machine can can a variety of specifications of products
Packing speed	15-55 bags/min
Measurement accuracy	≤±0.5%

FULLY AUTOMATIC GRANULAR PRODUCT WEIGHING AND FILLING PRODUCTION LINE



EQUIPMENT FEATURES

This system is used in automated production lines for measuring, filling, sealing, labeling, and coding various granular products. It can be used with bottles made of PET, glass, and tinfoil. It can also be used with various nuts, snacks, grains, preserved fruits, canned fruits, and more. Customization is available based on specific needs.

This set of automatic weighing and filling system:

- ① Canning machine → ② Vibration discharge Z-type lifting equipment → ③ Combined weighing equipment → ④ Work platform → ⑤ Automatic positioning filling equipment → ⑥ Aluminum foil sealing equipment → ⑦ Top cover screw cap equipment → ⑧ Labeling machine

TECHNICAL PARAMETERS

Name	Fully automatic granule canning line
Filling Weight	Customized according to customer requirements
Power Supply	3-phase 380V 50Hz
Compressed Air Volume	0.6Mpa
Air Consumption	1.45m ³ /min
Bottle Material	307#/401#/502#/300#/PET, glass bottle, tinfoil
Filling Specifications	Changing the mold of the canning machine and nitrogen filling and sealing machine can can a variety of specifications of products
Production Speed	30-120bags/min
Measuring Accuracy	≤ ±0.5%

LIQUID PRODUCT BOTTLING PRODUCTION LINE



PROCESS FLOW

1. Bottle unscrambling → 2. Automatic filling → 3. Automatic capping → 4. Automatic screw capping → 5. Automatic weight detection → 6. Automatic magnetic induction sealing → 7. Automatic labeling → 8. Automatic inkjet printing → 9. Collection platform

EQUIPMENT FEATURES

1. Filling accuracy of up to +1%
2. Easy to adjust the filling volume
3. Easy to operate and maintain
4. Imported components
5. Manual and automatic settings
6. Easy to disassemble and clean
7. Made of stainless steel, meets GMP standards
8. Suitable for small quantities and a variety of products

TECHNICAL PARAMETERS

Model	Filling range (ml)	Production (pcs/m)	Air compressor displacement	Power Supply	Machine Size (mm)	Weight(kg)
KY-BG 100	10-10	20-25	5.7 ft ³ /min	220V/50Hz	980x550x1450	35
KY-BG 250	30-250	20-25	5.7 ft ³ /min	220V/50Hz	1000x550x1550	35
KY-BG 500	100-500	12-18	5.7 ft ³ /min	220V/50Hz	1100x550x1600	45
KY-BG 1000	200-1000	8-14	5.7 ft ³ /min	220V/50Hz	1300x670x1650	45
KY-BG 2000	500-2000	6-10	8.8 ft ³ /min	220V/50Hz	1650x700x1700	75

SINGLE MACHINE SUPPORTING EQUIPMENT



Automatic positioning canning equipment

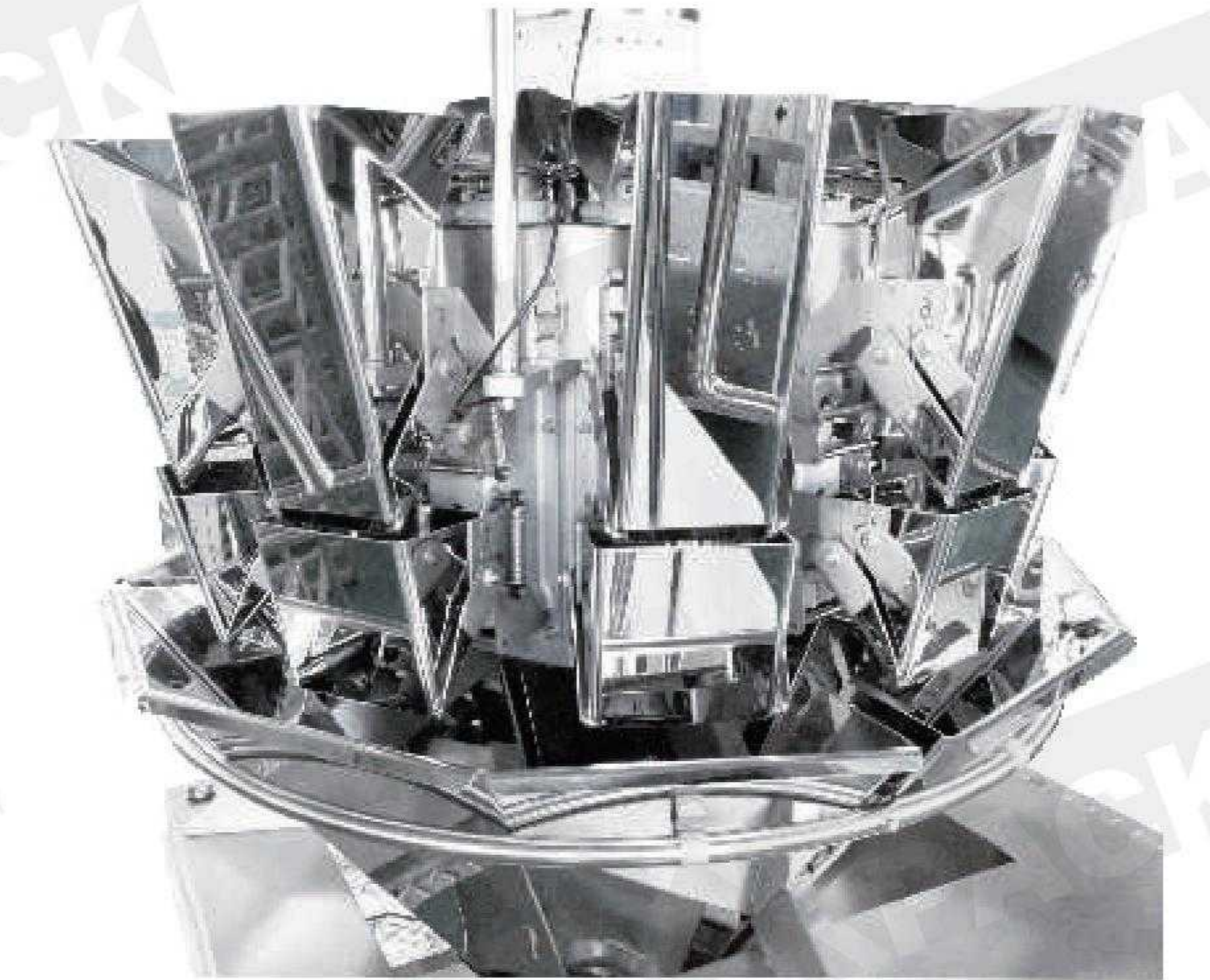
EQUIPMENT FEATURES

- Equipment exterior: 304 stainless steel
1. Measuring method: Gravimetric filling
 2. Packaging accuracy: $\leq \pm 1.5g$
 3. Packaging speed: 10-50 cans/min
 4. Power supply: Three-phase 220V 50/60Hz
 5. Total power: 3.5kW
 6. Air pressure: 6-8kg/m²
 7. Air consumption: 0.2m³/min
 8. Total weight: 400kg
 9. Dimensions: 2000*1400*1500mm

SINGLE MACHINE SUPPORTING EQUIPMENT



Mixing machine



Weigher



Automatic depalletizer



Bottle unscrambler



4heads linear weighing machine



Semi-automatic paste pump



Automatic labeling machine



Can sealing machine



Semi-automatic liquid pump



Semi-automatic paste pump

SINGLE MACHINE SUPPORTING EQUIPMENT



Non-magnetic empty can cleaning and disinfection machine

EQUIPMENT FEATURES

- A. Non-magnetic cleaning of the inner tank thoroughly removes metal impurities, eliminating the drawbacks of strong magnetic attraction and incomplete cleaning.
- B. UV disinfection and cleaning are performed in one station, eliminating secondary contamination caused by separate cleaning and disinfection.
- C. Compact structure and small footprint.
- 1. Disinfection speed: 1-45 cans/minute (variable speed control).
- 2. Applicable tank sizes: 75-150mm diameter, 80-200mm height (mold replacement).
- 3. Total power: 1.1kW (seven 25W UV sterilizer lamps).
- 4. Main material: SUS304 stainless steel.
- 5. Inverter brand (TECO), manufactured in Taiwan.
- 6. Main material: 304 stainless steel.
- 7. Power supply: Three-phase 380V 50Hz.

SINGLE MACHINE SUPPORTING EQUIPMENT



Double-head vacuum nitrogen filling can sealing machine

EQUIPMENT FEATURES

- The tank is evacuated, filled with nitrogen and sealed.
- Production Capacity: 12-14 cans/minute (applicable cans)
- Specifications: Standard 401/502 cans (mold replacement required)
- Height: 100-230mm
- Residual Oxygen Content: $\leq 3\%$
- Workstation Height: 900mm
- Air Source: 0.8MPa
- Flow Rate: 2m³/h
- Material: 304 stainless steel
- Dimensions: (L) 2200mm * (W) 1150mm * (H) 1900mm



non-defective canned filling machine

EQUIPMENT FEATURES

- 1. Measuring method: Weighing followed by secondary refilling with spiral rotary filling
- 2. Container size: Cylindrical container $\phi 50-180\text{mm}$, height 50-350mm
- 3. Package weight: 100-2000g (with interchangeable spiral attachments)
- 4. Package accuracy: $\leq \pm 1.5\text{g}$
- 5. Package speed: 25-55 cans/min
- 6. Power supply: Three-phase 380V 50/60Hz
- 7. Total power: 3.5kW
- 8. Air pressure: 6-8kg/m²
- 9. Air consumption: 0.2m³/min
- 10. Total weight: 700kg



Ion wind tank cleaning machine

EQUIPMENT FEATURES

- The tank is evacuated, filled with nitrogen and sealed.
- A. Cleans dust from materials adhering to the tank due to static electricity.
- B. Collects and processes dust and impurities.
- 1. Cleaning capacity: 30-80 cans/minute.
- 2. Applicable can sizes: $\phi 60-\phi 150\text{mm}$ (with replacement feed screw), height 80*200mm.
- 3. Power output: 2kW.
- 4. Dimensions: L2600*W600*H1600mm.
- 5. Main material: 304 stainless steel.
- 6. Power supply: Three-phase 380V 50/60Hz.
- 7. Adds a plasma blower for more thorough cleaning of the tank.

SINGLE MACHINE SUPPORTING EQUIPMENT



EQUIPMENT FEATURES

- Powersupply:220V/50 Hz
- Voltage :2 Kw
- Diameter:φ20-100mm
- Height: 30-260 mm
- Production capacity:60-120 bays/min
- Weight: 180 kg
- Special requirements can be customized

Aluminum foil sealing equipment

SINGLE MACHINE SUPPORTING EQUIPMENT



EQUIPMENT FEATURES

1. Cap unscrambling speed: 250 pieces/minute. Compatible with various sizes of round caps (high caps), including 502# and 401#, the machine ensures smooth operation without cap jamming or wear.
2. The machine is constructed of 304 stainless steel with a brushed exterior finish. The safety door and protective cover are made of a transparent polymer material (alcohol-resistant).
3. Equipped with a quick alarm mode, it allows the operator to quickly address any issues.

high cover positioning capping equipment

EQUIPMENT FEATURES

- Soft rubber capping machine
- 1.Capping speed: 30-60 cans/ min
 - 2.Applicable specifications: diameter 75-150mm,height 80-200mm
 - 3.Overall power: 800wthree-phase 380V 50-60Hz
 - 4.Air consumption: 0.01 cubic meters / hour
 - 5.Main material:SUS304 stainless steel
 6. Vacuum generator brand (Schmerz), origin: Germany



Soft rubber cover capping equipment

EQUIPMENT FEATURES

1. Main unit dimensions: 998 x 628 x 1438 mm
2. Capping machine dimensions: L1548 x W820 x H1780 mm
3. Capping speed: 0-300 bottles/minute
4. Applicable cap diameter: 10-100 mm
5. Applicable cap height: 10-50 mm
6. Applicable bottle diameter: 10-120 mm
7. Applicable height: 40-280 mm
8. Power supply: 220V 50Hz



Automatic capping and pressing equipment

SUPPORTING CONVEYING EQUIPMENT



Z-type vibration material conveying (granular material)



Single bucket elevator



Bowl type conveyor



Vibrating slope conveying equipment (convenient cleaning)



Vibrating screw conveyor (for powdered products)



Vacuum conveyor (for small granular or powder products)

SUPPORTING CONVEYING EQUIPMENT



High tilt elevator (for small pills)



Mesh belt conveyor line



Loading belt conveyor line



Belt conveyor line



Loading belt conveyor line



Belt conveyor line

FULL PAPER PACKING



Carton/Case Forming

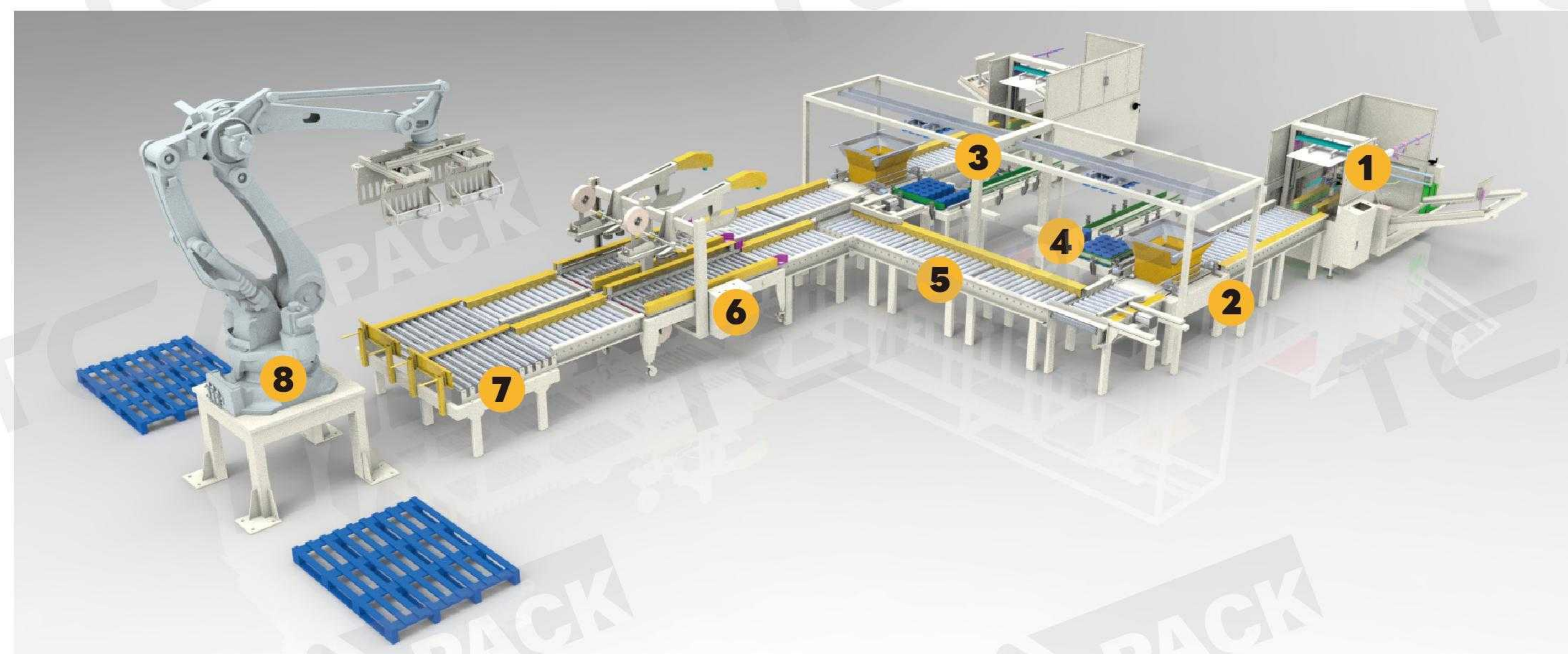
Tray Forming

Admission module

Cartoning/packing module

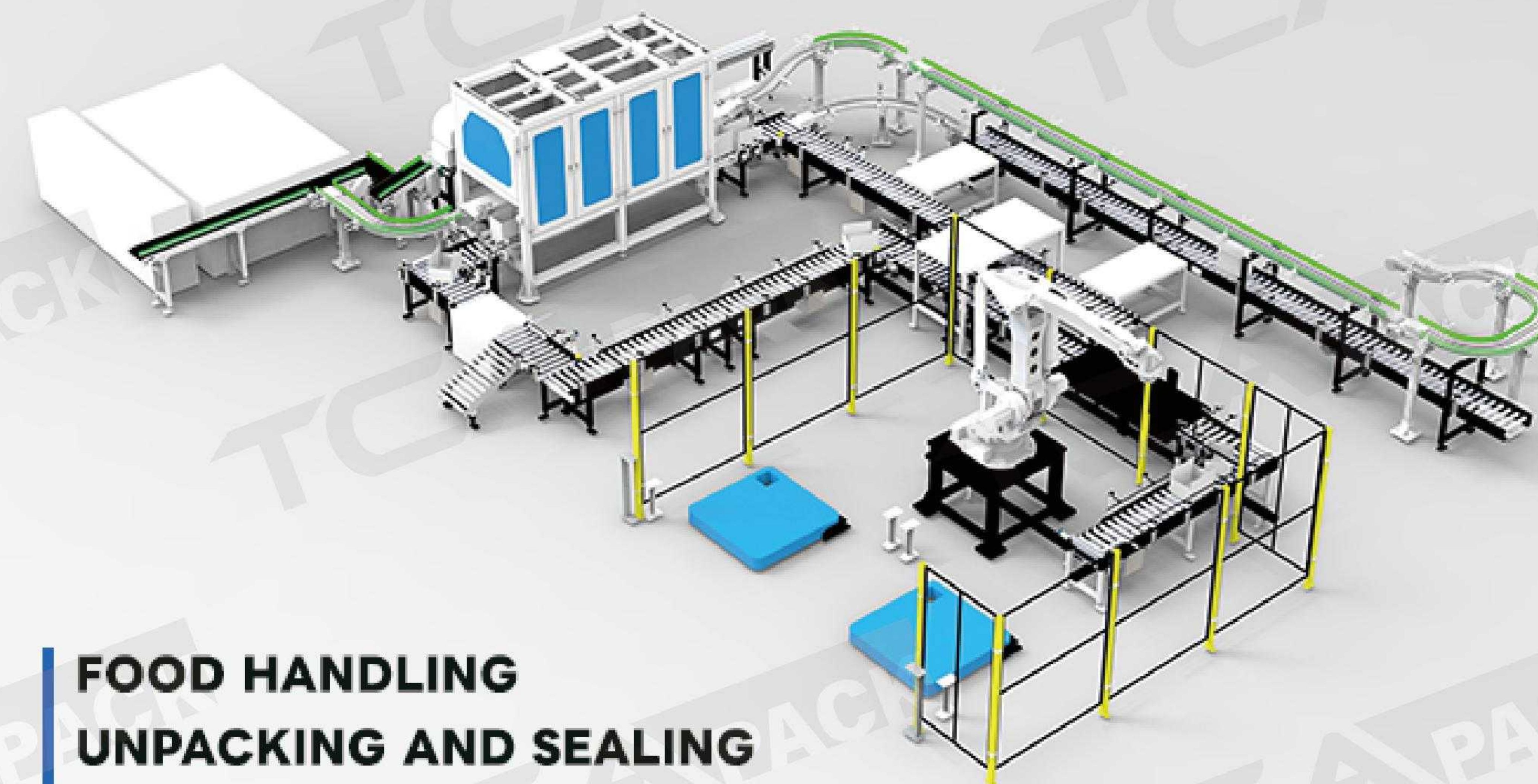
Robotic palletizing

BOXED MATERIAL UNPACKING, SEALING AND PALLETIZING CONVEYOR LINE



1.Unboxing machine → 2.case erector → 3.Frame packing robot → 4.Product placement machine → 5.roller conveyor → 6.Cover removal and sealing machine → 7.Grab conveyor → 8.Robot Palletizer

BACK-END PACKAGING SERIES



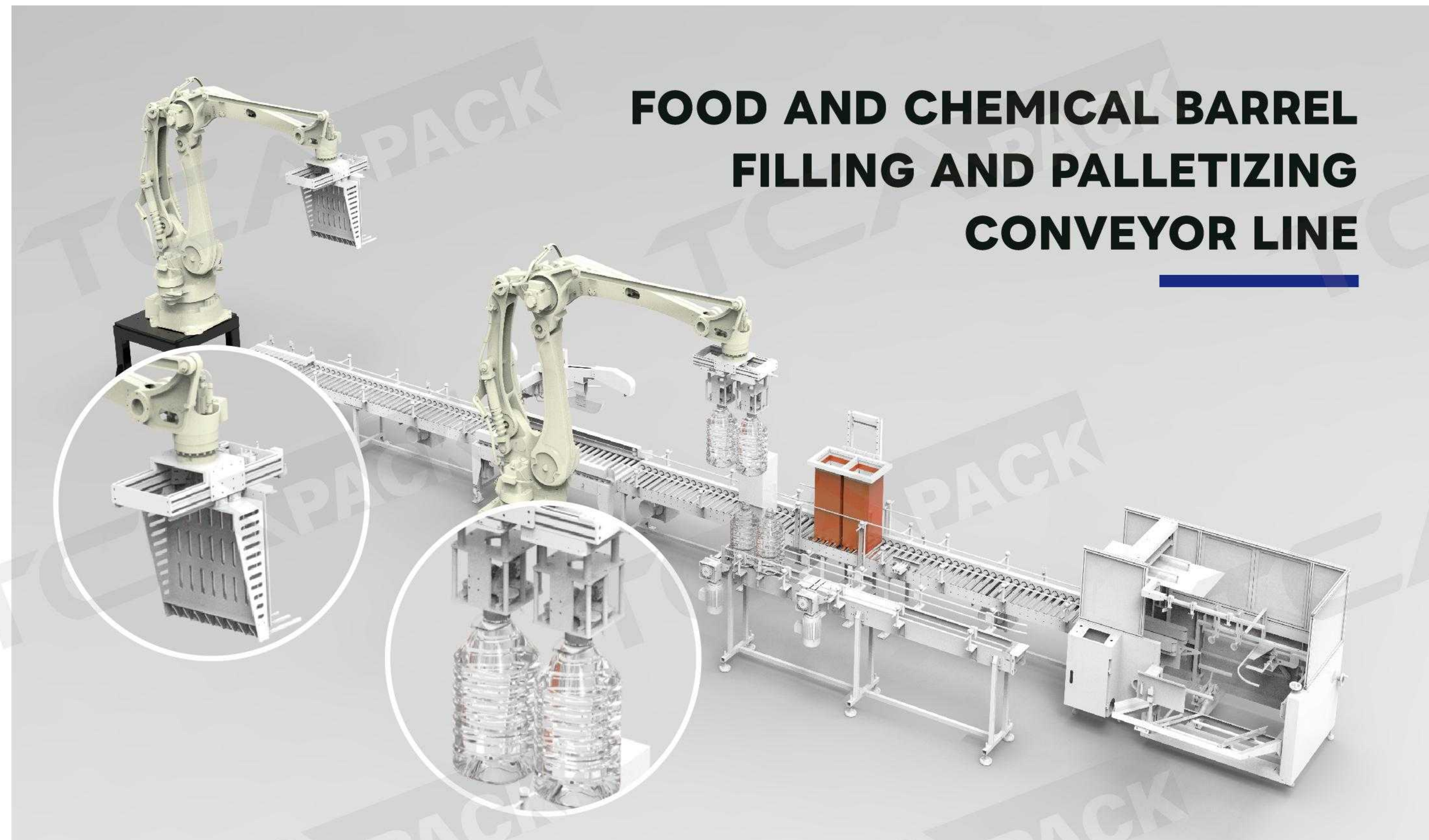
FOOD HANDLING UNPACKING AND SEALING PALLETIZING CONVEYOR LINE

MAIN CONFIGURATION

Disordered material sorting machine + flexible plate chain conveyor + spider hand case packing machine + re-inspection and rejection machine + case opener + case sealing machine + material conveying line + palletizing robot

KEY FEATURES:

1. This line is suitable for packaging foods such as food, pickled vegetables, salt, and small bags.
2. The entire line can be operated by one or two people, reducing labor intensity and costs.
3. The entire line offers a case packing speed of 2,000-5,000 times per hour, customizable upon request.
4. The entire line offers a palletizing speed of 1,000-3,000 cases per hour.
5. The entire line is constructed of stainless steel, offering an elegant and attractive appearance.
6. Various case packing options are available.



FOOD AND CHEMICAL BARREL FILLING AND PALLETIZING CONVEYOR LINE

MAIN CONFIGURATION

①Filling machine + ②conveyor + ③reversing machine + ④feeding belt + ⑤rightangle turning conveyor + ⑥ belt conveyor + ⑦climbing conveyor + ⑧bag sort-ing conveyor + ⑨grabbing conveyor + ⑩palletizing robot

MAIN FEATURES

1. This line is suitable for palletizing bagged and barreled materials
2. Reduce the labor intensity and labor required for rear packaging and palletizing, saving production costs.
3. The palletizing speed of the entire line is 1200 bags per hour, which can be configured according to the actual situation.
4. The entire line is made of carbon steel/stainless steel, which has a beautiful and elegant appearance and high aesthetic value.
5. It has a small footprint and powerful functions, meeting the needs of different environments



STANDARD PACKING MACHINE SERIES

EQUIPMENT INTRODUCTION

The self-designed high-speed flexible parallel robot is used for grabbing, ensuring that the product does not fall during high-speed grabbing and handling. It is widely used in fast-moving food, meat products and other soft bags and boxed products for automatic identification, sorting, sorting, handling and packing. The whole machine has a precise and compact structure design, few parts, easy maintenance and repair, and low maintenance cost. It occupies a small space and can be set up in a small space to improve the efficiency of site use. The control method adopts a handheld teaching device + standard control button + signal switch, which is simple to operate and convenient to manage.

HIGH-SPEED PERFORMANCE

Maximum speed: 7.8 m/s
Minimum cycle time: 0.35 s

EASE OF USE

Best-in-class controller and development software

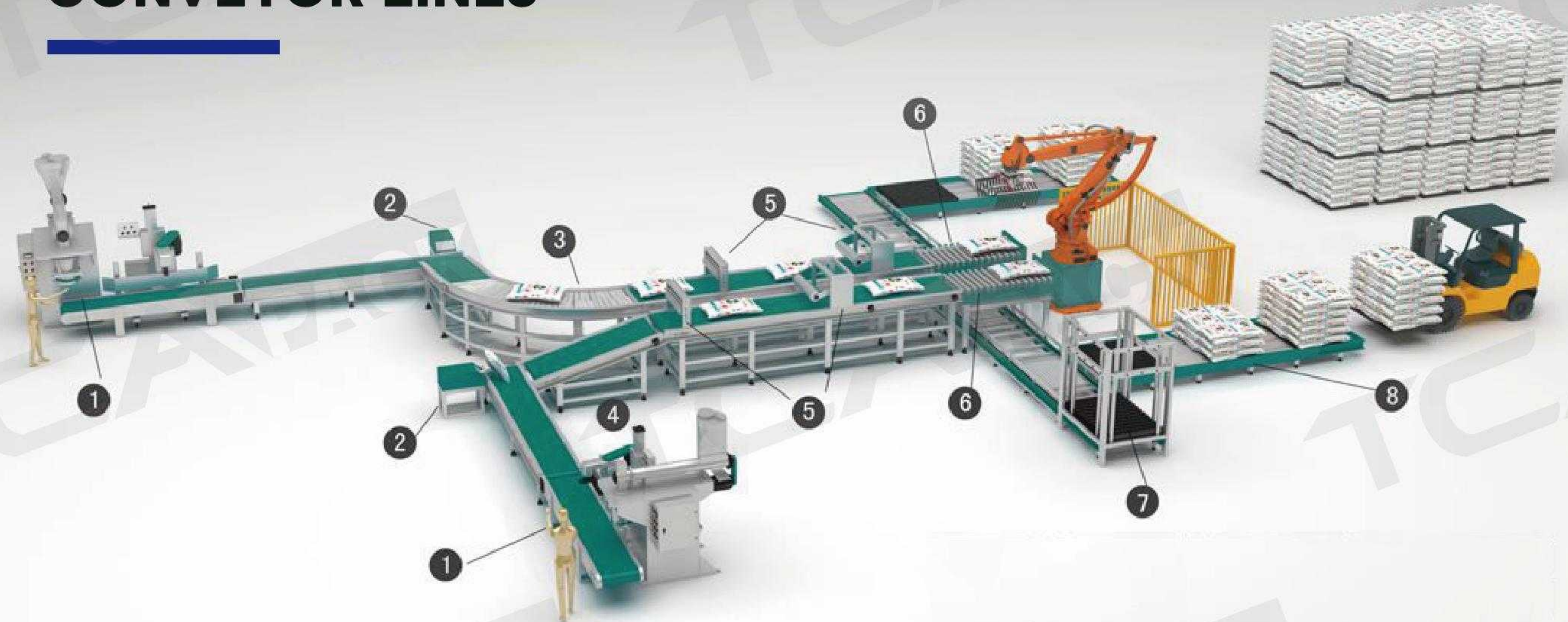
STRONG STABILITY

Unique high rigidity arm design
Low residual vibration

WIDE APPLICABILITY

Suitable for a variety of applications and industries

RICE, FLOUR, GRAIN, FEED, CEMENT AND BUILDING MATERIALS AND OTHER PALLETIZING CONVEYOR LINES



MAIN CONFIGURATION

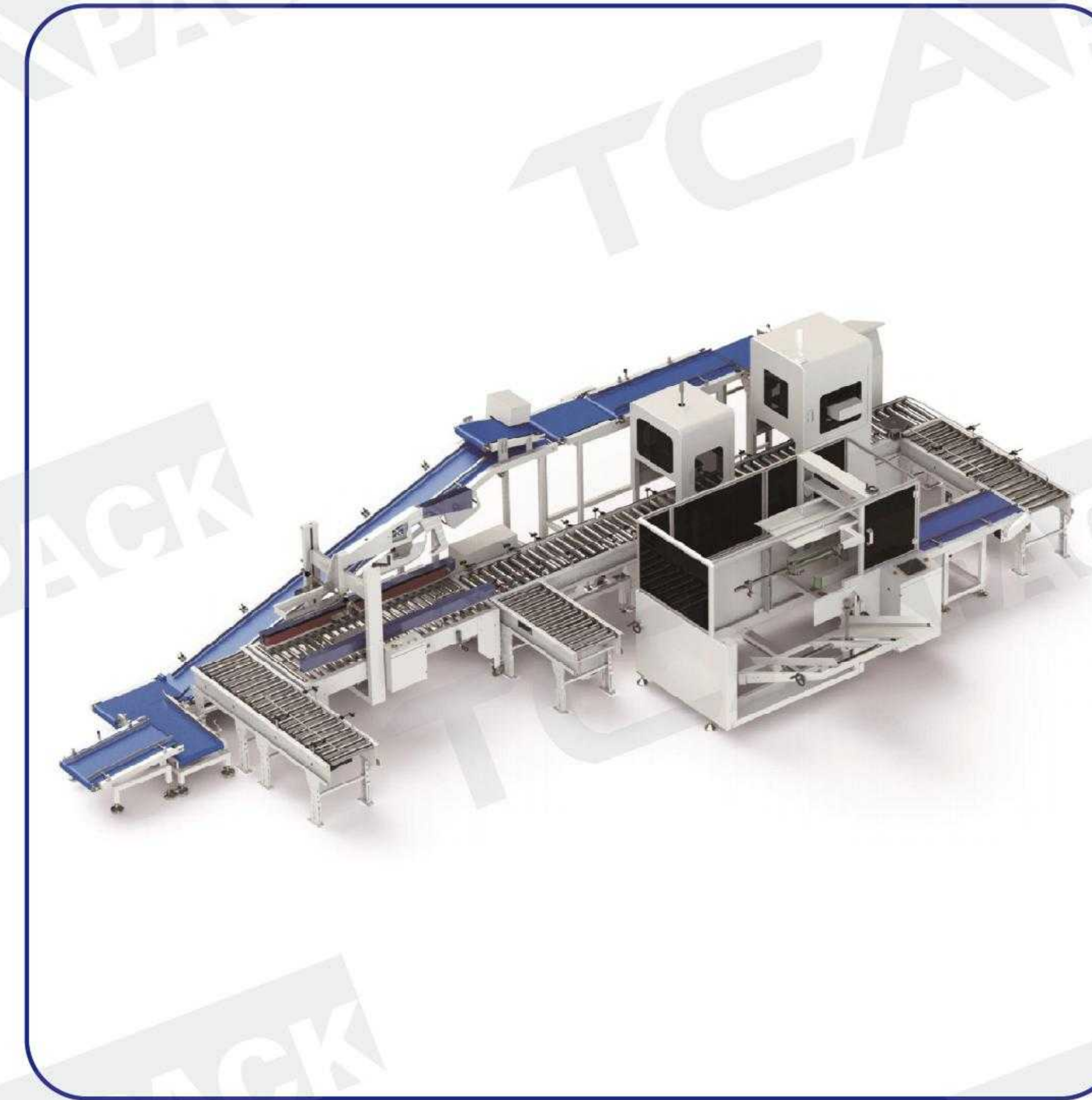
①Packaging machine + ②Rewind conveyor + ③Curve conveyor + ④Liftable belt conveyor + ⑤Shaping machine + ⑥Waiting conveyor + ⑦Automatic pallet storage + ⑧Pallet stacking conveyor

MAIN FEATURES

1. This line is suitable for packaging rice, noodles, grains, oils and other products.
2. The entire line can be operated by 1-2 people, which can reduce labor intensity and labor costs.
3. The stacking speed of the entire line is 1200 bags per hour.
4. The entire line is made of stainless steel, with a beautiful appearance and high appearance.



RELATED CASES



FOOD UNPACKING, PACKING SEALING CASES



CASE OF BOX PALLETIZING



DESTACKING CASE



BAG PALLETIZING CASE

OVERALL SCHEME DESIGN



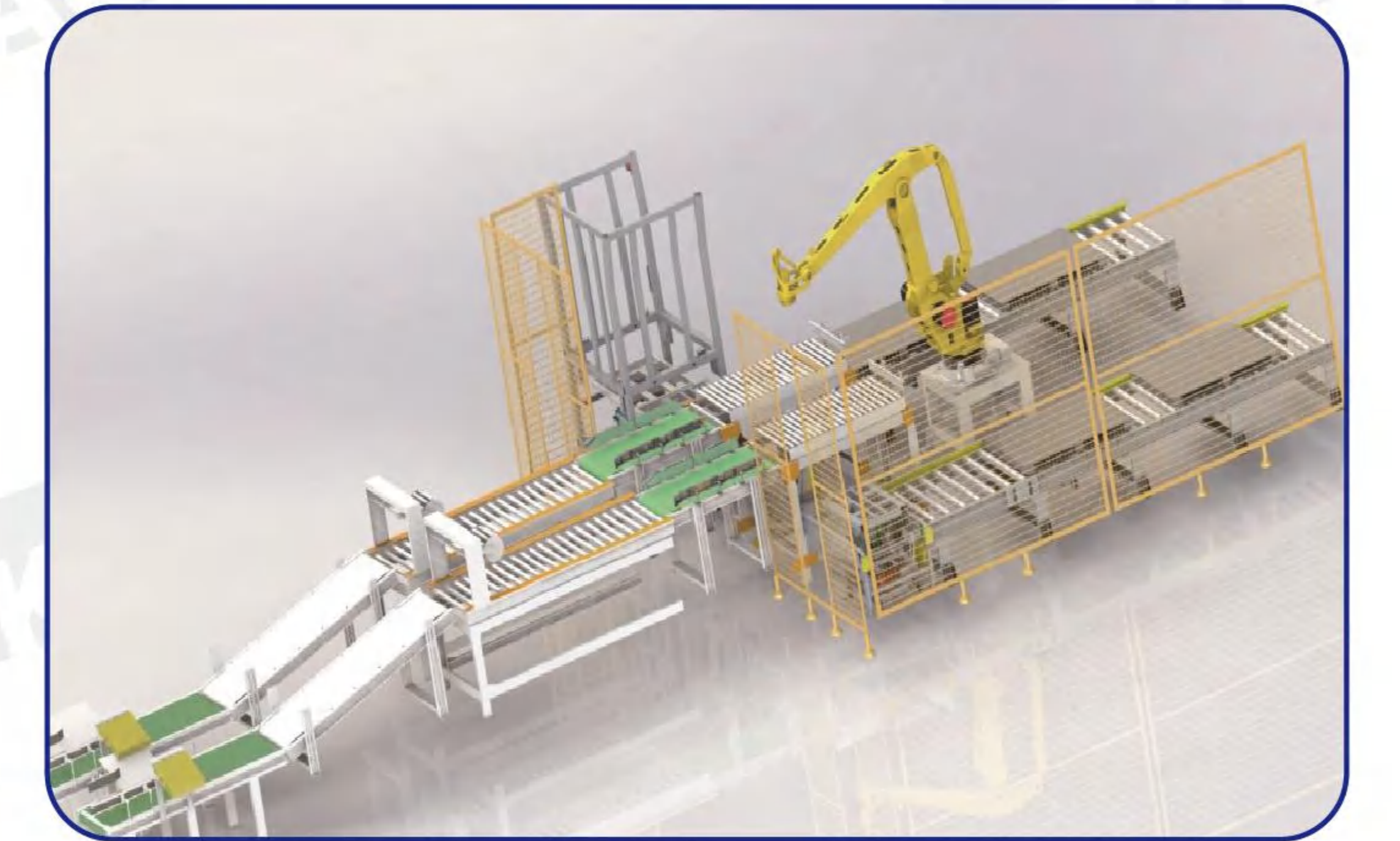
**SINGLE-LINE DOUBLE-STATION
COLUMN PALLETIZING**



**MORTAR DOUBLE-LINE
DOUBLE-POSITION STACKING**



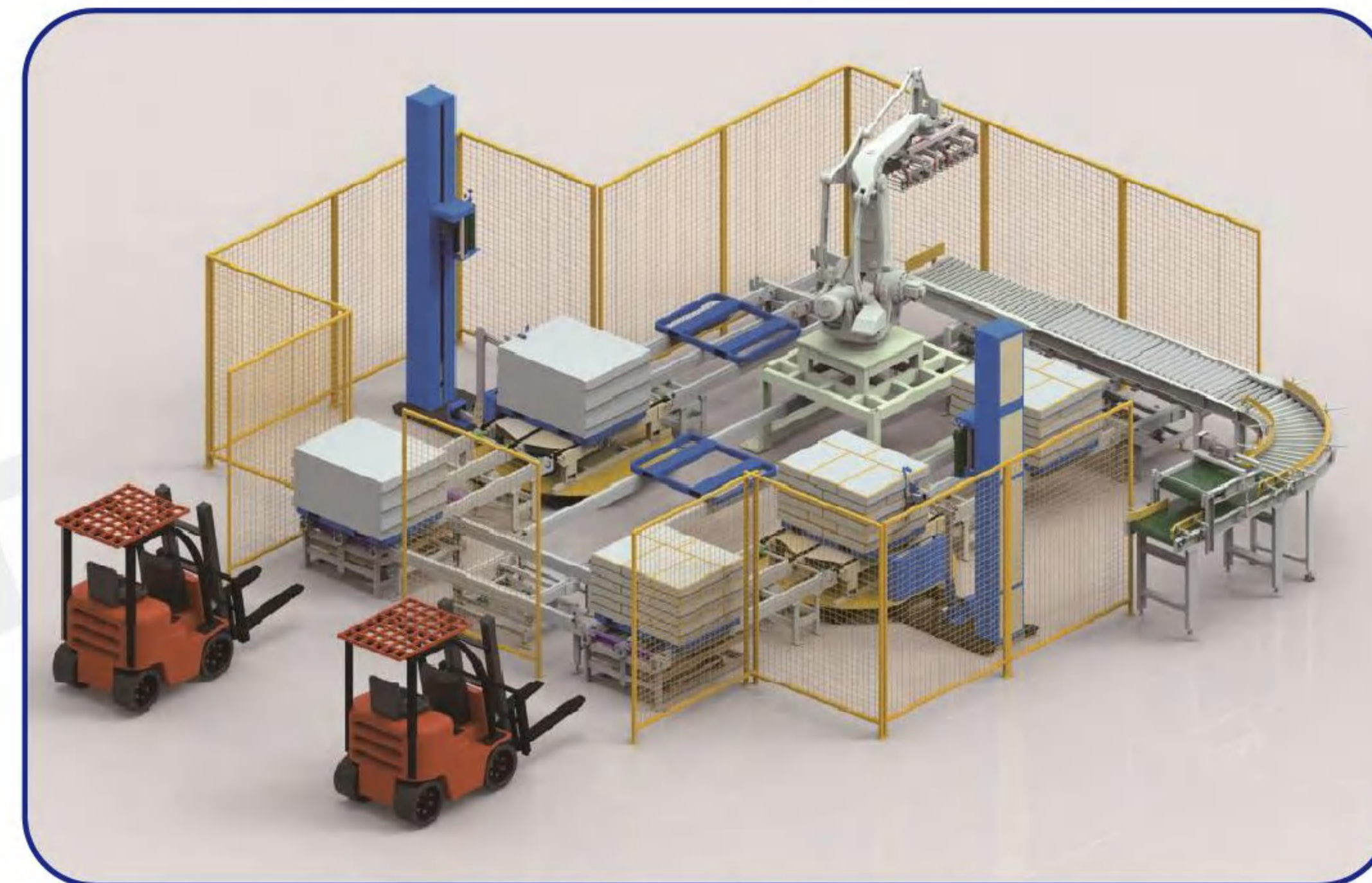
**PALLET WAREHOUSE BOX LOADING
AND STACKING**



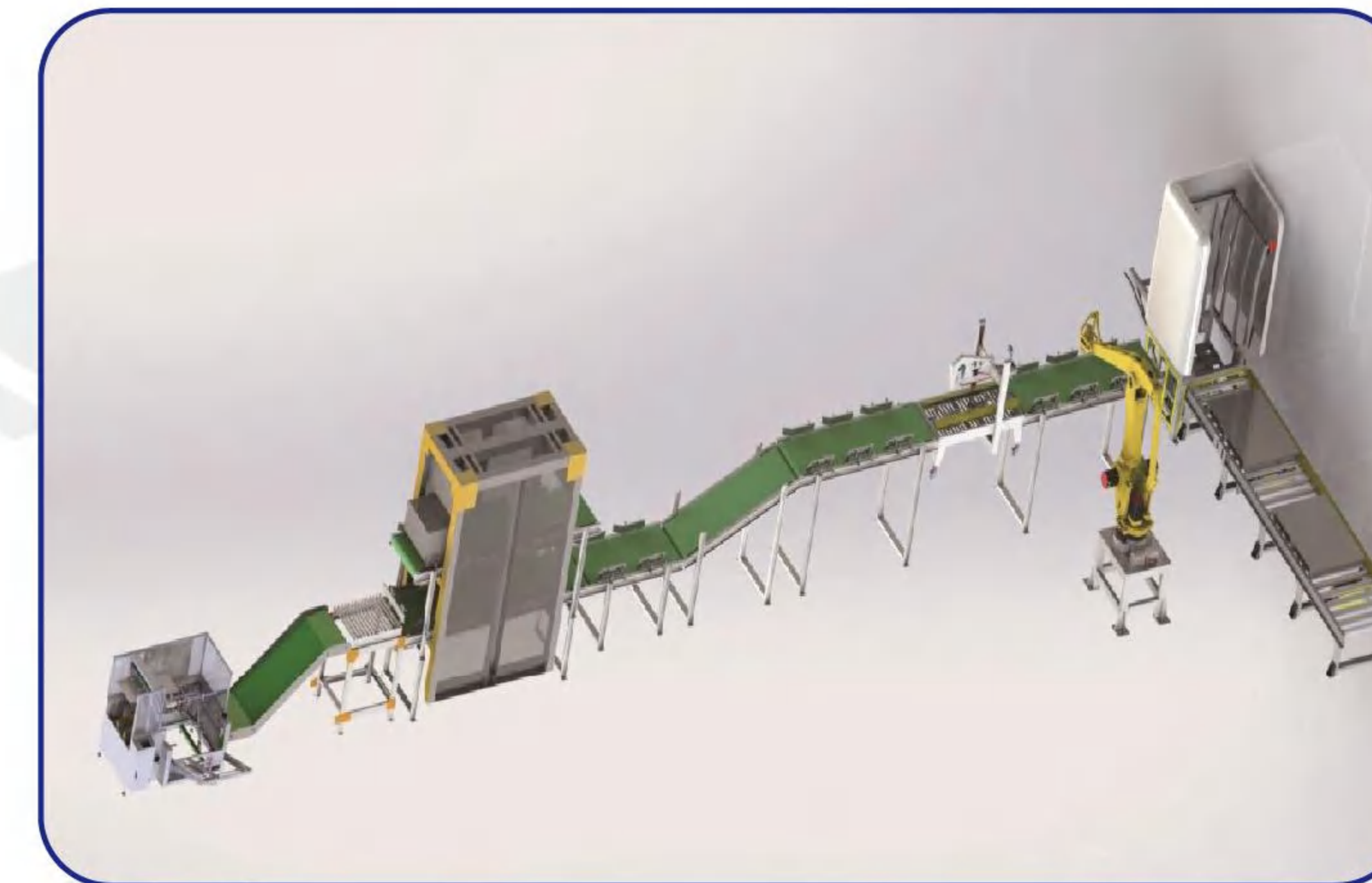
**DOUBLE-LINE DOUBLE-POSITION
PALLETIZING FOR BOX PACKING**



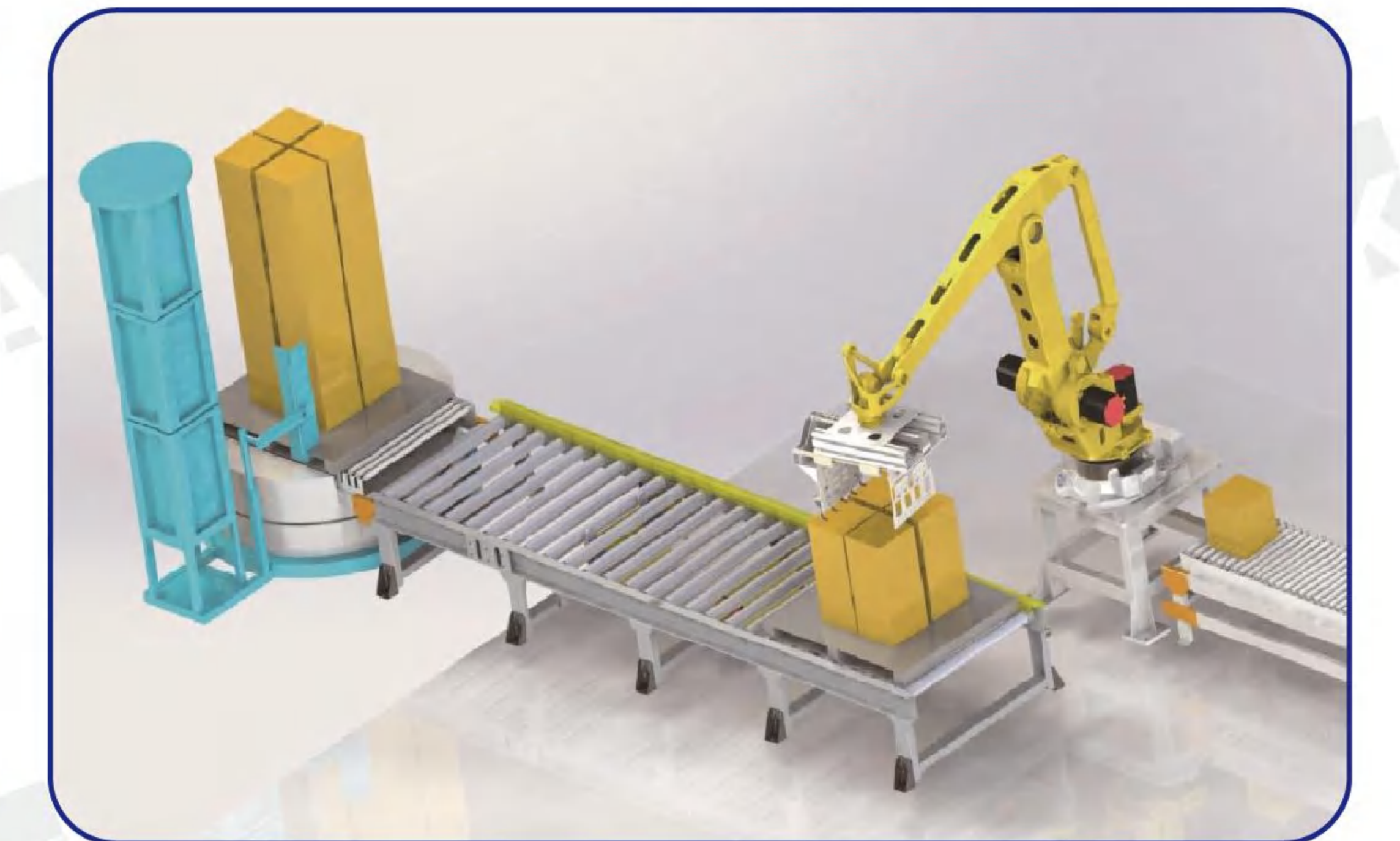
**DOUBLE-LINE PALLET
WAREHOUSE PALLETIZING**



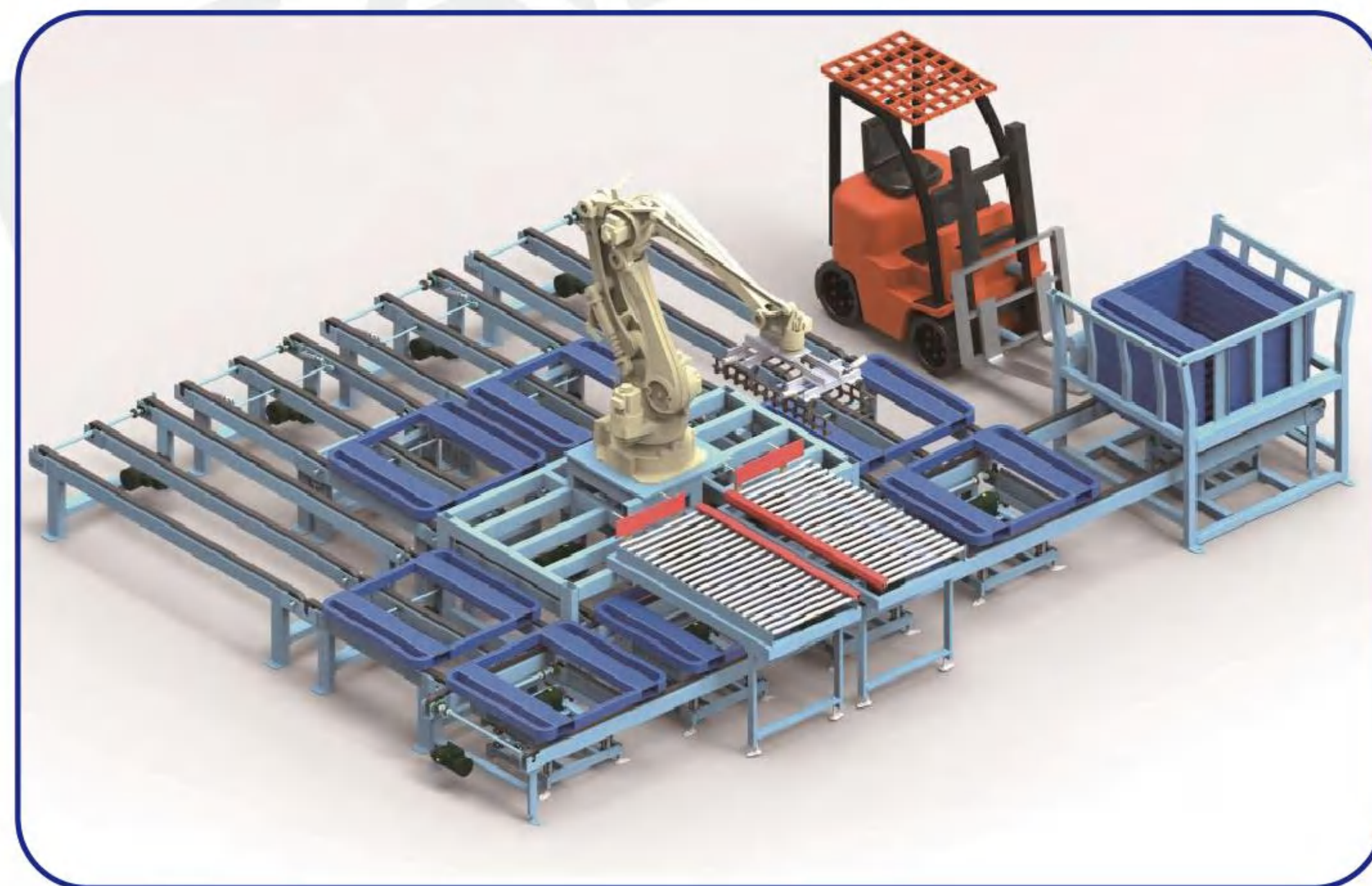
**ONLINE LOOP WRAPPING
PALLETIZING**



**ONLINE UNPACKING, SEALING
AND PALLETIZING**



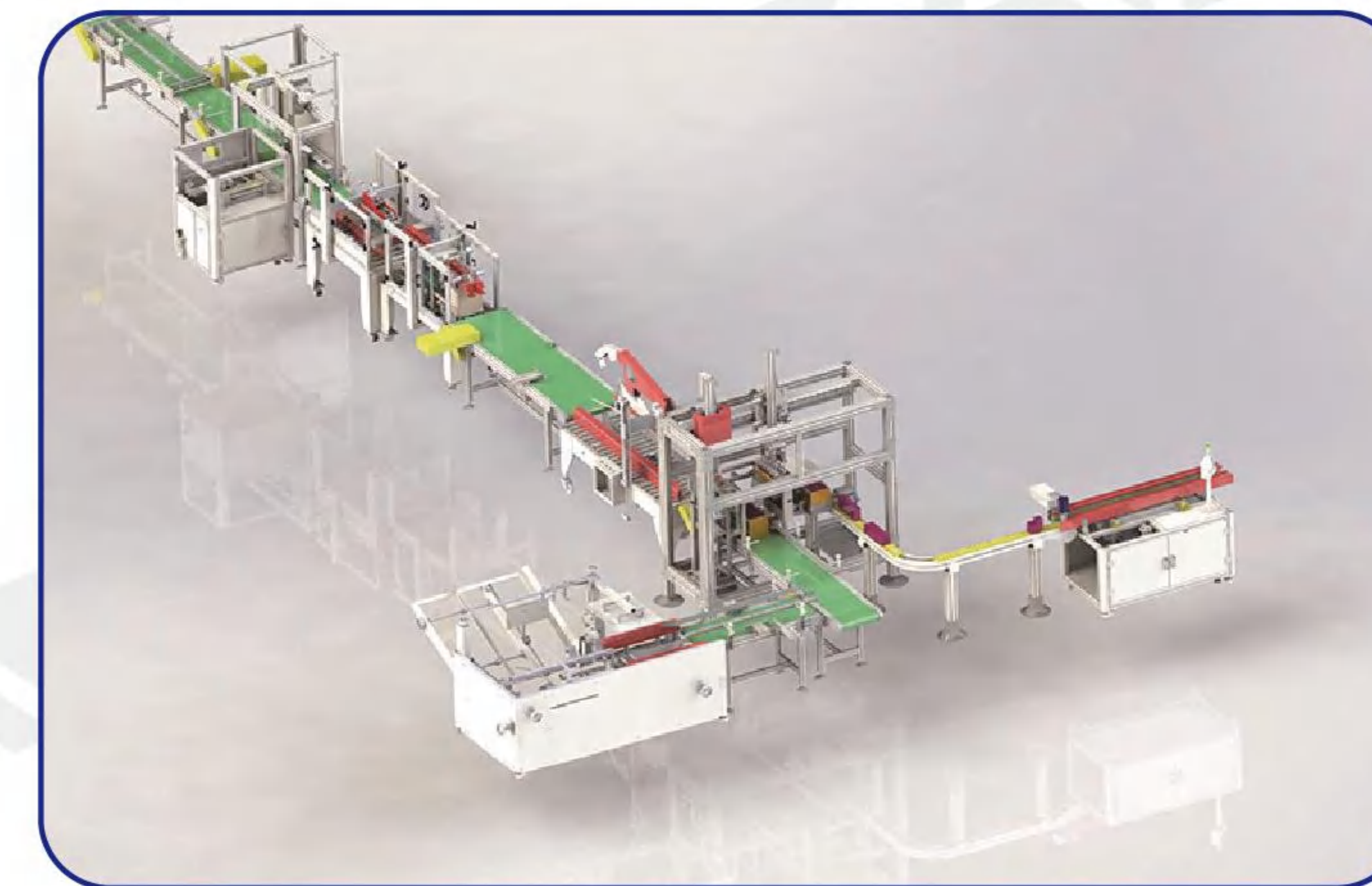
ONLINE WRAPPING AND PALLETIZING



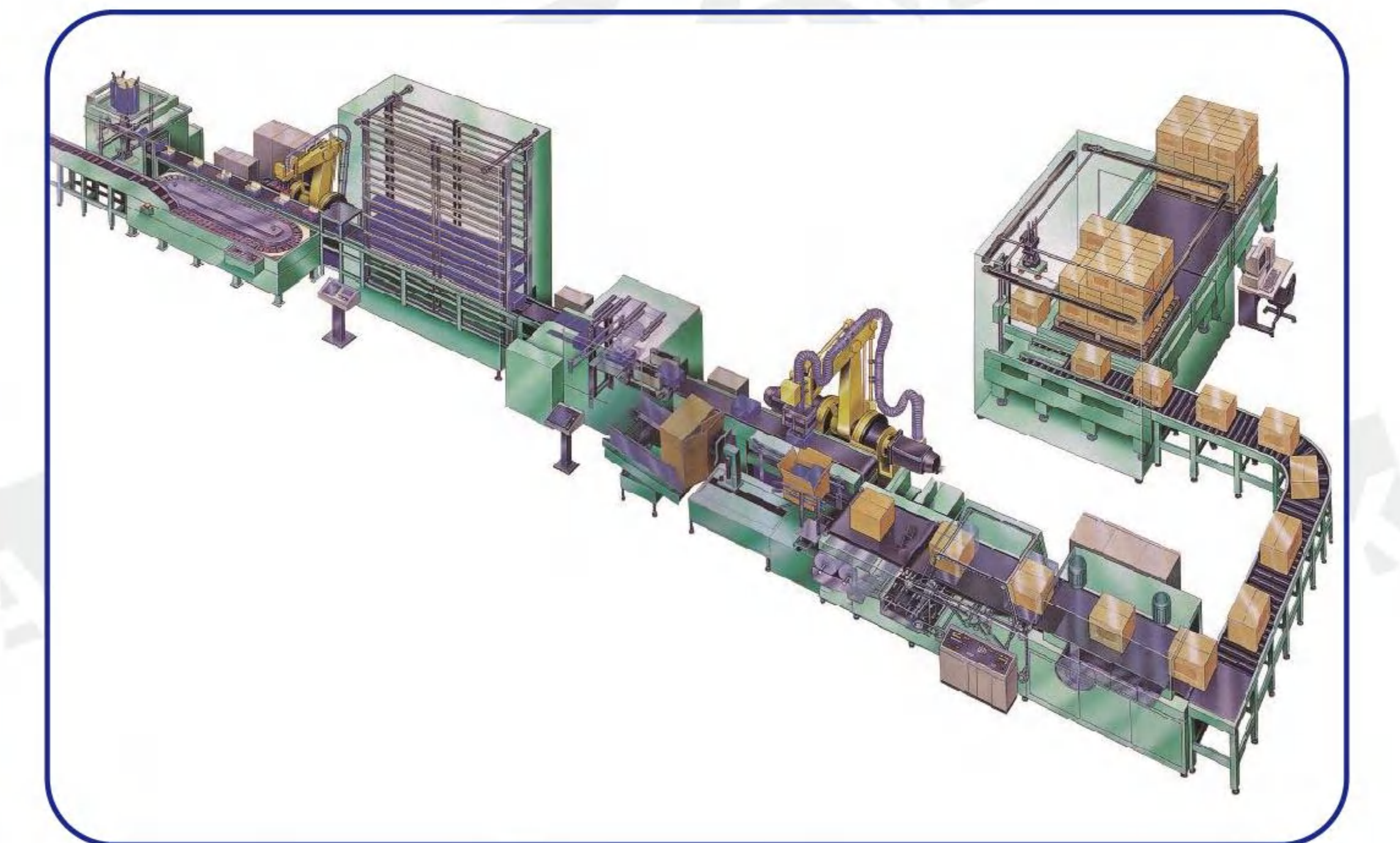
**DOUBLE-LINE FOUR-STATION
PALLET WAREHOUSE**



**SINGLE-LINE SINGLE-STATION
PALLET WAREHOUSE**



**AUTOMATIC UNPACKING, SEALING
AND PACKING**



**MATERIAL SORTING, PACKING
AND PALLETIZING**

INTELLIGENT PALLETIZING SERIES

PALLETIZING ROBOT



EQUIPMENT FEATURES

The wrist can carry a load of 130kg and has a maximum radius of 2816mm

Utilizing innovative topology optimization technology, the machine boasts lightweight, high rigidity, and excellent dynamic response. Combined with a high-speed, visually intelligent palletizing process package, it improves efficiency by 20%, helping customers complete their work more efficiently, effectively, and cost-effectively.

It integrates specialized palletizing process packages for multiple industries, and, along with PLC and various bus interfaces, helps customers easily address various process challenges.

High-performance collision detection enhances safety.

EQUIPMENT FEATURES

The wrist can carry a load of 180kg and has a maximum radius of 3160mm

Thanks to the machine's excellent rigidity, ample reach, and high-speed intelligent palletizing process package, efficiency is increased by 15%, helping customers complete their work quickly, efficiently, and cost-effectively.

Inheriting specialized palletizing process packages from multiple industries, combined with PLC and various bus interfaces, it helps customers easily meet various process challenges.



EFFICIENT PALLETIZING ROBOT

Strong load capacity: Suitable for handling a variety of heavy packaging materials.

Extreme reach: With a 3200mm reach, it covers a wider working area, making it ideal for large-scale production lines or applications requiring long-distance operation.

Excellent accuracy: Repeatable positioning accuracy of up to $\pm 0.06\text{mm}$ ensures consistent and accurate stacking position every time, which is critical to maintaining product quality.

	KR120 R3200 PA	KR120 R3200 PA ARCTIC	KR120 R3200 PA-HO	KR140 R3200-2PA	KR140 R3200-2PA-HO	KR180 R3200 PA	KR180 R3200-2PA	KR180 R3200 PA ARCTIC
Payload	120 kg	120 kg	120 kg	140 kg	140 kg	180 kg	180 kg	180 kg
Maximum reach	3195mm							
Structure type	Standard 5-axis robot							
Execution environment	Standard	Freezer	food	Standard	food	Standard	Standard	Freezer
Mounting location	floor							
Protection	IP-65							