



LIANKE
MANUFACTURING
产品手册
PRODUCT CATALOGUE



让智能制造惠及万千
LET INTELLIGENT MANUFACTURING BENEFIT MILLIONS OF USERS



COMPANY FILE 企业简介

临沂连科智能制造股份有限公司

成立初期主要从事肉制品生产企业自动化设备的研发、生产、销售和新建项目设计等全方位服务，目前已发展成为以肉制品企业为主，辐射整个食品行业的自动化设备供应及服务的专业对口公司，公司最终目标是打造成为肉制品深加工行业专业的成套设备和智能化生产供应商。

公司不但提供包装自动化的标准设备，而且还针对不同企业需求提供多项非标自动化项目的研发服务，成为贯穿客户企业首尾的一站式整体服务商。连科产品从减少用工、改善流程、提高生产效率入手，为客户挖掘更大效益，以自动化、数字化、信息化的战略思想推动合作企业迈向智能制造。

公司倡导与客户企业建立长期战略合作关系，目前已与金锣集团、新希望集团、雨润集团、龙大集团等建立了长期、稳定、全面的战略合作。上百条连科自动化生产线遍布国内及东南亚地区，时刻安全高效的服务于各大用户。

At the initial stage , we mainly engaged in meat automation equipment research, production, sales and new project design and other all-round services. We are now developing into a professional company which supplies professional automation equipment and services for meat processing companies and all food relevant companies in food industry. Our final target is to be the more professional supplier in supplying professional complete equipment and intelligent production in the meat deep processing industry.

Besides the standard equipment for automatic packaging, we also provide development service of non-standard automatic projects according to different requirements of various customers, to be a one stop and all round supplier. We always aim to get our customer the maximum benefits, with main efforts in reducing labor, improving the process, enhancing the productivity. We always believe in our strategy in automation, digitization and informatization to help our customer realize intelligent production.

Lianke always like to build a long term strategic cooperation relationship with customers. We have established a long, stable and all-sided strategy cooperation with Jinluo group, New hope group, Yurun group, Longda Group. There is hundreds of Lianke automatic product line spreading all over our domestic market and Southeast Asia, helping our customers build high efficiency automation production lines.

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公司优势

Enterprise advantage

坚持“品质铸就辉煌，科技引领未来”的理念，紧跟科技发展大势，引领发展潮流；专业并专注，深耕所从事的行业多年，专业经验丰富。

Always adhere the concept of “Quality makes enterprises blossom, Technology guide the way to future”, keep in step with situation of the technology development, guide the way of development trend. Professional and dedicated, deeply cultivated in food industry, rich in experience.



技术优势

Technical advantage

专业的技术团队，完善的测试场地，批量性的测试数据收集，确保每一款推向市场的产品都经得起考验。持续的技术反馈，始终走在行业技术前沿。

Professional technical team, perfect testing site, bulk test data collection, ensure each marketed product could stand the test of the market, continuous technical feedback, always stand at the forefront of industry technology.

因为专注 所以专业

Concentration makes profession

产品优势

Product advantage

严格的材料把关，精细化的生产分工，健全的生产过程检验，充分的下线测试，确保交付客户的每一款产品都是精雕细琢。

Strict material check, refined division of production, wholesome production process inspection, Sufficient offline test, ensuring each delivered machine to customer is quality goods.

服务优势

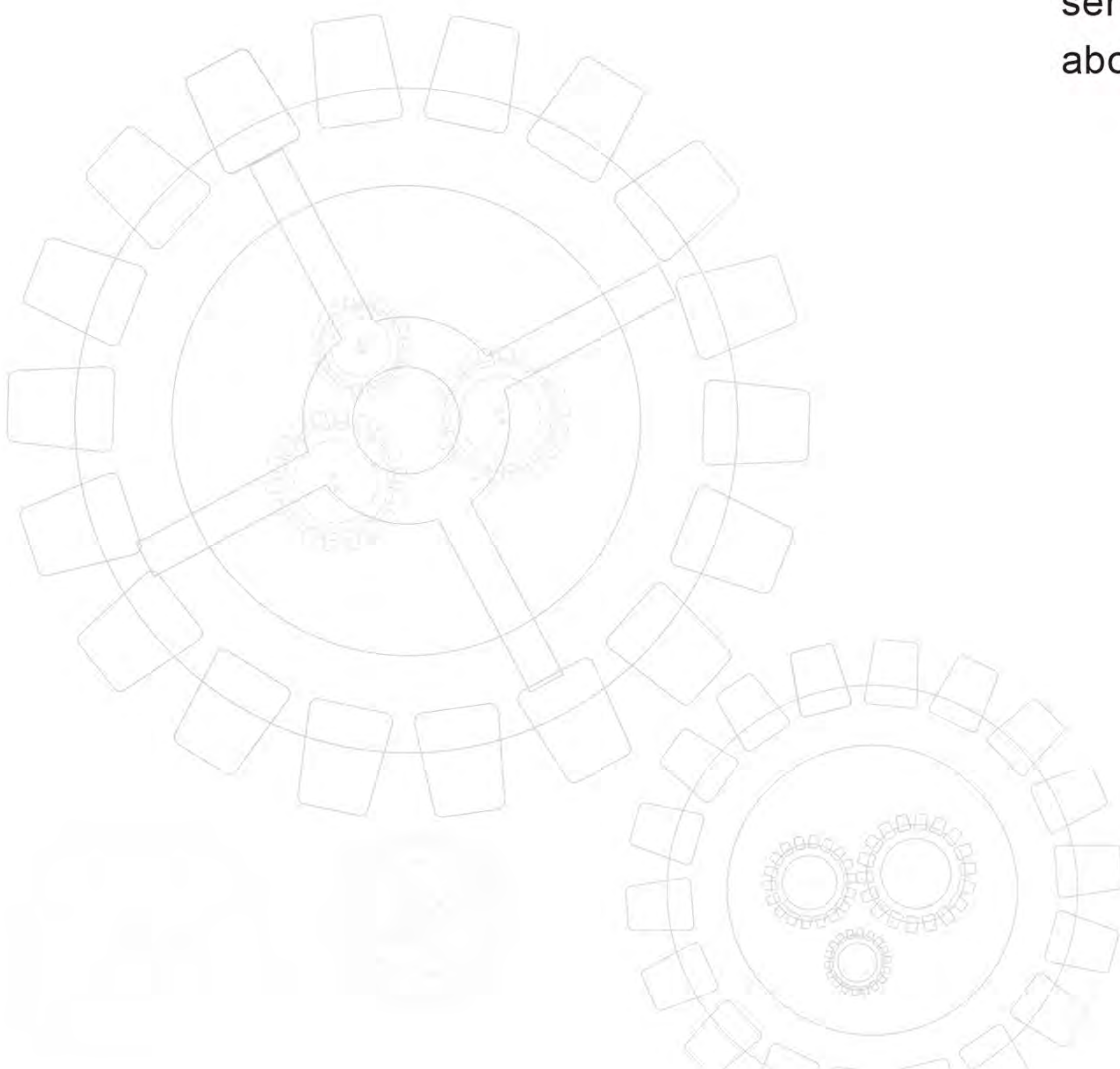
Service advantage

每一个项目安装完毕，都建立客户档案，为客户培养熟练的操作和维护人员；持续提供升级换代服务，确保合作伙伴走在行业前沿；

专业的售后服务团队，时刻提供及时的专业服务，主动的电话与上门回访服务机制，时刻为您保驾护航，使用连科设备让您永无后顾之忧。

Each project after installation, need to establish a customer archives, training skillful operation and maintenance staff, continue to provide upgrade and update service to ensure cooperative partner stand at the forefront of the industry.

Professional after-sales service team, constantly to provide professional services, the mechanism of voluntary call and site visiting service. Using Lianke product have no worries about the rear.



连科生产信息化管理系统 *Lianke production information management system*



信息化主界面

本系统采用工业互联网技术，将整个车间内的关键设备以及能耗节点实现数据采集、数据互联，通过平台软件集中实时监控管理，后台报表系统每日定时生成生产关键指标日报表发送给企业管理层，为企业家提供及时、准确的每日生产决策报表。企业老板无论在何时何地，每天仅需一分钟即可清晰掌握公司生产运转状况。

This system adopts the industrial internet technology, to make the key equipment of whole workshop and nodes of energy consumption to achieve data acquisition and data interconnection accordingly. It will centralize real-time monitoring and management, through the platform software background report key indicator system timing generated daily production daily report sent to the enterprise management. As a result, it provides entrepreneurs timely and accurate daily production decision statements. Whenever and wherever the entrepreneurs are, they only spend one minute per day, then clearly grasp the company's production status!

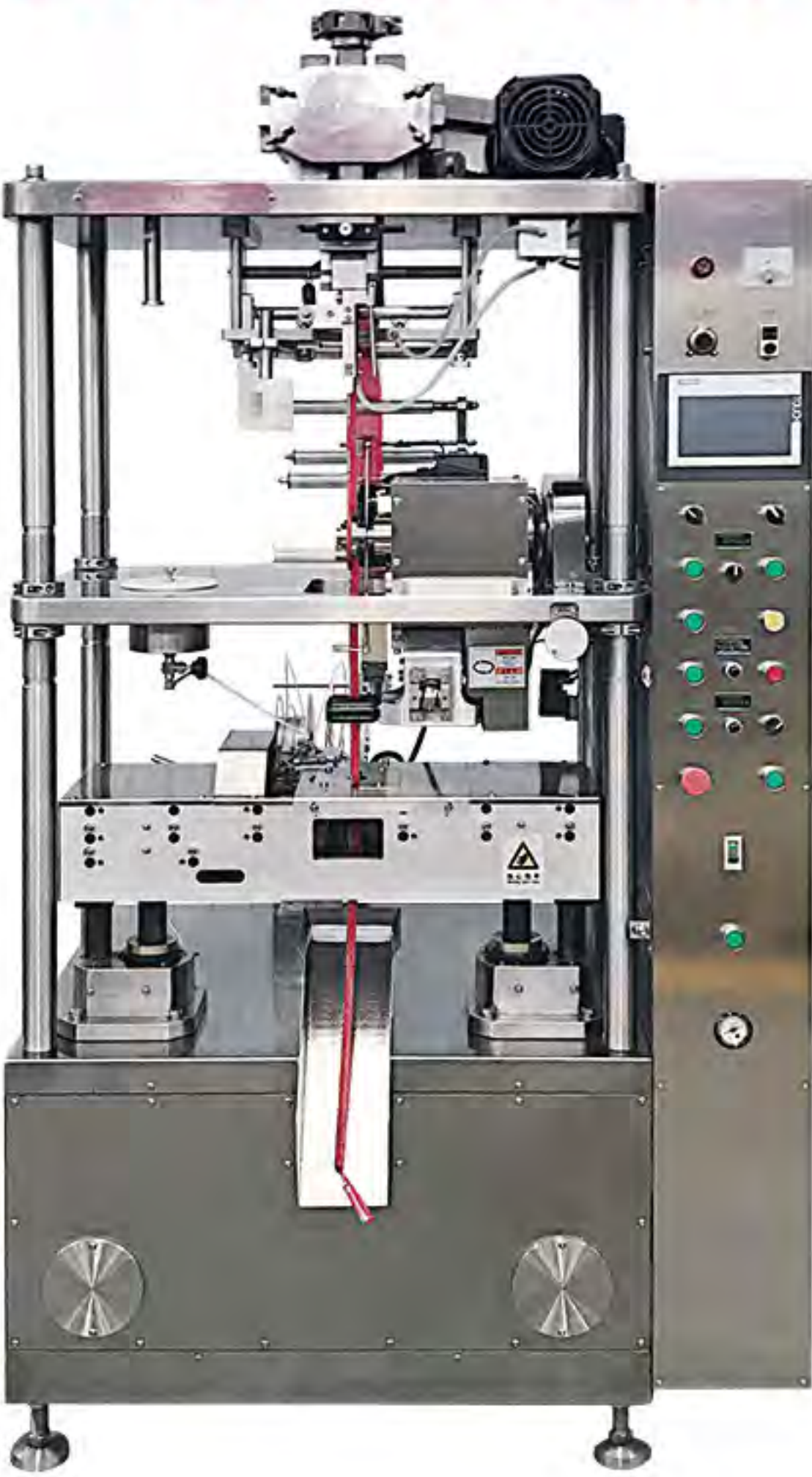


信息化每日报表

火腿肠填充机

Sausage automatic filling machine

LK-AF-160-200

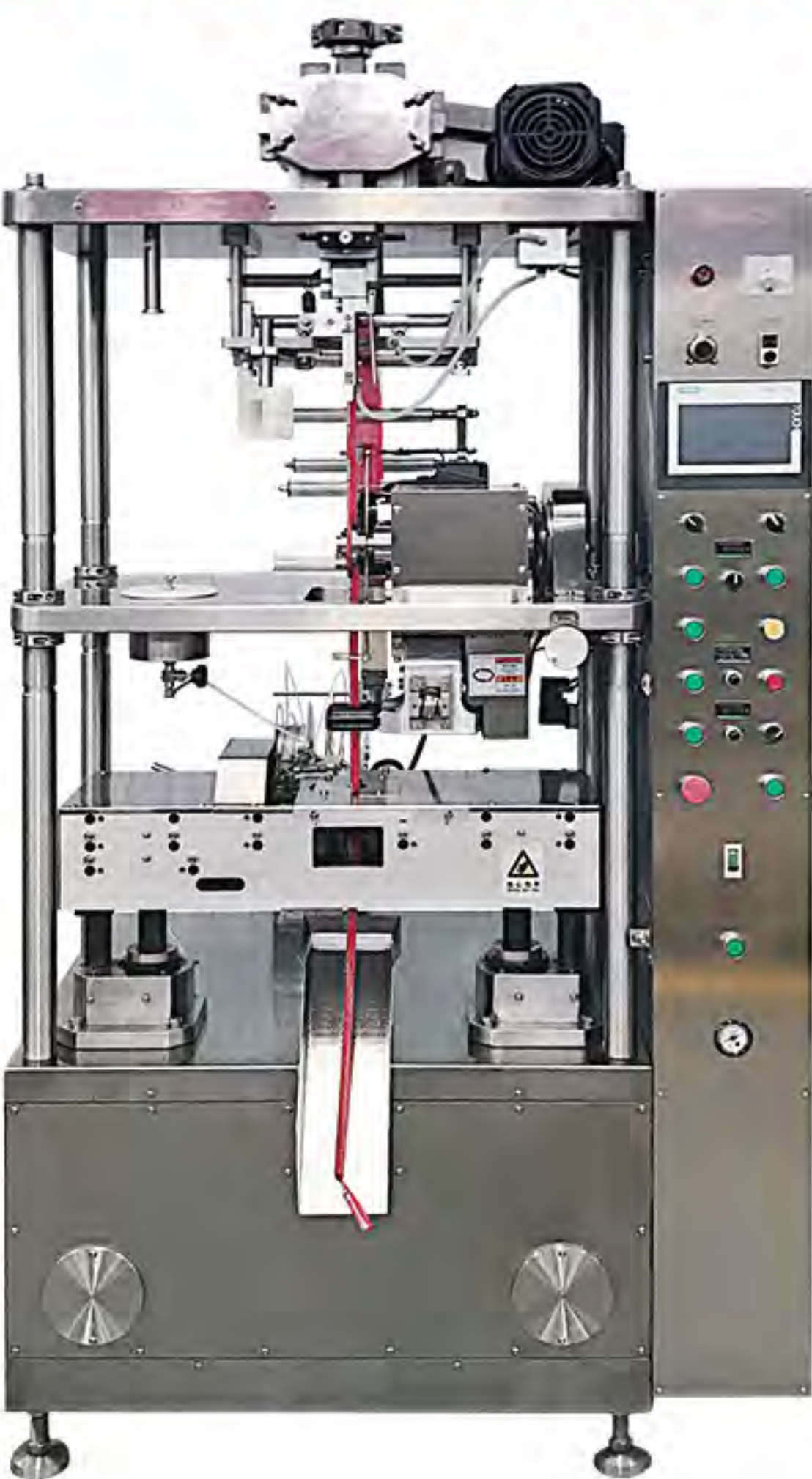


本机采用优质的机身结构，比传统的机型具有操作方便、故障率低、维修维护简单的特点。本机型最高机速为200支/分钟，长期运行生产机速为160支/min。

This machine adopts advanced body structure and compare with the traditional model which has the features of convenient operation, low failure rate and simple maintenance, the highest speed of this machine is 200 pcs/min and long-time running speed is 160 pcs /min.

最高生产速度 The highest running speed	160-200支/分钟 160-200 pcs/min
最大灌装重量 Maximum filling quantity	300g
产品尺寸范围 Product length range	L90-250mm
最大功率 Maximum power	6.3KW
外形尺寸 Overall dimension	L810×W1120×H2200

LK-AF-160-200-S

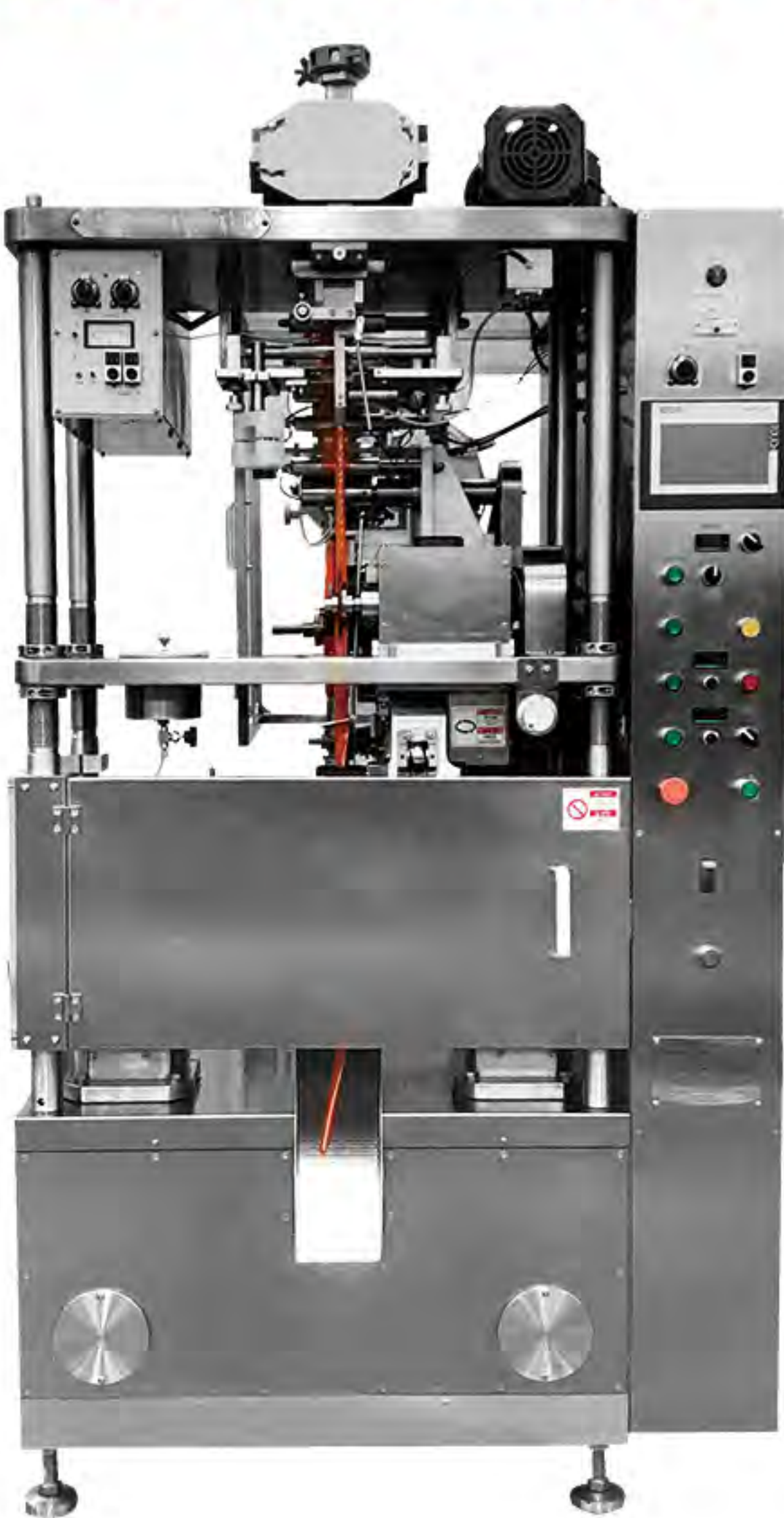


本机型是LK-AF-160-200机型的升级产品，在保留原设备特点的基础上增加喷码控制功能，实现开机第一支产品即有喷码，并且位置准确。

This machine is an upgraded product of LK-AF-160-200, The code spraying control function is added on the basis of retaining the characteristics of the original equipment, realize the code spraying on the first product upon it start, and in addition, the code location is very accurate.

最高生产速度 The highest running speed	160-200支/分钟 160-200 pcs/min
最大灌装重量 Maximum filling quantity	300g
产品尺寸范围 Product length range	L90-250mm
最大功率 Maximum power	7KW
外形尺寸 Overall dimension	L810×W1120×H2200

LK-AF-120YS1



本机型是易撕口机型，采用优质的高频焊接电源，易撕条焊接均匀牢固，撕开率达100%，生产带易撕口产品时机速可达到120支/min连续稳定运行，易撕条定位偏差±3mm以内，自动定位无需人工干预。生产无易撕口产品时机速可达160支/min，连续稳定运行。

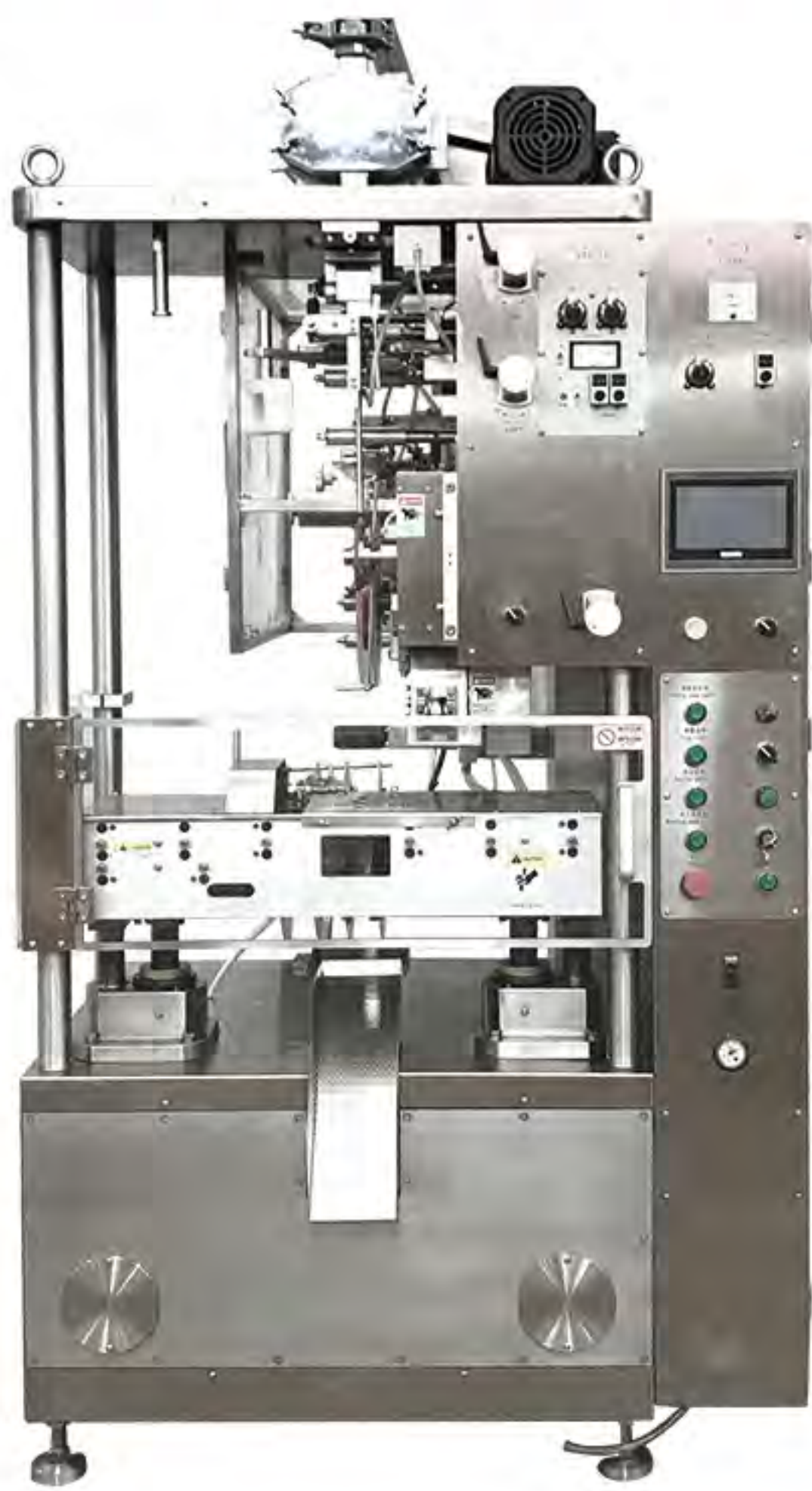
This machine equipped with the function of easy-peel, adopts advanced high frequency welding power supply, the tear strips are welded solidly and evenly and tear success rate up to 100%, when produce the product with easy-peel, the continuous stable operation speed could reach to 120 pcs / min, the tear tape positioning deviation within±3mm, automatic positioning dispense with manual intervention; When produce the produce without easy-peel, the continuous stable operation speed could reach to 160 pcs /min.

最高生产速度 The highest running speed	易撕口产品120支/分钟 For easy-peel product 120 pcs/min 非易撕口产品160支/分钟 For normal product 160 pcs/min
最大灌装重量 Maximum filling quantity	300g
产品尺寸范围 Product length range	L90-250mm
最大功率 Maximum power	7KW
外形尺寸 Overall dimension	L1480×W1120×H2200

火腿肠填充机

Sausage automatic filling machine

LK-AF-160YS1



本机型是易撕口机型，采用优质的高频焊接电源，易撕条焊接均匀牢固，撕开率达100%。本机采用优质的机体结构和过硬的制造技术，因此生产带易撕口产品时机速可高达160支/min连续稳定运行，易撕条定位偏差±1mm以内，自动定位无需人工干预。本机配备喷码控制功能，实现开机第一支产品即有易撕条和喷码，并且位置准确。

This machine equipped with the function of easy-peel, adopts advanced high frequency welding power supply, the tear strips are welded solidly and evenly and tear success rate up to 100%, because it adopts advanced body-structure and manufacturing technology, so when product the product with easy peel, the continuous stable operation speed could reach to 160 pcs /min and the tear tape positioning deviation within±1mm, automatic positioning dispense with manual intervention; The machine equipped with code spraying control function, realize the code spraying on the first product upon it start, and in addition, the code location is very accurate.

最高生产速度 The highest running speed	160支/分钟 160-200 pcs/min
最大灌装重量 Maximum filling quantity	300g
产品尺寸范围 Product length range	L90-250mm
最大功率 Maximum power	7.8KW
外形尺寸 Overall dimension	L1200×W1120×H2200

LK-AF-240



本机采用优质的机体结构和过硬的制造技术，往复台采用了与传统中低速机完全不同的结构，自动化程度高，设备稳定性更高，故障率低、便于保养维护。本机生产速度高达240支/min连续稳定运行。

The machine adopts advanced body - structure and manufacturing technology, The reciprocating box adopts a completely different advance structure from the traditional medium-l ow speed machine.High degree of automation, higher degree of equipment stability, low failure rate and easy for maintenance. The machine production speed in continuous and steady running is up to 240 pieces /min.

最高生产速度 The highest running speed	240支/分钟 240 pcs/min
最大灌装重量 Maximum filling quantity	100g
产品尺寸范围 Product length range	L100-220mm
最大功率 Maximum power	10KW
外形尺寸 Overall dimension	L1400×W1120×H2200

LK-AF-240YS1



本机型是易撕口机型，采用优质的高频焊接电源，易撕条焊接均匀牢固，撕开率达100%。本机采用优质的机体结构和过硬的制造技术，往复台采用了与传统中低速机完全不同的结构，因此生产带易撕口产品时机速可达220支/min连续稳定运行，易撕条定位偏差±1mm以内，自动定位无需人工干预。生产无易撕口产品时机速可达240支/min连续稳定运行。本机配备喷码控制功能，实现开机第一支产品即有易撕条和喷码，并且位置准确。

This machine equipped with the function of easy-peel, adopts advanced high frequency welding power supply, the tear strips are welded solidly and evenly and tear success rate up to 100%, it adopts the most advanced body-structure and manufacturing technology and the reciprocating box adopts a completely different advance structure from the traditional medium-low speed machine, so when produce the product with easy-peel, the continuous stable operation speed could reach to 220 pcs /min, the tear tape positioning deviation within±1mm, automatic positioning dispense with manual intervention; when produce the normal product, the continuous stable operation speed could reach to 240 pcs /min, The machine equipped with code spraying control function, realize the code spraying on the first product upon it start, and in addition, the code location is very accurate.

最高生产速度 The highest running speed	240支/分钟 240 pcs/min
最大灌装重量 Maximum filling quantity	100g
产品尺寸范围 Product length range	L100-220mm
最大功率 Maximum power	10KW
外形尺寸 Overall dimension	L1400×W1120×H2200

火腿肠填充机

Sausage automatic filling machine

易撕口夹心肠填充机

Easy-peel double filling sausage filler

易撕口夹心肠填充机是在单一原料易撕口填充机基础上增加了夹心功能的升级机型，该机采用独特的双料混合装置，弥补了以往单馅单一口味的缺陷，可实现双馅多口味、多营养搭配的市场多样化需求，该机型生产的易撕口夹心肠，通过易撕条方便打开，食用安全卫生，克服了传统火腿肠食用不方便的缺陷。

设备采用双地面泵、双机上泵，均为变频调速，两种料馅的定量均可独立增减，且均可单独控制，既可以生产普通夹心肠，又可以生产易撕口夹心肠，实现一机多用。本设备为生产易撕口夹心肠的关键设备。

Easy-peel double filling sausage filler is an upgrade model which adds the function of double filling on basis of the single material filling at easy-peel type sausage filler, adopts unique double mixing device, makes up the defect of previous single filling with one taste, realizes double filling with multiple tastes and nutrition collocation of market diversification demand, the produced easy-peel sausage easy to open via the easy-peel strip, safe and hygienic for eating, overcome the defect of traditional retort sausage inconvenient eating. The sausage filling machine adopts double feeding pumps, double metering pumps design, both of them controlled by independent frequency converter which can realize the separate control of two kinds of material quantitative filling, the quantification of two kinds filling can be increased or decreased independently ,It can produce regular double filling sausage, also can produce easy-peel double filling sausage, to achieve the function of one machine with multi-usage. It is the key machine to produce easy-peel double filling sausage.



设备参数 Equipment parameter	
填充速度 Filling speed	最快160~200支/分钟 (根据产品尺寸会有限制) 160-200 pcs/min(Depends on the size of the sausage)
制袋折叠宽度 Bag folding width	20~50mm
切膜长度 Film cutting length	90~250mm
模具 Mould	K1~K2
最大功率 Max power	12kW
电源 Power supply	380V 50HZ 50A
外形尺寸 Main unit dimension	L1300×W1320×H2200

普通夹心肠填充机

Double filling sausage filler

夹心肠填充机是由单一原料机型的改进的机型，采用独特的双料混合装置，弥补了以往单馅单一口味的缺陷，可实现双馅多口味、多营养搭配的市场多样化需求，设备采用双地面泵、双机上泵，均为变频调速，两种料馅的定量均可独立增减，且均可单独控制，实现一机多用。本设备为生产夹心肠制品的关键设备。

Double filling sausage filler is the improved model on basis of the single material filling sausage filler, adopts unique double mixing device, makes up the defect of previous single filling with one taste, realizes double filling with multiple tastes and nutrition collocation of market diversification demand.The sausage filling machine adopts double feeding pumps, double metering pumps design, both of them controlled by independent frequency converter which can realize the separately control of two kinds of material quantitative filling, the quantification of two kinds filling can be increased or decreased independently,to achieve the function of one machine with multi-usage. It is the key machine to produce double filling sausage.



设备参数 Equipment parameter	
填充速度 Filling speed	最快160~200支/分钟 (根据产品尺寸会有限制) 160-200 pcs/min(Depends on the size of the sausage)
制袋折叠宽度 Bag folding width	20~50mm
切膜长度 Film cutting length	90~250mm
模具 Mould	K1~K2
最大功率 Max power	11kW
电源 Power supply	380V 50HZ 50A
外形尺寸 Main unit dimension	L810×W1320×H2200

移动式给料泵 Self-propelled feeding pump

本设备是由料斗、螺旋推进装置、特制叶片泵、管道、行走机构组成的一款可移动式给料泵，主要用于灌装机的给料，替代传统的提升机上料。

This equipment is a self-propelled feeding pump, consisted by hopper, screw propulsion unit, special vane pump, pipes, self-propelled device, mainly used for feeding the filling machines, replaced the traditional lifting machine feeding type.

产品特点 Product characteristic

- 1

单次装载量大，一次装载可给多台灌装机给料，效率高、节约人工、降低劳动强度。
single loading capacity is big and could feeding multi filling machines, high efficiency, saving labor cost, reducing the labor intensity.
- 2

替代斗车和提升机，节省投资，使车间更加宽阔，节约空间。
could replace the bucket trolley and lifting machine, Save investment, stave space and make the workshop more spacious.
- 3

减少原料接触面，降低交叉污染，提高产品卫生标准和产品质量。
Reduce the amount of raw material contact surface and bring down the cross contamination, improve product hygiene standards and the product quality.



移动式给料泵技术参数 (The technical parameter of Self-propelled feeding pump)

型号 (Model)	输送能力 (Feeding Capacity)	泵功率 (Pump power)	外形尺寸 (Overall dimension)	适合输送的物料 (The applicable material for transport)
LK-BC120-1000D	120L/min	5.5kw	L2400×W1300×H1700mm	可流动肉泥料馅, 允许有颗粒物 (The flowing minced meat fillings, granuliform meat is also applicable)
LK-BC120-2000D	120L/min	5.5kw	L3100×W1700×H1700mm	
LK-BC120-3000D	120L/min	5.5kw	L3600×W2100×H1700mm	
也可根据用户需求提供非标设备 (Non-standard Model customized according to customer requirement)				

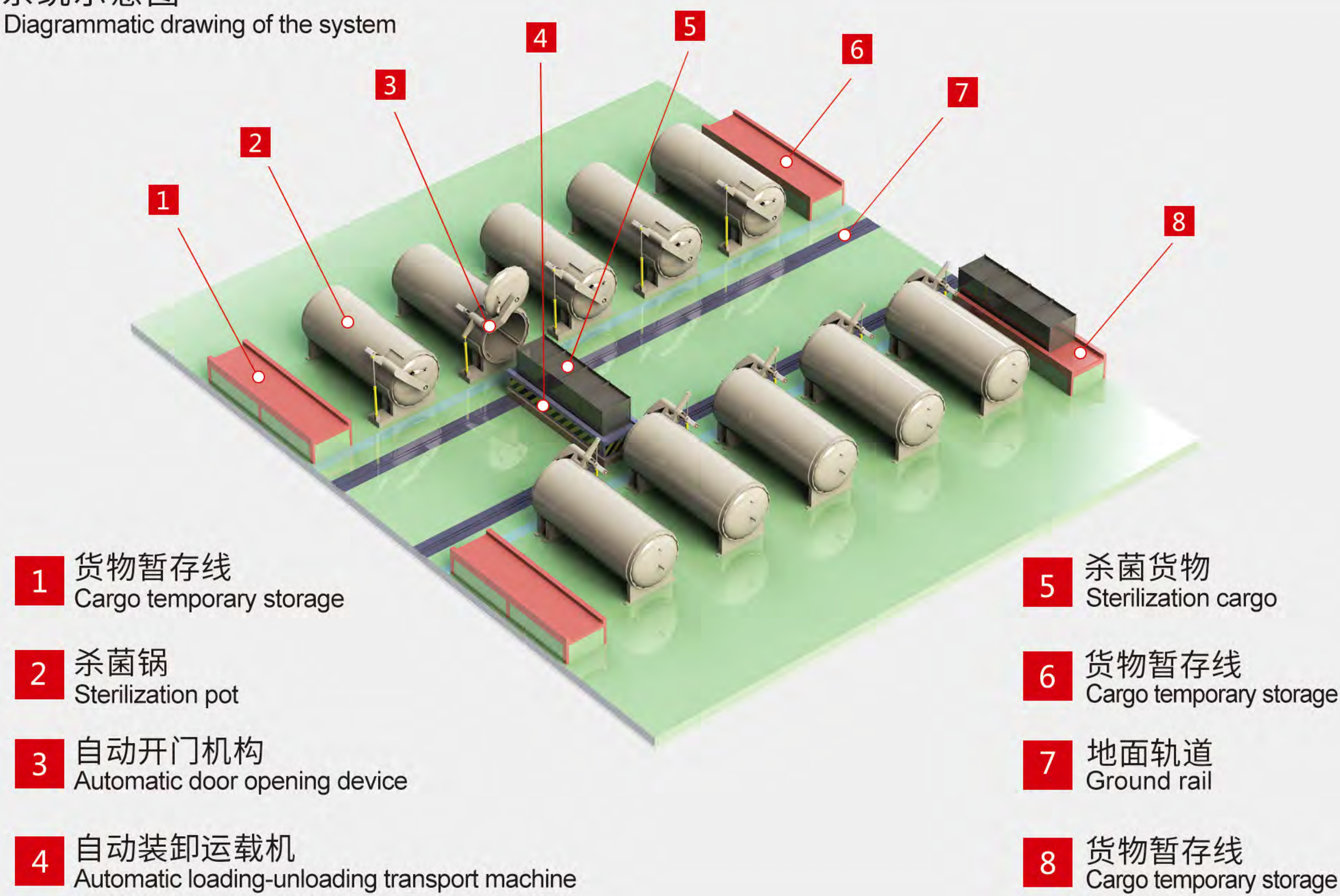


杀菌锅自动装卸及货物周转系统

Retort automatic loading-unloading and cargo turnaround system

- 自动装锅
Automatic loading
- 自动出锅
Automatic unloading
- 自动周转
Automatic turnaround
- 远程管理
Remote management

系统示意图
Diagrammatic drawing of the system



该设备实现了杀菌锅自动装锅、自动出锅，以及杀菌货物的自动化周转。完全取代人工劳动，配套液压开门杀菌锅可实现杀菌环节无人化；自主专利技术；预留升级空间，可实现远程管理。

The system realize the sterilization pot automatic loading, automatic unloading and automatic turnaround the sterilization cargo. Totally replace manual labour, equipped with hydraulic door release device, realize sterilization pot unmanned. Originated by Lianke and applied patented technology .Reserve upgrade space, remote management could be realized .

自动装卸运载机技术参数 The technical parameter of automatic loading-unloading transport machine

型号 (Model)	装卸锅平均时间 (loading-unloading average time)	最高行走速度 (Max running speed)	最大载重 (Max load capacity)	总功率 (Total Power)	外形尺寸 (Overall dimension)
LK-ALT-1515	2min	1.5m/s	1.5T	19kw	L3620×W1820×H1500mm



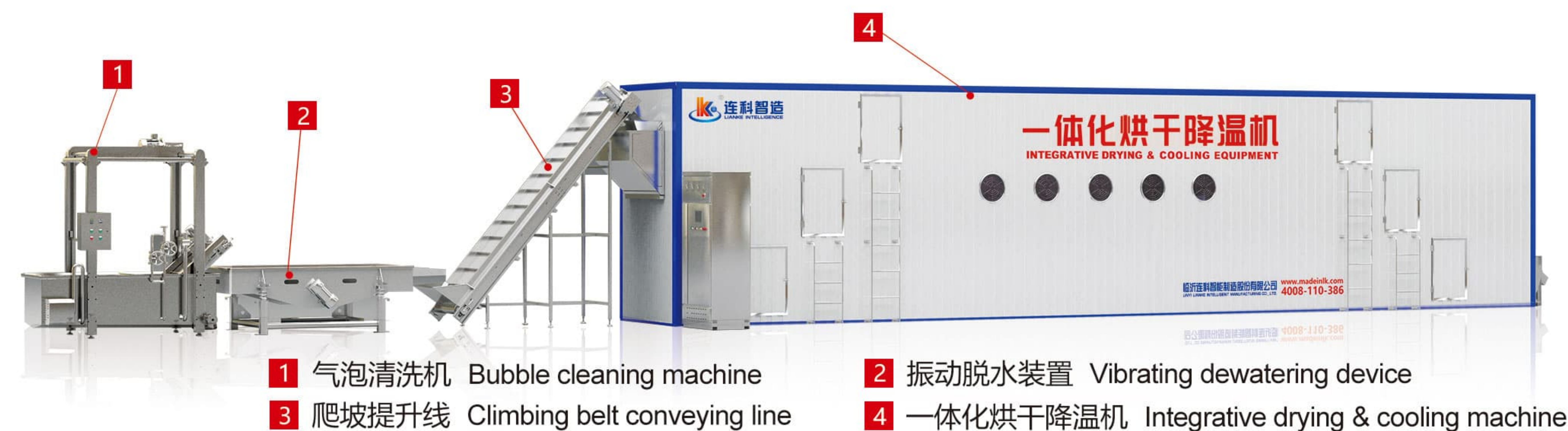
节能型自动上料清洗烘干线

Energy-saving automatic feeding-washing-drying line

三层高效烘干机 Three-layers high energy efficiency dryer

全自动节能型火腿肠清洗烘干生产线由自动翻盘上料机-恒温型气泡清洗机-振动脱水装置-爬坡提升机-节能型一体化烘干降温机组组成。具有自动上料功能，用于清洗火腿肠肠体表面残留物、油渍；实现火腿肠自动清洗和快速节能烘干；解决火腿肠霉头问题。

Full automatic energy-saving sausage washing and drying production line is composed of automatic unloader, dewatering vibrating equipment, climbing conveyor, energy-saving integrated drying and cooling machine, with automatic feeding function and used for clean the residue and oil stains on the surface of the sausage, realizes automatic cleaning and quick energy saving drying; solve the problem of the both ends of the sausage going mouldy.



全自动火腿肠清洗烘干生产线特点

- 创新设计，获得国家专利认证，改变了传统生产模式，从进料一次性完成清洗、烘干、降温过程，完全流水化生产，占地尺寸小，进料到出料40-60分钟，出料产品温度28-35℃，可直接包装。
- 采用低温烘干，保证产品口感和质量；
- 特有的卫生级设计，实现设备快速清洗，避免细菌残留；
- 采用新式箱体结构和通风设计，采用优质阻燃保温材料，采用进口蒸汽控制阀和专利温控程序，使设备在使用过程中消耗最低的能源达到产品烘干标准。
烘干后的火腿肠结扎头含水量≤0.30%（金锣实验室数据）。
- 整体设计与火腿肠生产企业紧密结合，经多项测试和不断升级，最大化匹配火腿肠生产过程工艺特点。

Full automatic sausage cleaning & drying production line characteristic

- Innovative design, obtaining the national patent certification, changing the traditional production models, complete the process of cleaning, drying and cooling in one-time, completely streamlined production, small occupation area, from input to output just need 40-60 minutes, output product temperature 28-35℃, the product can be packaged directly.
- Adopting by low temperature drying to ensure the good taste and quality.
- Innovative sanitation design, realized quick cleaning of the equipment, avoid bacteria residual.
- Adopt new type box structure and ventilation design, high quality anti-flaming thermal insulation material, imported steam control valve and patented temperature control procedure, realizes the machine using the lowest energy consumption to meet the product drying standard. After drying, the water content at the both end of the sausage ≤0.30%.
- Integrated design and closely combined with sausage manufacturer, by the multiple test and constantly upgrade, maximization matching the processing characteristic during the sausage production.

节能型自动上料清洗烘干线

Energy-saving automatic feeding-washing-drying line

单层高效烘干机 Single-layer high energy efficiency dryer

本机型适用于烘干真空袋装食品，例如卤蛋、凤爪、小肉枣、小台烤肠、脆脆肠、卤猪蹄、卤鸡腿、烧鸡、三文治等各类袋装和带塑料包装的食品。本机型采用先进的结构设计，产品干燥均匀，不会造成产品摔打损伤，烘干时间短效率高，节约能耗。

This machine is suitable for drying vacuum bagged food, such as marinated eggs, chicken feet, small taiwan roasted sausage, marinated pig feet, stewed chicken leg, roasted chicken, sandwich ham and other kinds of food which is in bags and plastic packaging. This machine adopts advanced structure design, the product is dried evenly, the product will not be damaged by falling, the drying time is short with high efficiency and energy saving.



适合产品 Applicable product



节能型自动上料清洗烘干线

Energy-saving automatic feeding-washing-drying line

技术参数 Technical parameter

新一代烘干机 New generation drying machine					
型号 (Model)	产量 (Capacity)	外形尺寸 (Overall dimension)	主机功率 (Main unit power)	制冷机电功率 (Refrigerating unit power)	蒸汽消耗量 (Steam consumption)
LK-HG-10	1.0T/h	L8000×W2300×H3400mm	16kw	15kw	0.15T/h
LK-HG-20	2.0T/h	L12000×W2500×H3400mm	27kw	30kw	0.25T/h
LK-HG-30	3.0T/h	L12000×W2900×H3400mm	48kw	43kw	0.3T/h
LK-HG-60	6.0T/h	L12000×W5000×H3400mm	96kw	86kw	0.5T/h
也可根据用户需求提供非标设备 (Non-standard model customized according to customer requirement)					

自动恒温气泡清洗机 Automaitc constant temperature bubble cleaning machine					
产量 (Capacity)	加热温度 (Heating temperature)	蒸汽消耗量 (steam consumption)	机体材质 (Main body material)	总功率 (Total Power)	外形尺寸 (Overall dimension)
最大3T/H 可调速 (Maximum 3T/h, adjustable)	30℃-50℃自动恒温 (30℃-50℃ Automatic constant temperature)	0.1-0.2T/h	SUS304	2.6kw	L2700×W1580 ×H2795mm



节能型自动上料清洗烘干线

Energy-saving automatic feeding-washing-drying line

自动翻盘上料机 Automatic unloader

LK-FP-30型自动翻盘上料机，是针对杀菌盘自动翻转倒料而设计的一款自动化设备。分为满盘和空盘两个工位，使用时，人工将满盘推到满盘工位，在空盘工位放置好底车后关闭防护门，按下启动按钮设备即按预定程序将满盘提升，并逐个拿取杀菌盘进行倒料，倒料后的空盘由空盘工位的夹具拿取回收并码垛，完成一车后系统提示翻盘完成，人工将空车推走，重复以上循环连续工作。

LK-FP-30 Automatic pouring machine is an automation equipment in the food industry, it was designed for sterilization pallet automatic rollover, while working, put the full sterilization pallets on full pallets station, put the trolley on the empty pallets station, then close the protective door, pressing the starting button, as per the scheduled program the full sterilization pallets will be raised and the sterilization pallet will be taken for pouring the material one by one, the empty sterilization pallet will be collected and stacked on the trolley automatically, when all the full pallets become empty pallets, the equipment will send a signal that informs the whole process is finished, the worker can remove the trolley, then repeat the cycle to continue this process.

设备特点 Equipment Characteristic

- 自动倒料，节省人工成本。
Automatic pouring, save the labor cost.
- 卫生级设计，整机304不锈钢材质。
Hygienic design, main unit was made by 304 stainless steel.
- 自动运行，稳定可靠。
Automatic operation, stable and reliable.
- 采用国内品牌硬齿面斜齿轮减速电机，超长寿命、低能耗。
Adopt domestic brand helical gear motor with hard tooth surface, ultra-long life ,low-energy consumption .



自动翻盘上料机 Automatic unloader

型号 (Model)	产量 (Capacity)	总功率 (Total Power)	空气压缩要求 (Requirement of the compressed air)	外形尺寸 (Overall dimension)
LK-FP-30	3000kg/h	6kw	0.5-0.7Mpa 0.05m³/min	L3595×W4015×H2030mm

节能型巴氏杀菌机 *Energy-saving pasteurization machine*

设备特点 Equipment characteristic

- 1

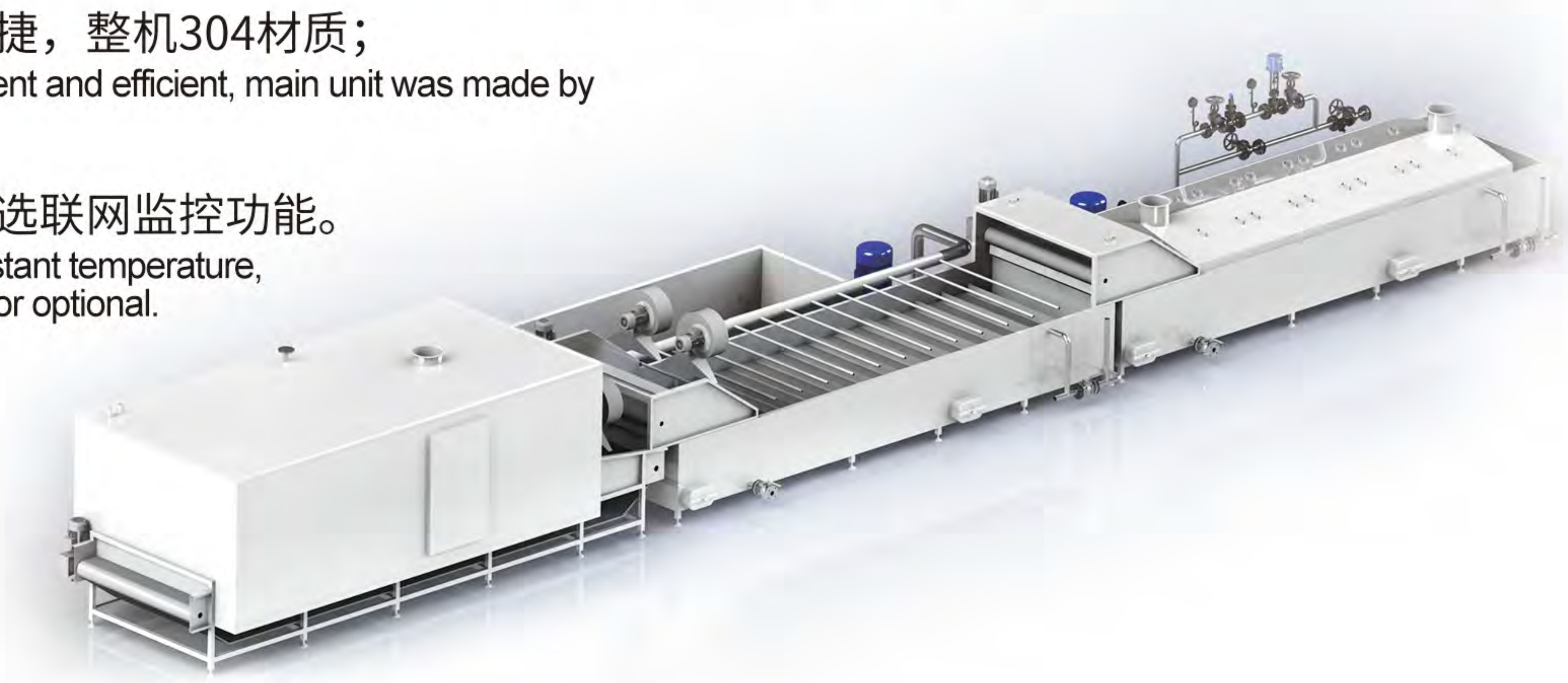
连续式杀菌，杀菌冷却同时完成；
Continuous sterilization, sterilization and cooling completed at the same time.
- 2

多方位保温，节能高效；
Multi directional heat preservation, efficient energy-saving.
- 3

采用进口减压阀和蒸汽调节控制阀以及专利温控程序、先进的热对流方式，确保设备在使用过程中具备低于同类设备的能耗；
Imported pressure reducing valve, steam regulating control valve, patented temperature control procedure and advanced heat convection mode are adopted to ensure that the energy consumption of the equipment is lower than that of similar equipment.
- 4

卫生级设计，清洗方便快捷，整机304材质；
Hygiene design, cleaning convenient and efficient, main unit was made by 304 stainless steel.
- 5

自动运行、自动恒温，可选联网监控功能。
Automatic running, automatic constant temperature, networking monitoring function is for optional.



整条生产线技术参数（含冷却段、烘干段）

The Whole production line technical parameter (Including cooling process and drying process)

型号 (Model)	产能 (Capacity)	总功率 (Total Power)	耗冷量 (refrigeration consumption)	耗水量 (water consumption)	耗蒸汽量 (water consumption)	外形尺寸 (Overall dimension)
LK-DLS-1000	1000kg/h	31.7kw	85kw/h	0.4m ³ /h	0.16T/h	L18950×W3830×H1500/2200mm
LK-DLS-2000	2000kg/h	54kw	170kw/h	0.6m ³ /h	0.32T/h	L27950×W4030×H1500/2200mm

适合产品 Applicable product

本机适合袋装真空包装的肉制品，如各类香肠、火腿、烤肉，袋装的酱菜、休闲食品、乳制品等。

The application for bag vacuum-packed food, such as all kinds of sausage, ham, roast meat, pickled vegetables, snack food, dairy products and so on.



火腿肠智能柔性装箱机
 Intelligent & flexible sausage carton packing machine

该设备实现火腿肠自动上料、自动整理、自动计数、自动装箱。

The equipment realizes the bar-shaped object (for example sausage , explosive, medicine, and etc) automatic feeding, automatic arranging , automatic accounting, automatic packing.

设备特点
 Equipment characteristic

- 1
 全自动化运行，无需看管；
 Full automation operation, no need caretaker .
- 2
 柔性化设计，触摸屏一键切换规格；
 Flexible design, touch screen one-key to switch the specification.
- 3
 前端可连接自动烘干机、自动开箱机、后端连接自动封箱机，组成自动化生产线；
 The front end could connect with automaticdrying machine, automatic carton forming machine, and the rear end could connect with automatic folding & sealing machine, to build a complete automatic production line.
- 4
 结构简洁可靠，易于维保。
 Simple structure easy to maintenance.



技术参数
 Technical parameter

型号 (Model)	装箱速度 (Speed)	适用产品尺寸 (Packing product size range)	压缩空气要求 (Requirement of the compressed air)	总功率 (Total Power)	外形尺寸 (Overall dimension)
LKZX-R600-25-200	300-500pcs /min	Ø15-25mm,L150-200mm	0.5-0.7Mpa 0.15m³/min	6kw	L8850×W1480×H2760mm
LKZX-R600-35-200	300-500pcs /min	Ø25-35mm, L150-200mm	0.5-0.7Mpa 0.15m³/min	6kw	L8850×W1480×H2760mm

适合包装的产品
 Flexible design, touch creen one-key to switch the specification

 火腿肠、规则的条状物散装装箱。
 Sausage, regular bar-shaped bulk packing

Q香肠自动装箱机 Q shaped sausage automatic carton packing machine

该设备实现Q香肠自动整理、自动计数、自动装箱。

The equipment realizes the Q shaped sausage automatic arranging, automatic counting, and automatic packing.

设备特点 Equipment characteristic

- 1 全自动化运行，无需看管；
Full automation operation, no need caretaker.
- 2 柔性化设计，触摸屏一键切换规格；
Flexible design, touch screen one-key to switch the specification
- 3 前端可连接自动烘干机、自动开箱机、后端连接自动封箱机，组成自动化生产线；
The front end could connect with automatic drying machine, automatic carton forming machine, and the rear end could connect with automatic folding & sealing machine, to build a complete automatic production line.
- 4 结构简洁可靠，易于维保；
Simple structure easy to maintenance.

适合包装的产品 The suitable packed product

- Q香肠
Q shaped sausage
- 椭圆形香肠
oval shaped sausage



休闲食品自动装箱机 / 凤爪自动装箱机 / 卤蛋自动装箱机

Snack food automatic carton packing machine /chicken claw automatic carton packing machine /Marinated egg automatic carton packing machine

该设备实现各类小包装的休闲食品，如小台烤肠、豆干、凤爪、卤蛋、卤猪皮等类似包装方式和形状物品的自动计数、自动装箱。

The equipment realizes all kinds of small packed snack food automatic accounting and automatic packing, the product packing type and shape similar to the smoked small sausage, dried tofu , chicken claw, marinated egg and etc.



设备特点 Equipment characteristic

- 1 全自动化运行，无需看管；
Full automation operation, no need caretaker;
- 2 柔性化设计，触摸屏一键切换规格；
Flexible design, touch screen one-key to switch the specification;
- 3 前端可连接自动烘干机、自动开箱机、后端连接自动封箱机，组成自动化生产线；
The front end could connect with automatic drying machine, automatic carton forming machine, and the rear end could connect with automatic folding & sealing machine, to build a complete automatic production line;
- 4 结构简洁可靠，易于维保。
Simple structure easy to maintenance.

产品技术参数 Product technical parameter

型号 (Model)	装箱速度 (Speed)	适用产品 (Applicable product)	装箱方式 (Packing type)	压缩空气要求 (Requirement of the compressed air)	总功率 (Total Power)	外形尺寸 (Overall dimension)
LK-XZ-Z102	150-300支/min 150-300 pcs /min	小包装休闲食品 (small packaged snack food)	计数 (counting)	0.5-0.7Mpa 0.05m³/min	4.2kw	L2300×W2500×H2450mm

适合包装的产品
The suitable packed product

- 小台烤肠
smoked small sausage
- 豆干、凤爪
dried tofu, chicken claw
- 卤蛋、卤猪皮等类似小包装的各类休闲食品。
marinated egg and other kinds of snack food.

袋装火腿肠全自动装箱机 Full automatic bagged sausage packing machine

该设备实现袋装火腿肠的自动计数、自动装箱。
The equipment realizes the bagged sausage automatic accounting and automatic packing.

设备特点 Equipment characteristic

- 1

全自动运行，无需看管； Full automatic running, no need caretaker.
- 2

装箱效率高，最快120包/分钟； High packing efficiency, reach to 120 bags / min.
- 3

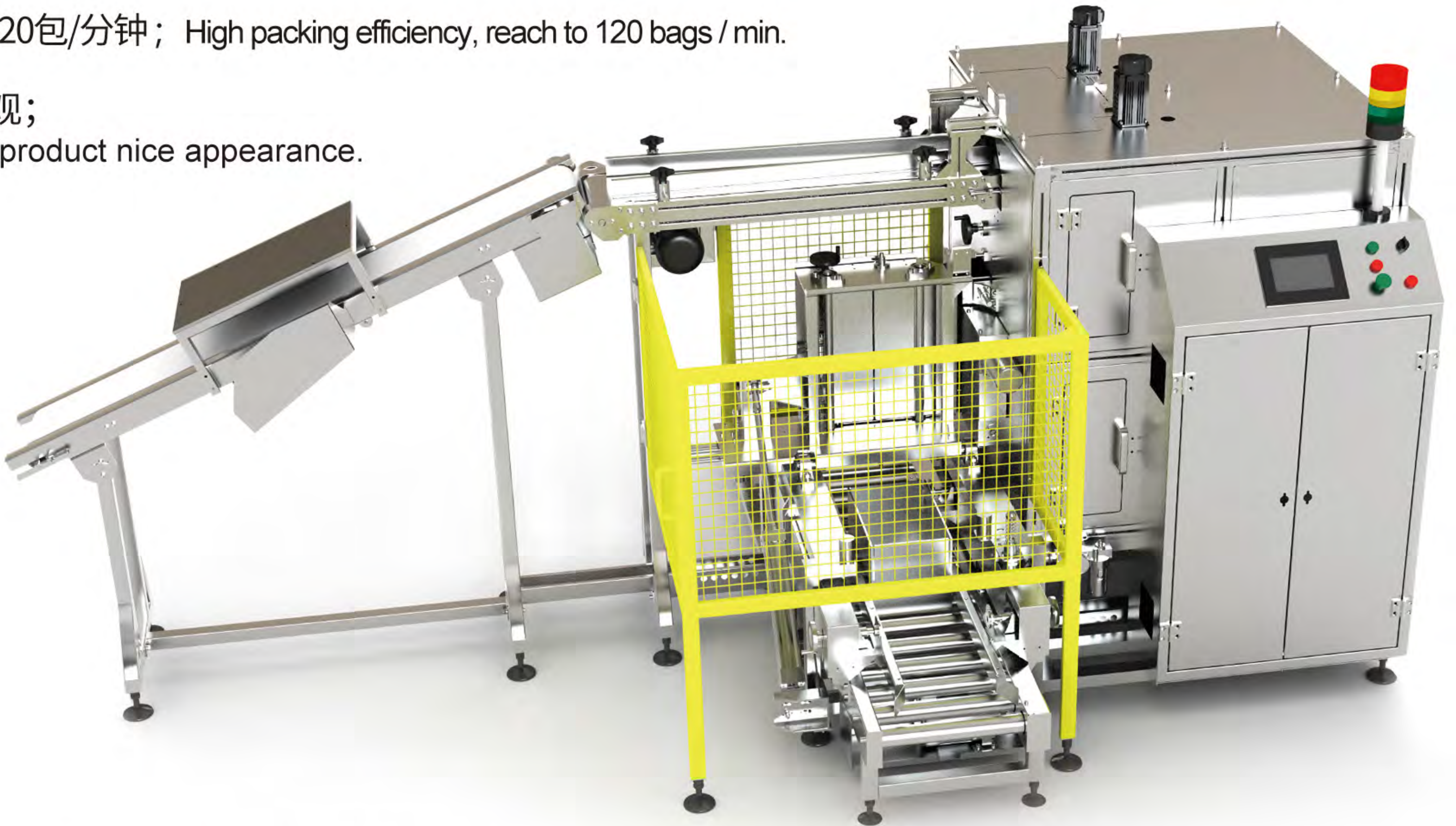
装箱整齐，产品美观；
Packing orderliness, product nice appearance.
- 4

数控技术，设备操作简单、维护方便； CNC technology, operation convenient, easy maintenance.
- 5

配备进料连袋剔除功能，堵料可自动报警； Equipped with the elimination function for jointed bags in the process of feeding, automatic alarm when material was blocked.
- 6

设备机体小巧，节省空间； Small dimension, saving space.
- 7

与枕式包装机连机使用，生产速度自动匹配。
Connect with pillow type packing machine, automatic matching the production speed.



适合包装的产品

The suitable packed product

- 袋装火腿肠
Bag packed sausage
- 与之类似包装的食品
The similar packed product



跌落式全自动装箱机 *Drop type full automatic carton packing machine*

该设备实现袋装产品的自动抚平，整理排序，自动计数，自动装箱。

The equipment realizes the bag packed product automatic flattening, automatic accounting, and automatic packing.

设备特点 *Equipment characteristic*

- 1** 全自动运行，无需看管； Full automatic running, no need caretaker
- 2** 来料不规则的产品可自动抚平； The irregular product flattening automatically
- 3** 整体不锈钢制作美观卫生。
Manufactured by stainless steel material, good appearance and health



适合包装的产品

The suitable packed product

- 袋装的丸子，
Bag packed all kinds of meat balls,
- 海鲜，
Seafood,
- 速冻的水饺等类似的产品。
Frozen bag packed dumplings and similar packed product.



全自动纸箱成型机（自动开箱机） Full automatic carton forming machine

该设备实现纸箱自动打开，自动折叠底面箱盖，自动封贴底面胶带。

The equipment realizes the carton forming automatically, Automatic folding the bottom cover, Automatic sealing the bottom cover by the tape.

LKCF-25 全自动高速纸箱成型机
LKCF-25 Full automatic carton forming machine



LKCF-12 全自动纸箱成型机
LKCF-12 Full automatic carton forming machine

型号 (Model)	开箱速度 (Speed)	适用纸箱尺寸 (Carton dimension range)	适用胶带宽度 (Tape width range)	压缩空气要求 (Requirement of the compressed air)	总功率 (Total Power)	外形尺寸 (Overall dimension)	重量 (weight)
LK-CF-12	12个/min (12 pcs/min)	L250-500mm W150-500mm H100-500mm	48mm	0.5-0.7Mpa 0.15m³/min	0.5kw	L2000×W1900×H1450mm	450kg
LK-CF-25	25个/min (25 pcs/min)	L250-510mm W150-400mm H70-330mm	30-48mm	0.5-0.7Mpa 1.1m³/min	2.0kw	L2300×W1230×H1730mm	1100kg

设备特点
Equipment characteristic

- 1 调节简便，切换规格方便
Simple adjustment, switch the specification convenient
- 2 纸箱成型效果好
Excellent carton forming effect
- 3 效率高
High efficiency



自动封箱机 Automatic carton folding & sealing machine

该设备实现装箱后的纸箱自动折叠上盖，并且自动封贴胶带。
The equipment realizes the packaged carton automatic folding the top cover and automatic sealing by tape.

设备特点 Equipment characteristic

- 1 调节简便，切换规格方便。
Simple adjustment, switch the specification convenient.
- 2 效率高达40箱/分钟。
Efficiency reach to 40 cartons / minutes.
- 3 封箱效果好，封箱机均可选上封或下封。
Excellent sealing effect,top sealing or top-bottom sealing are available.



半自动封箱机
Semi-automatic carton sealer



全自动封箱机
Full-automatic carton sealer

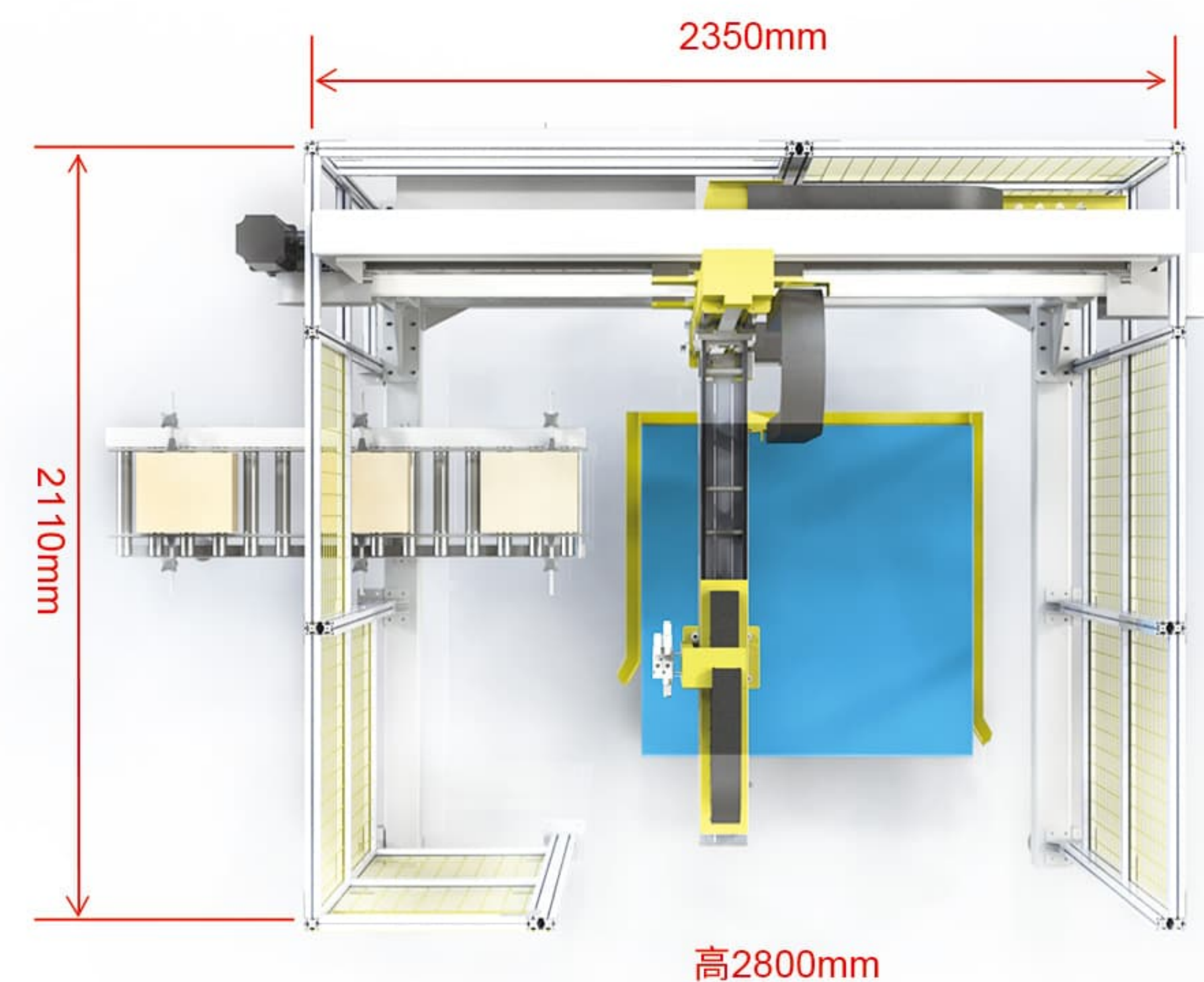
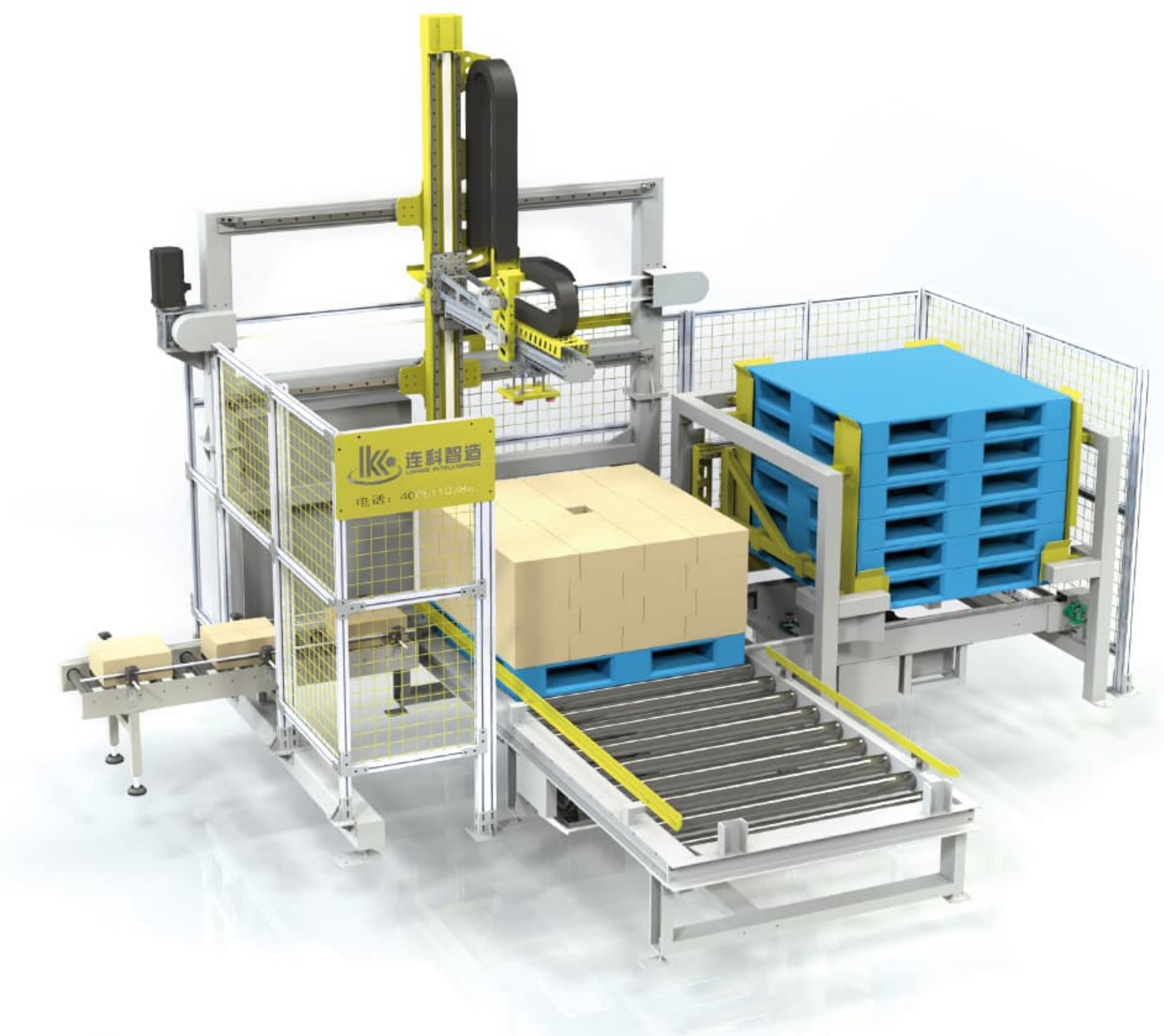
型号 (Model)	封箱速度 (Speed)	适用纸箱尺寸 (Carton dimension range)	适用胶带宽度 (Tape width range)	压缩空气要求 (Requirement of the compressed air)	总功率 (Total Power)	外形尺寸 (Overall dimension)	重量 (weight)
LK-FX-02	40个/min (40 pcs/min)	L200-600mm, W150-380mm, H80-300mm	30-48mm	0.5-0.7Mpa 0.05m³/min	0.4kw	L2100×W860×H1500mm	240kg
LK-FX-03	0-20m/min人工辅助	最大包装: L∞×W500×H600mm 最小包装: L150×W180×H150mm	W48/60/75mm 择一使用	0.5-0.7Mpa 0.05m³/min	0.24kw	L1020×W850×H1450	130kg



自动码垛机
 Lianke automatic palletizer

连科自动码垛机适用于纸箱类产品的自动化码垛，适用于多个行业，用途广泛，具备满垛自动提示功能，可与连科AGV自动叉车通讯，实现自动入库，构成后道包装码垛与出入库环节的无人化应用方案。本机可存储高达100种垛形数据，可快速切换不同垛形。本机采用符合工程力学的结构设计、特殊材料选用、特殊处理工艺、采用大型数控机床加工，保证了设备整体的性能和长久寿命。投资仅为机器人码垛系统的1/3，是一款高性价比的自动化设备。

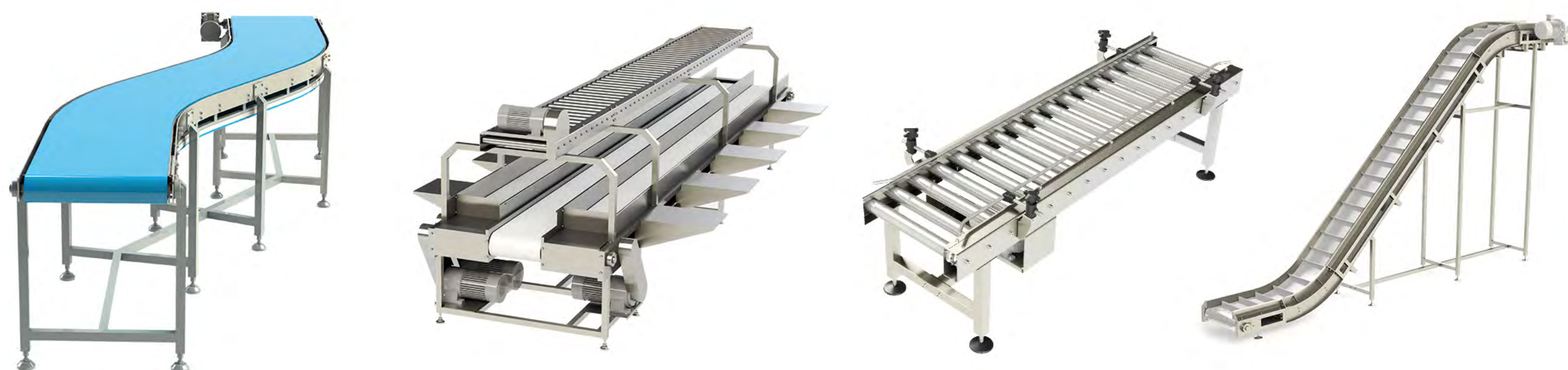
Lianke automatic palletizer is suitable for automatic palletization of carton products. It is suitable for many industries and widely used with full-palletization automatic prompt function, can communicate with Lianke AGV automatic fork lifter, to achieve automatic storage, constitute the unmanned application program of following packaging ,palletization and warehousing link. This machine is able to store up to 100 kinds of stack shape data, quickly switch between different stack shapes. The machine adopts the structural design in line with engineering mechanics, special material selection, special processing technology, and large numerical-control machine processing to ensure the overall performance and long life of the equipment. The investment is only 1/3 of the robot palletizing system, which is a cost-effective automation equipment.



连科自动码垛机技术参数表			
1	设备型号	LK-ZMD-410A-10	LK-ZMD-410C-10
2	码垛范围	1500*1000*1800mm（长*宽*高）	1500*1000*1800mm（长*宽*高）
3	重复定位精度	±2mm	±2mm
4	自由度	4轴	4轴
5	有效负载	10kg	10kg
6	抓手类型	吸盘式	吸盘式
7	循环周期	600次/h（10kg负载）	600次/h（10kg负载）
8	单轴速度	X轴1.2m/s,Y轴1.5m/s，Z轴1.2m/s	X轴1.2m/s,Y轴1.5m/s，Z轴1.2m/s
9	电源要求	AC 380V 50HZ	AC 380V 50HZ
10	气源要求	≥0.6Mpa	≥0.6Mpa
11	设备功率	4kw(码垛机本体)	4kw(码垛机本体)
12	耗气量	600L/min	600L/min
13	示教器功能	触摸屏，规格切换，速度调节，程序启停，信息提示等	触摸屏，规格切换，速度调节，程序启停，信息提示等
14	低压电器件	施耐德	施耐德
15	光电传感器	欧姆龙	欧姆龙
16	自动托盘库	×	√（满垛输出线高于地面450mm）
注：红色字体是两种型号有差别的地方。			

输送设备 *Conveying equipment*

常用输送线类型 *Common conveying line*



常用输送带型 *Common conveying belt*

01/ 皮带 / 可选带挡板 **Belt** / apron is for optional

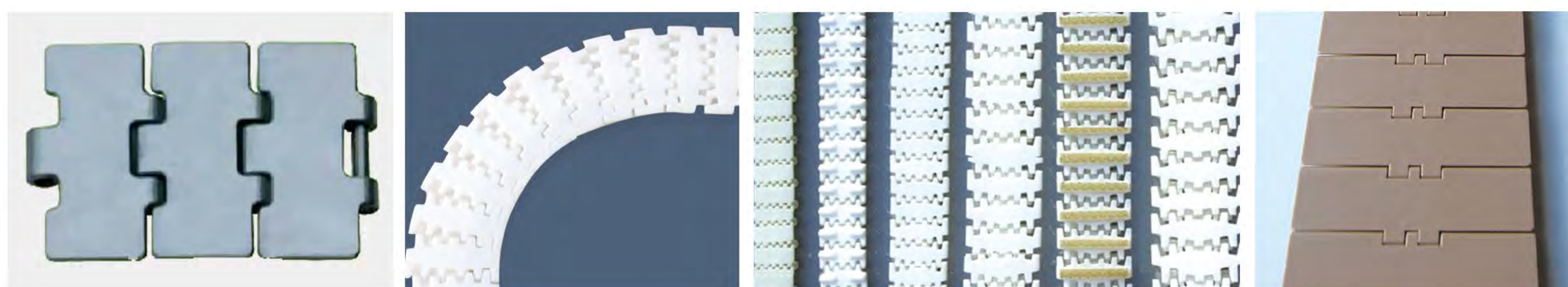
输送带材质和分类：PU、PVC、抗菌型、防粘型、肉馅输送专用型。

Conveying belt material and category: PU , PVC , Anti-microbial type , Anti-sticking type , special for meat fillings conveying type, and so on.



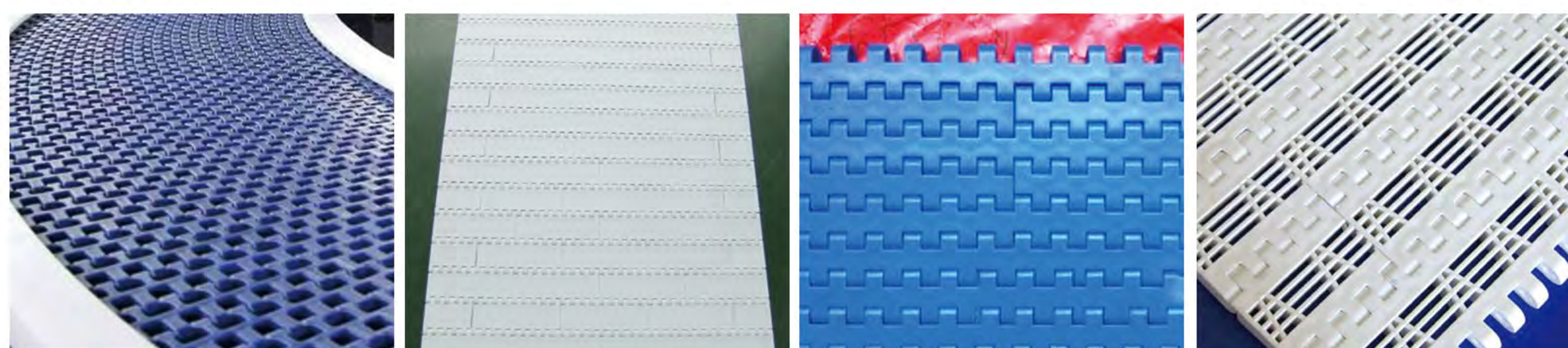
02/ 链带 / 可选带挡板 **Chain belt** / apron is for optional

输送带材质：POM、304不锈钢。Conveying belt material: POM, 304 Stainless steel .



03/ 模块网输送带 / 可选带挡板 **Module net conveying belt** / apron is for optional

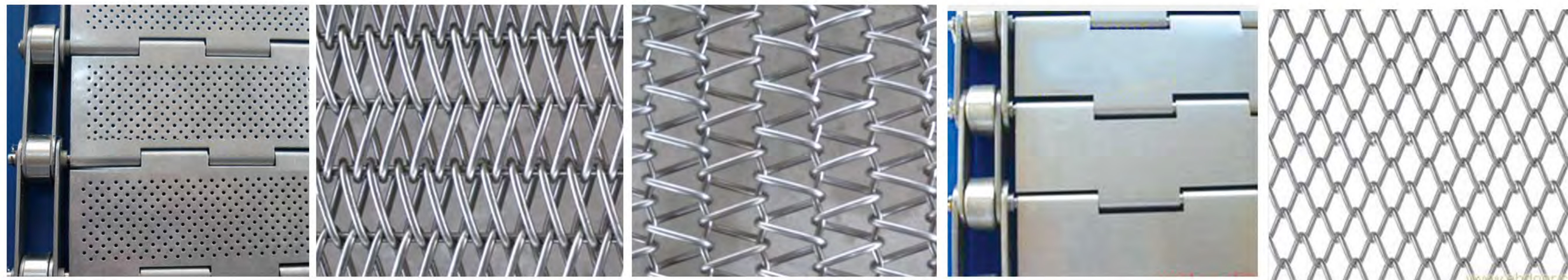
输送带材质：PP、PE、POM。Conveying belt material : PP 、 PE 、 POM.



输送设备 *Conveying equipment*

04/ 不锈钢网带 / 可选带挡板 *Stainless steel net belt / apron is for optional*

输送带材质：304不锈钢。Conveying belt material: 304 stainless steel.



05/ 滚筒 *Roller*

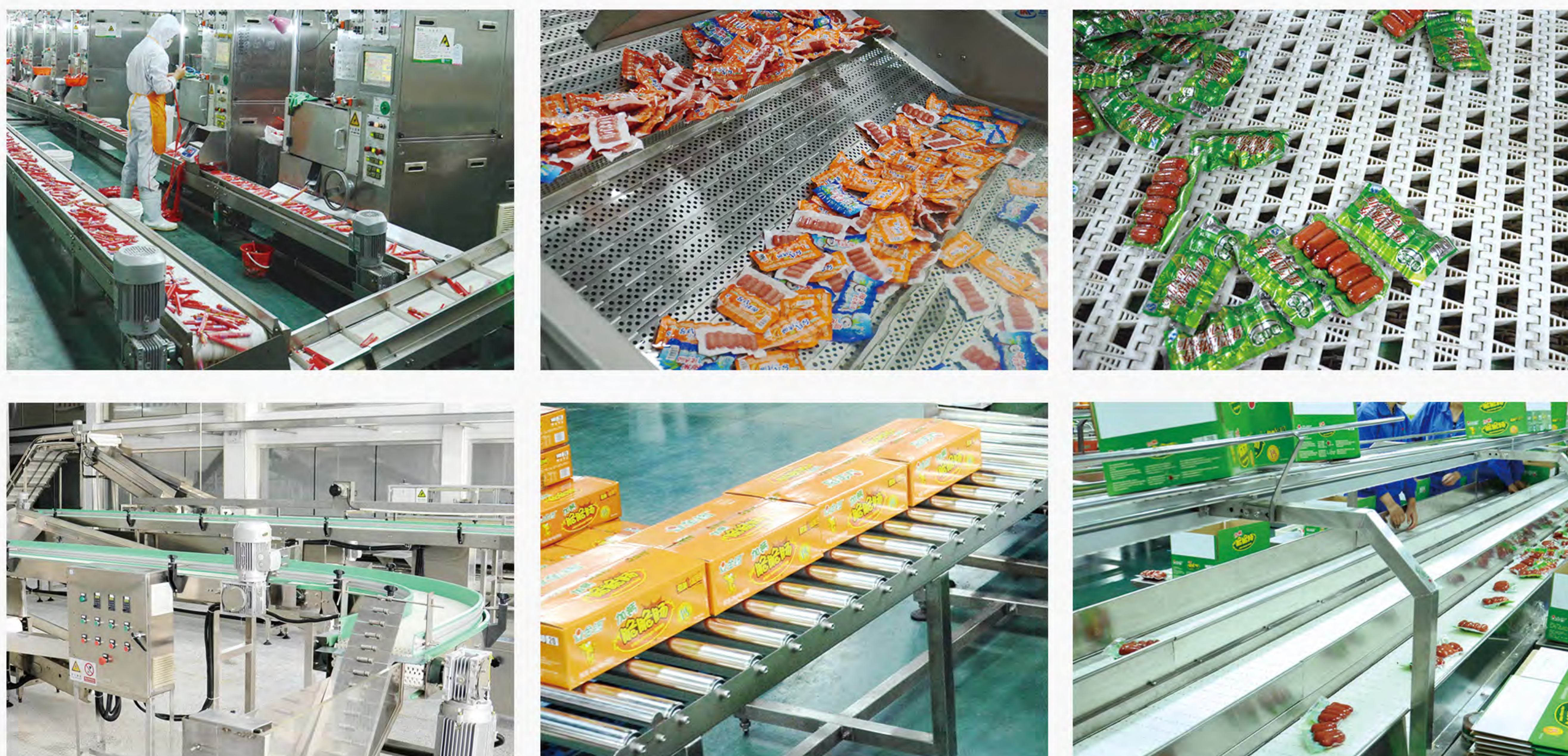
滚筒材质：304不锈钢、PVC、包橡胶型。Roller material: 304 stainless steel, PVC, Rubble covered. type.

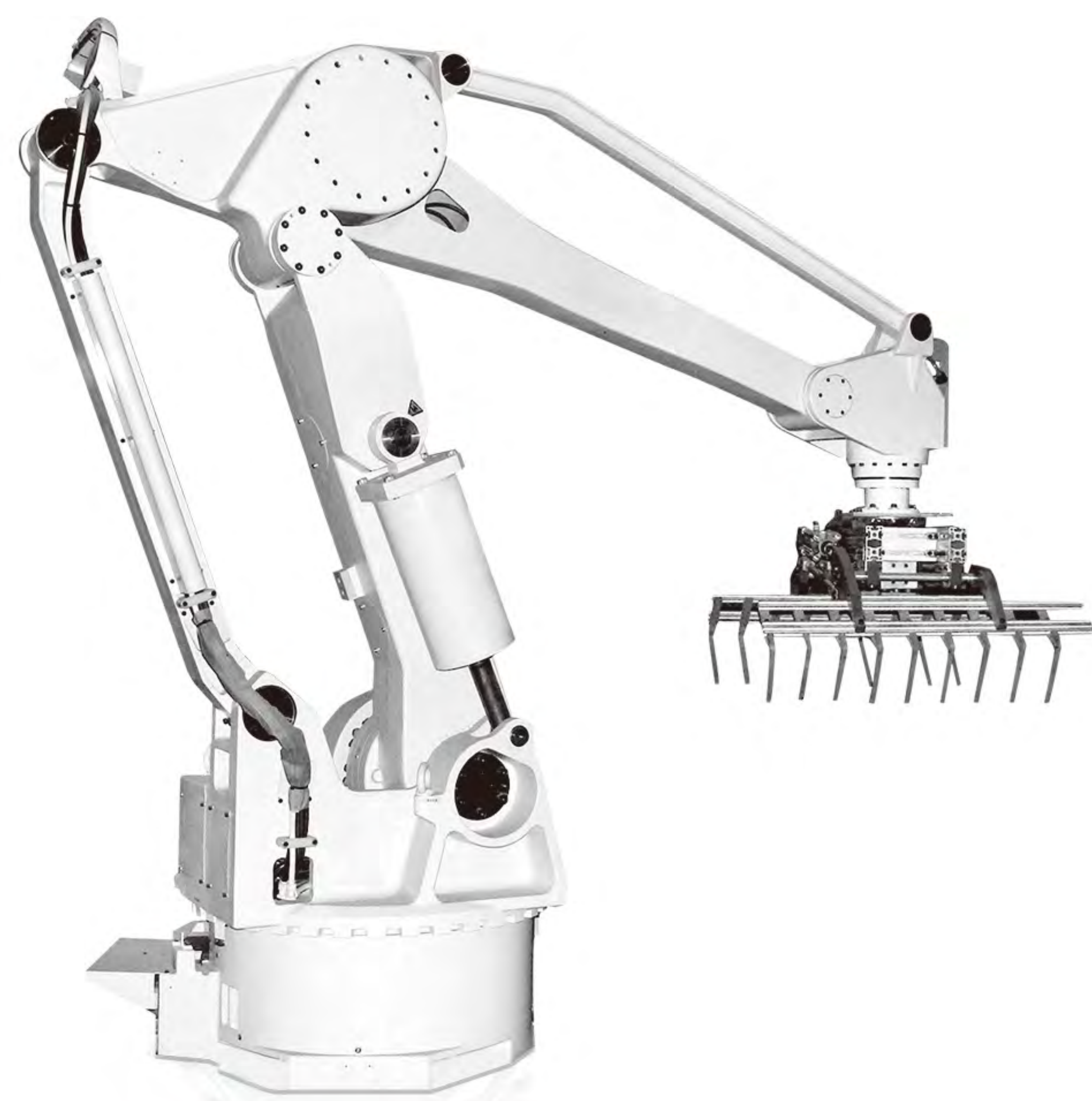


06/ 特种定制输送机 *Customized conveyor*

根据用户需求非标定制。Customized as per the customer requirement

| 肉制品行业应用案例 *Application case in meat industry*





串联系列

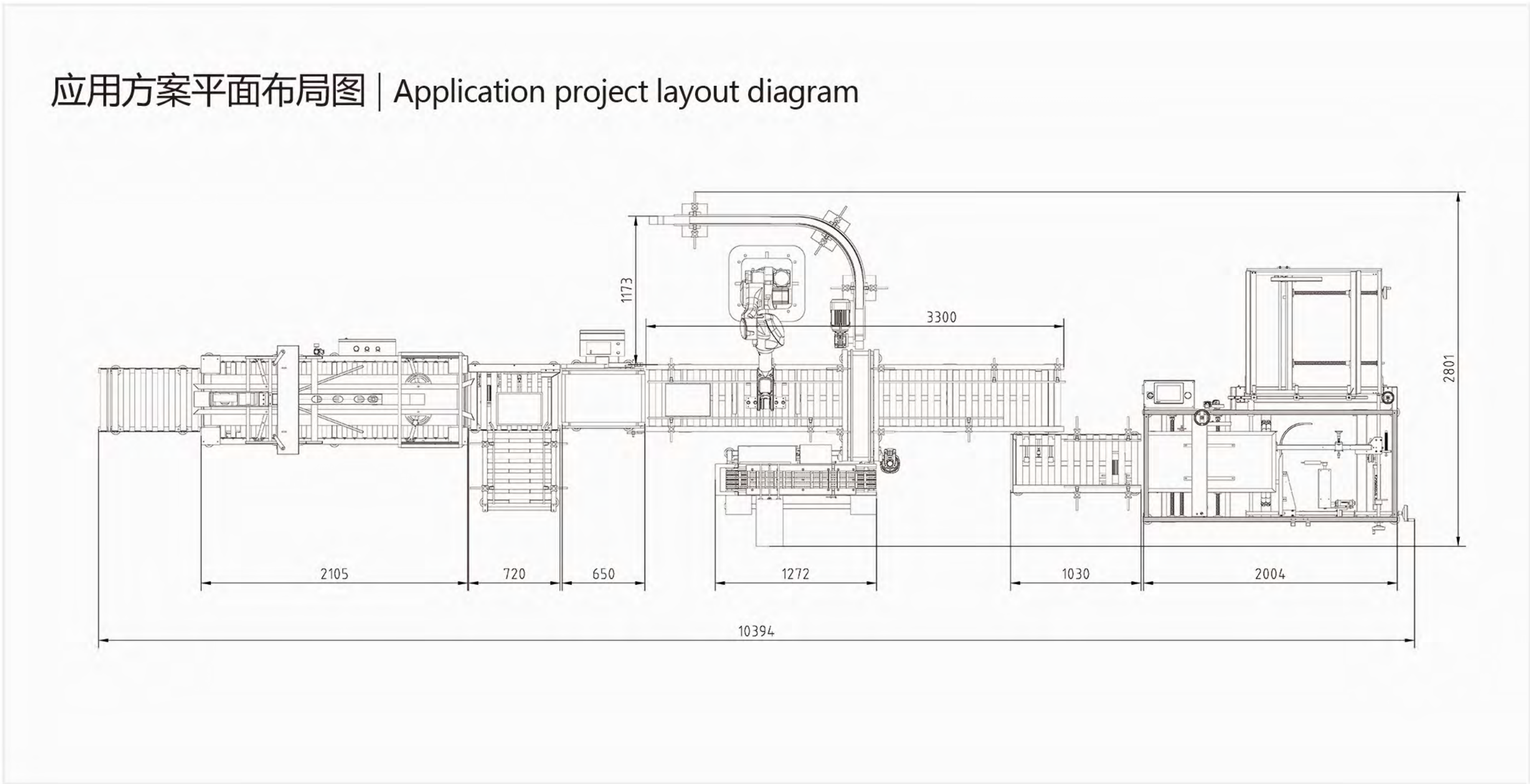


并联系列

串联系列 Series connection

特点：工作半径大，负载能力强，最大机型负载可达800kg。
Characteristic: big working radius, strong load capacity, biggest model loading could reach to 800 kg.





并联系列（Delta机器人） Parallel connection (Delta robot)

特点：动作敏捷，最高抓取速度180次/min，可配套视觉传感系统。
Characteristic: speedy and agile, the fast grabbing speed could reach to 180 times / minute, visual sensing system is for optional.

A

装箱
Carton loading

A series of three photographs showing a Delta robot arm picking up small, rectangular items from a tray and placing them into a cardboard box.

B

装盒
Box loading

A series of three photographs showing a Delta robot arm picking up items from a tray and placing them into a box.

C

挑选/分拣/排序/整理
selecting/sorting/ranking/arranging

A series of three photographs showing a Delta robot arm picking up items from a tray and placing them into a box.

D

视觉系统
Visual system

Two photographs showing a vision system. The top image shows a camera mounted on a robot arm, and the bottom image shows a close-up of a camera lens.

AGV自动叉车 *AGV automatic fork lifter*



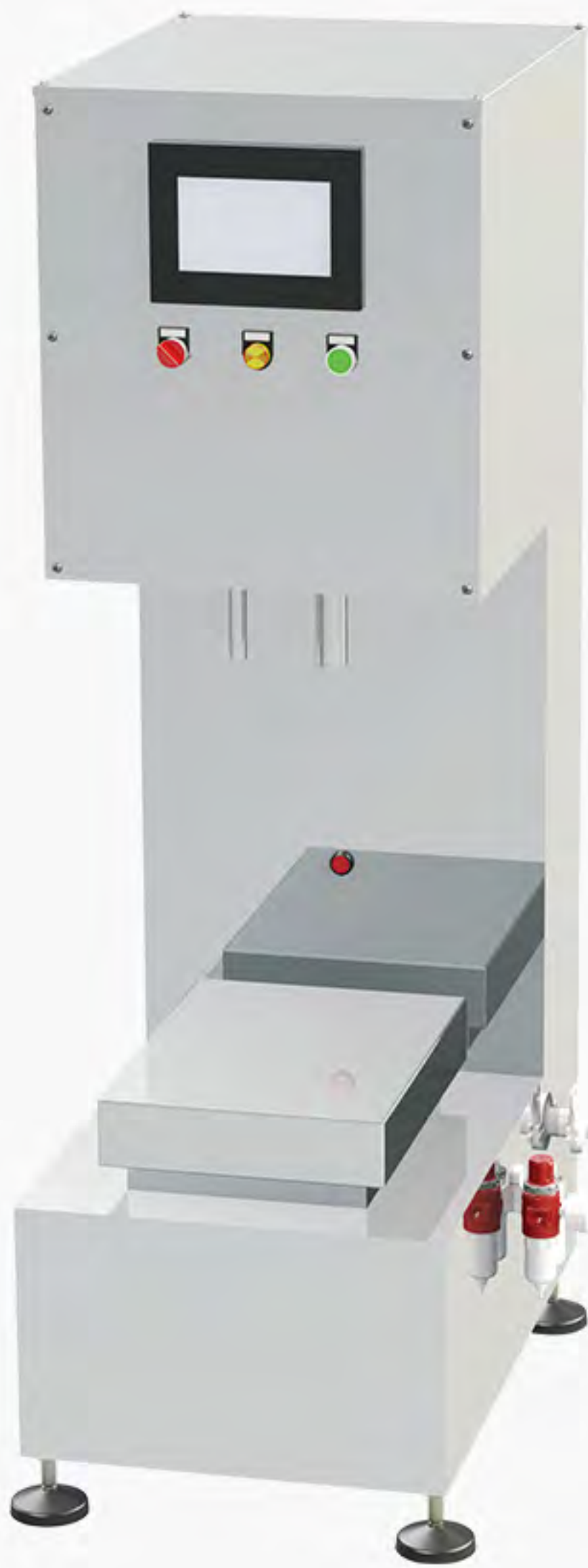
连科AGV自动叉车，采用激光雷达导航定位，重复定位精度±1CM，适合用于生产车间、仓储物流行业托盘类货物的自动搬运，最高叉取高度2.9米，可用于高位货架作业。

Lianke AGV automatic fork lifter adopts laser radar navigation and positioning, with repeated positioning accuracy of ±1CM. It is suitable for automatic handling of pallet goods in production workshops and warehousing and logistics industry. The highest forking height is 2.9 meters, and it can be used for goods operation of high-position shelves.

连科AGV自动叉车技术参数表		
1	叉取重量	1.6T
2	举升高度	2.9m
3	行走速度	1m/s
4	定位精度	±1cm
5	导航方式	激光雷达
6	安全防护	避障雷达+防撞触边



液体料自动定量称重机 *Liquid material quantitative weighing machine*



台式液体料定量称重机
Table type liquid material quantitative weighing machine

适合30kg以下物料称量
Suitable to weigh the material below 30kg

本设备适用于肉制品行业液体料的自动称量，设备分为台式和落地式两种，接料容器可为料桶或斗车，称量过程无需看管，大幅提高配料效率。

The equipment suitable for liquid material automatic quantitative weighing in the meat industry, this equipment divided into two types: table type and floor type, the material container could be material barrel or a movable bucket, the weighing process no need caretaker, greatly improve the material batching efficiency.

设备特点 Equipment characteristic

- 1** 自动称量，准确、高效；
Automatic weigh, accuracy, high efficiency;
- 2** 卫生级设计，清洗方便快捷，整机304材质。
Hygiene design, cleaning convenient and efficient, main unit was made by 304 stainless steel.



落地式液体料定量称重机
Floor type: liquid material quantitative weighing machine

适合30-150kg之间物料称量
Suitable to weigh the material between 30-150 kg



铝线、铝扣

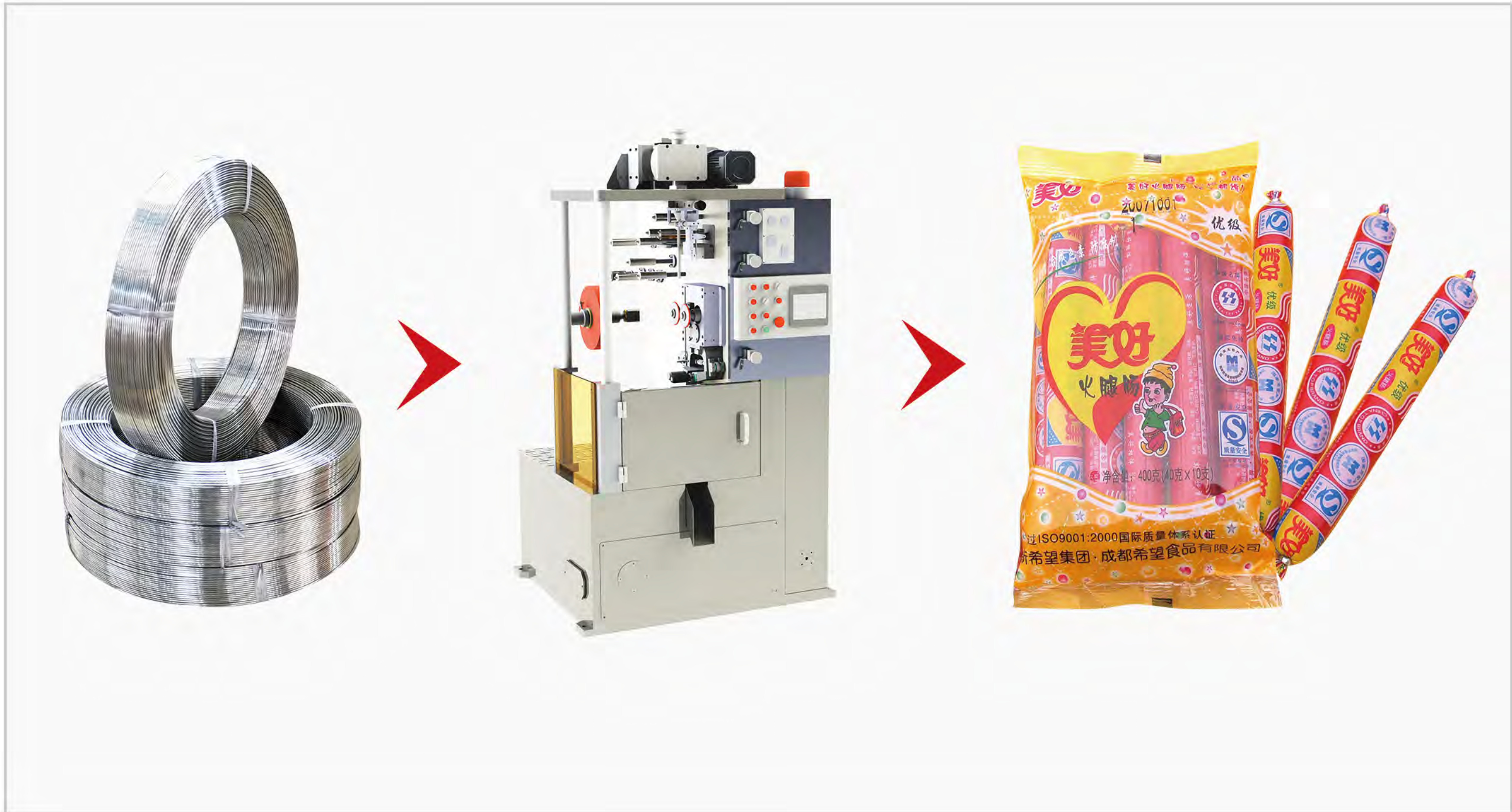
Aluminum wire Aluminum clip

采用多机变速一次成型工艺，产品色泽鲜亮，成型均匀，拉力均衡，纯度高。

Use advanced multi variable speed forming processes, product color bright, forming uniform, tension equilibrium, and high purity.

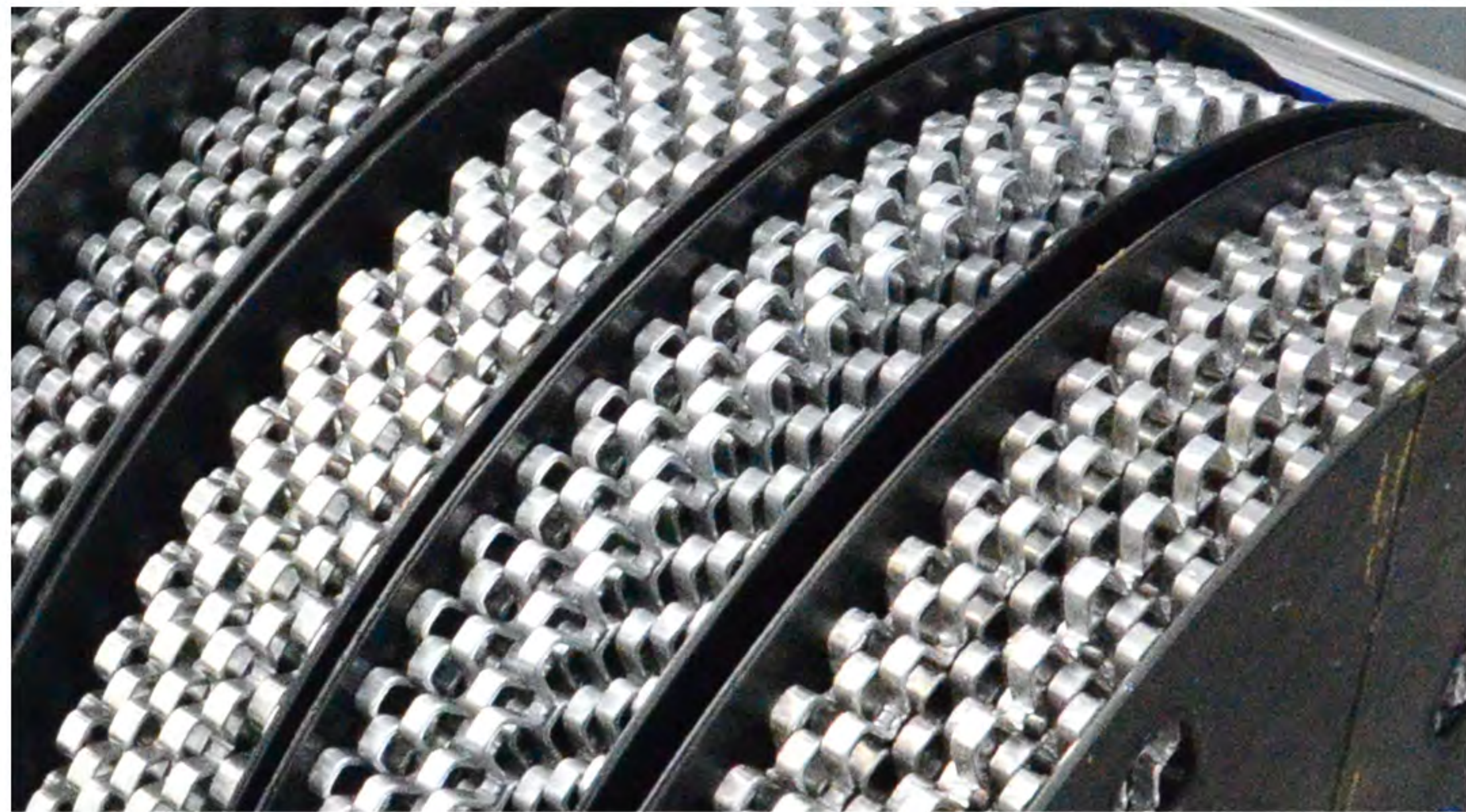
技术参数 technical parameter

产品 Product	规格 Specification	每盘重量(kg) Weight / roll (Kg)	每盘长度 (m) Length / roll (m)
铝线 Aluminum wire	φ2.05mm	5.5	595
	φ2.1mm	5.5	570
	φ2.2mm	5.5	517
	φ2.3mm	5.5	473
	φ2.7mm	5.5	343
铝扣 Aluminum clip	15--7	/	/
	18--9	/	/



包装耗材 Packaging material

铝线、铝扣 Aluminum wire Aluminum clip



PVDC肠衣膜 PVDC Sausage casing film

PVDC肠衣膜是一种综合阻隔性非常好的包装材料，主要用于生产火腿肠产品。
PVDC casing film is a kind of excellent barrier property packaging materials, mainly used for the production of retort sausages.

产品分类 Product category

1 不印刷肠衣 No printed film



2 表印肠衣 Printed film



3 复合里印肠衣 Laminated film



产品颜色 Product Color

根据客户需求，常见有红、橙、黄、金等。Customized, common color red, orange, yellow, golden and etc.

技术参数 Technical Parameter

性能指标 (Items)	单位 (Unit)	限值 (Limited value)
厚度 Thickness	μm	40~50
宽度 Width	mm	20mm---1200mm (Customized)
拉伸强度 (纵/横) Tensile strength(MD/TD)	MPa	≥60/80
断裂伸长率 (纵/横) Elongation at break (MD/TD)	%	≥50/40
热收缩率 Shrinkage rate	%	15~30/15~30
水蒸气透过量 WVTR	g/(m²·24h), 38°C, 90%RH	≤5
氧气透过量 OTR	cm³/(m²·24h·0.1MPa), 23°C, 50%RH	≤25

PVDC复合拉伸膜

PVDC Laminated stretch film

PVDC复合拉伸膜是利用PVDC的高阻隔性，与其它材料复合，获得的具有理想综合性能 的包装膜。
PVDC laminated strechable film is a kind of laminated film with excellent comprehensive performance .

产品分类

Product category

- 1 耐水煮型：100℃以下、巴氏杀菌
Water boiling resistance type: under 100℃、Pasteurization.
- 2 耐蒸煮型：121℃杀菌
Steaming resistance type: 121℃ sterilization.

技术参数

technical parameter

性能指标 (Items)	单位 (Unit)	限值 (Limited value)
厚度 Thickness	μm	根据产品需要 Customized
拉断力 (纵/横) Tensile strength(MD/TD)	N	≥30/30
断裂伸长率 (纵/横) Breaking elongation(MD/TD)	%	≥60/60
摩擦系数 (膜内/膜内) Friction coefficient	/	≤0.4
热合强度 Sealing strength	N/15mm	≥13
水蒸气透过量 WVTR	g/(m ² ·24h) ,38℃, 90%RH	≤5
氧气透过量 OTR	cm ³ /(m ² ·24h·0.1MPa) ,23℃,50%RH	≤40



自动包装机用片膜 Automatic packing machine use film

自动包装机用片膜，具有良好的快速热封性能，封口质量高，十分适合高速自动连续包装。
Automatic packing machine use film which has a good heat sealing performance, high quality sealing, very suitable for high speed automatic continuous packaging.

产品分类 Product category

普通型 Common type	高阻隔 High barrier type	镀铝型 Aluminizing type without transparency window	洗铝型 Aluminizing type with transparency window
			
			

技术参数 technical parameter

性能指标 (Items)	单位 (Unit)	限值 (Limited value)
厚度 Thickness	μm	55~75
宽度 Width	mm	根据客户要求定制 (Customized)
热合强度 (纵/横) Heat sealing intensity (MD/TD)	N/15mm	≥7
拉断力 (纵/横) Breaking force (MD/TD)	N	≥30
断裂伸长率 (纵/横) Breaking elongation(MD/TD)	%	≥30
剥离强度 (纵/横) Peel strength (MD/TD)	N/15mm	≥0.6
抗摆锤冲击能 The pendulum impact energy	J	≥0.6

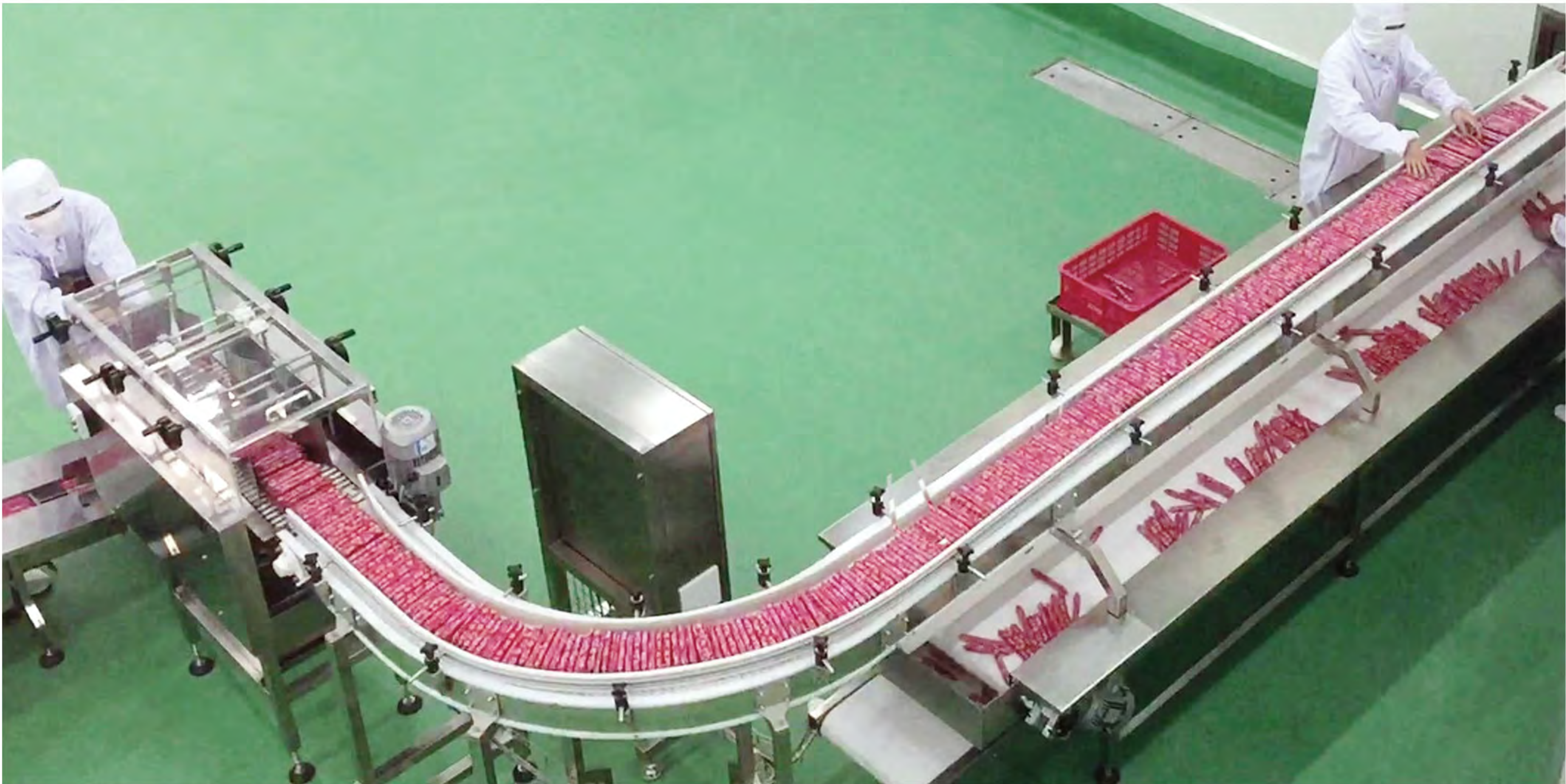
生产线应用案例 *Production line application case*



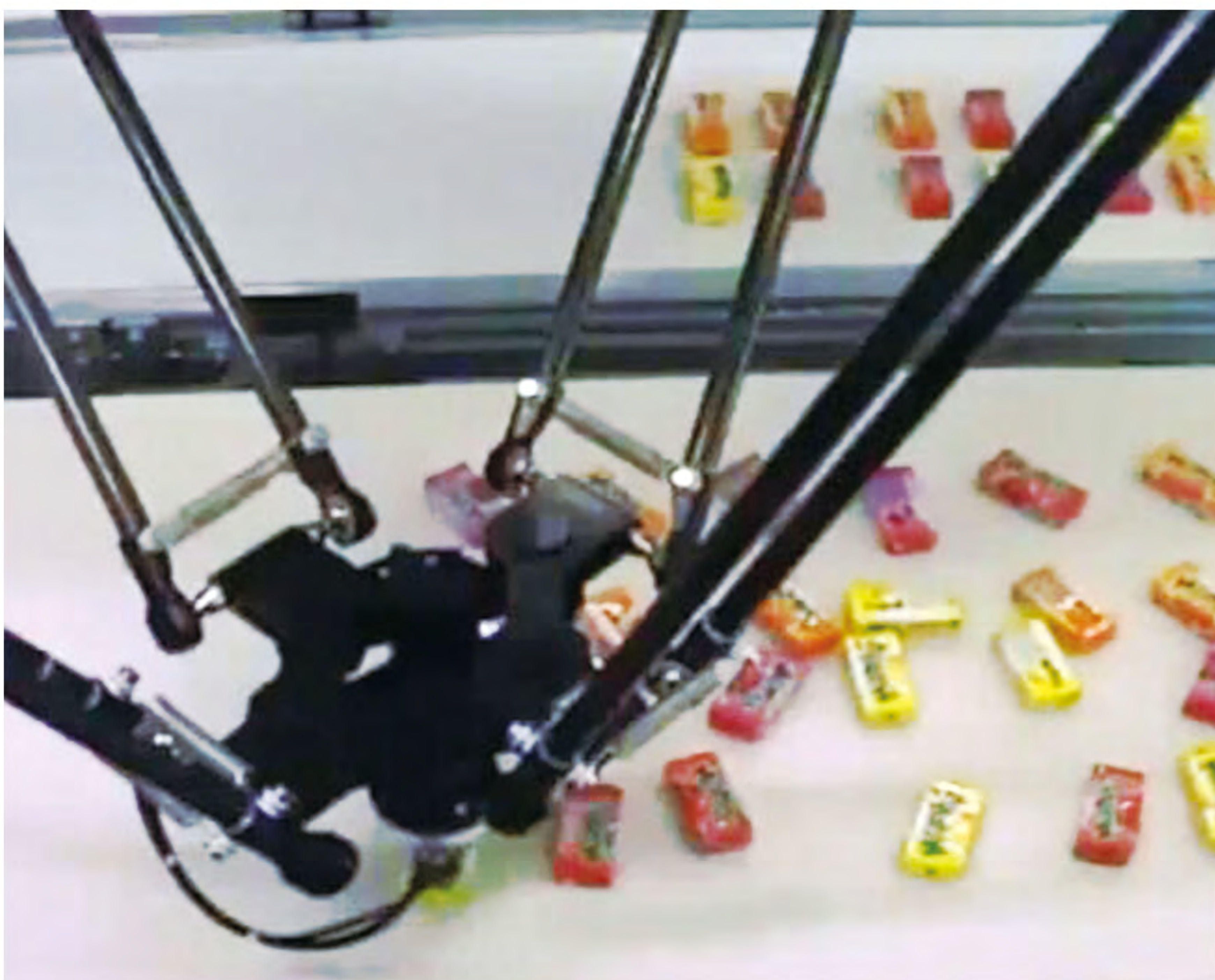
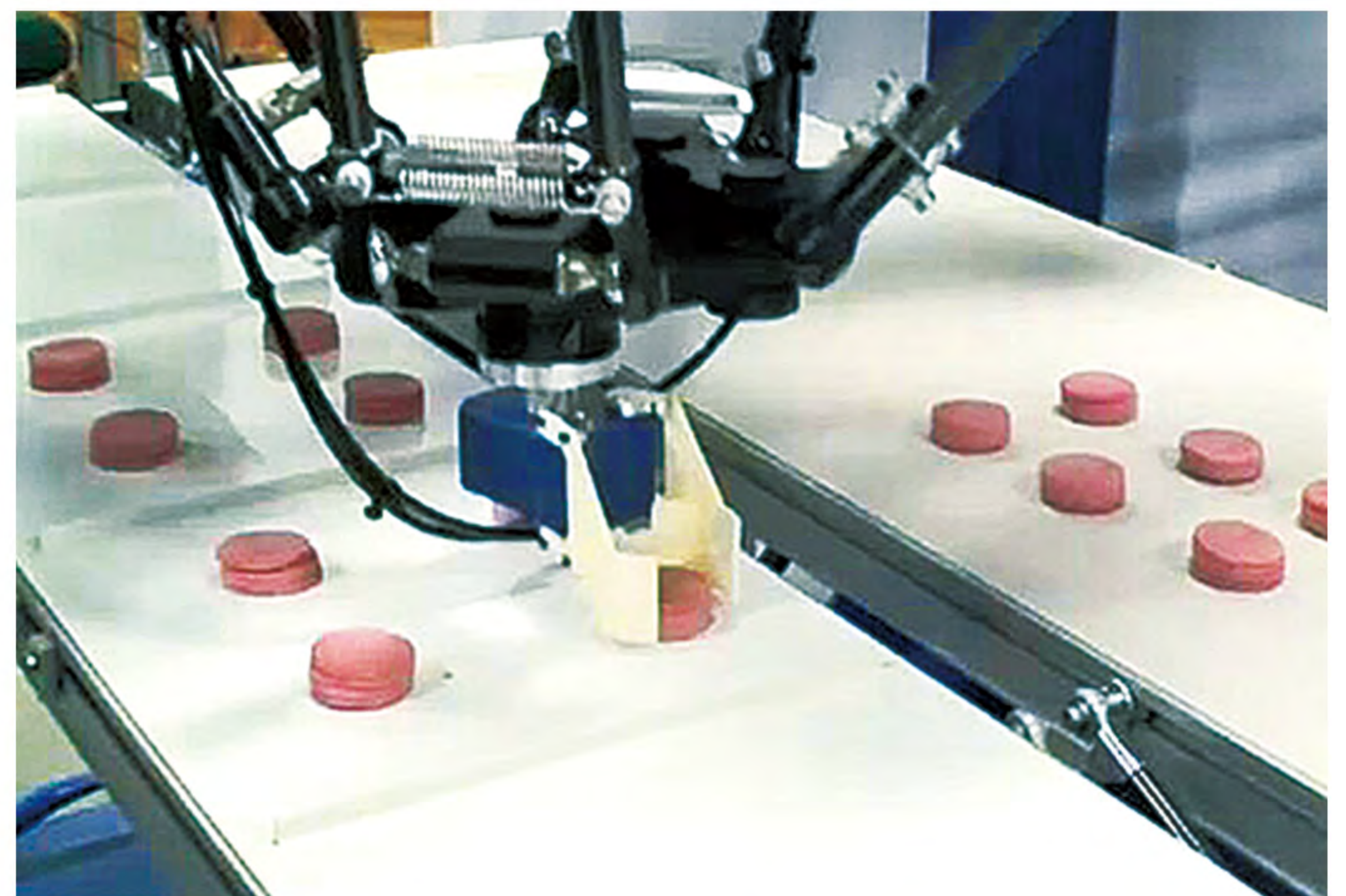
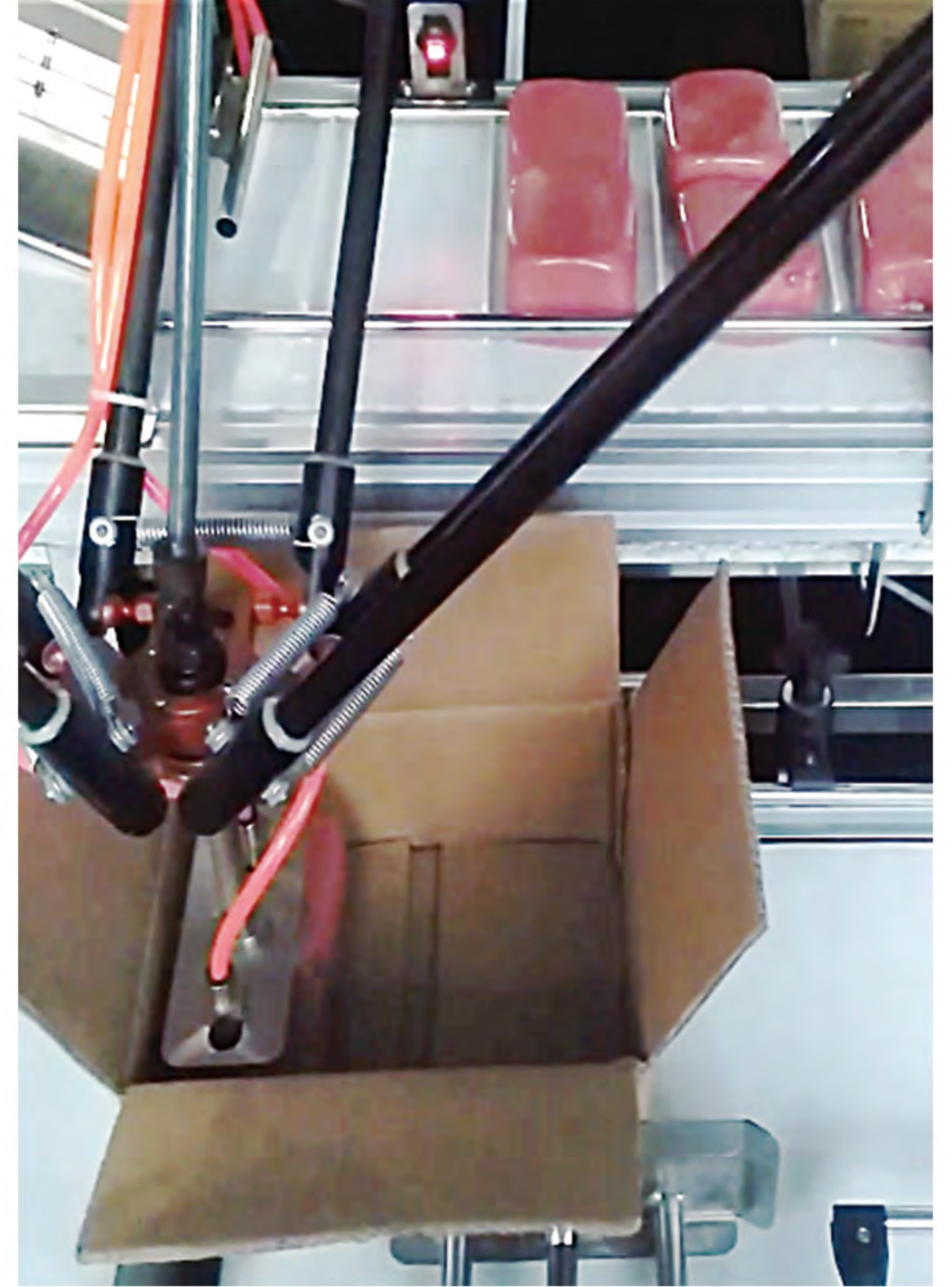
生产线应用案例 *Production line application case*



生产线应用案例 *Production line application case*



生产线应用案例 *Production line application case*



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- ☎ 0539-7202222 | 4008-110-386
- ☎ 0539-7202018
- ✉ keji@madeinlk.com
- 📍 山东省临沂市兰山区半程镇金锣工业园（金锣二路与汶泗路交汇处西南）

International Trade Department

- ☎ 0086-18953952881 | +86-13370657825
- ✉ zyq@madeinlk.com
duyanping@madeinlk.com
- 📍 Jinluo Science Park, Linyi City,
Shandong Province, China