



企业官网



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博阳机械

BOYANG MACHINERY

中国包装输送仓储物流设备制造专家

China packaging and transportation warehousing logistics equipment manufacturing experts.



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BOYANG
JIXIE



使命：创造价值，回报社会
愿景：担当行业科技引领者
价值观：诚信自强，创新共享

ABOUT US 关于我们

中国包装输送仓储物流
设备制造专家

China packaging and transportation
warehousing logistics equipment
manufacturing experts.



安丘博阳机械制造有限公司是一家专注于自动化包装、码垛、拆包拆垛及智能仓储物流装备定制的研发型“生产+服务”企业，也是一家集进出口国际贸易、电子商务、网络营销于一体的科技型创新企业，主要产品包括袋装物料自动化包装生产线、智能化拆垛拆袋加料生产线、移动装卸车机器人、输送出入库AGV、智能立体仓库等，可用于仓库、车站、货场、码头等包装、装卸、运储行业的仓储搬运物流装备的智能生产线，涵盖粮食、饲料、食品、医药、化工、橡胶、塑料、煤炭、金属矿、非金属矿、建材、危废等二十多个行业，是“国家知识产权优势企业”、“齐鲁股权交易中心挂牌上市企业”、“高新技术企业”、“山东省瞪羚企业”、“山东省隐形冠军培育企业”、“山东省‘一企一技术’创新企业”、“山东省‘专精特新’企业”、“潍坊市隐形冠军企业”等。

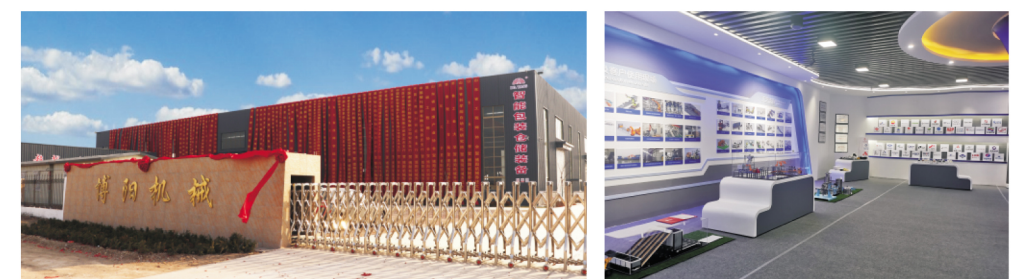
公司现为“山东省省级工业设计中心”、“潍坊市企业技术中心”、“潍坊市工业设计中心”、“潍坊市包装机械工程技术研究中心”、“潍坊市仓储物流装备重点实验室”、“潍坊市智能仓储物流机器人工程研究中心”、“山东大学博阳机械包装设备研发中心”、“山东省科学院博阳机械机器人研究中心”、“济大一博阳搬运机器人研究所”、“博阳机械&齐鲁理工人工智能研究院”、“中国水电港航博阳机械专用设备研发中心”。2018年10月，公司与中科院新松机器人达成了战略合作协议，在工业机器人领域开展研发、生产、销售等深度合作。公司近两年申请国家专利300余项，其中发明专利50余项，四项产品通过国家科技成果鉴定，被评定为达到“国内领先”水平。

公司依托大数据、物联网、云计算、资源信息共享平台及利用“5G技术+互联网+智能制造+定制化服务”的理念和思维方式，以科技创新为核心，以品牌战略、精细化营销战略、人才战略、信息化战略为支撑，实现高端装备制造行业供应链、产业链的万物互联，为争做智能装备制造行业带头人一路奋进。

Anqiu Boyang Machinery Manufacturing Co., Ltd. is a research and development-oriented "production + service" enterprise focusing on automated packaging, palletizing, bag unloading and unstacking, and intelligent warehousing and logistics equipment customization. It is also a collection of import and export international trade, e-commerce, and network marketing. An integrated scientific and technological innovation enterprise. Its main products include automatic packaging production lines for bagged materials, intelligent destacking and unloading and feeding production lines, mobile loading and unloading robots, conveying and inbound AGVs, intelligent three-dimensional warehouses, etc., which can be used in warehouses, stations, freight yards, and docks. Intelligent production lines for warehousing, handling and logistics equipment in the packaging, loading and unloading, transportation and storage industries, covering more than 20 food, feed, food, medicine, chemicals, rubber, plastics, coal, metal mines, non-metal mines, building materials, hazardous waste, etc. The industry is "National Intellectual Property Advantage Enterprise", "High-tech Enterprise" and so on.

Our company is "Shandong Provincial Industrial Design Center", "Weifang Intelligent Warehouse Logistics Robot Engineering Research Center", "Shandong University Boyang Mechanical Packaging Equipment R&D Center", "Shandong Academy of Sciences Boyang Robotics Research Center", "Jida-Boyang Handling Robot Research Institute", "Boyang Machinery & Qilu Artificial Intelligence Research Institute", "China Hydropower Port and Aviation Boyang Machinery Special Equipment R&D Center". In October 2018, the company reached a cooperation with SIASUN Robotics of the Chinese Academy of Sciences. The company has applied for more than 300 national patents in the past two years, including more than 50 invention patents. Four products have passed the national scientific and technological achievements appraisal and have been assessed as reaching the "domestic leading" level.

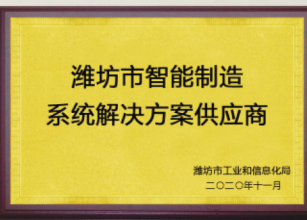
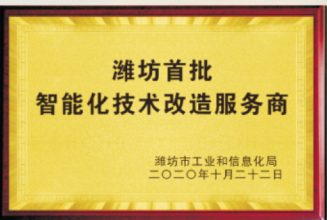
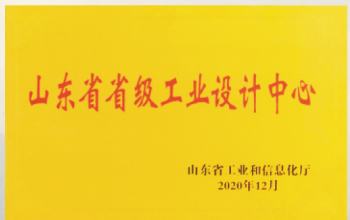
The company relies on big data, Internet of Things, cloud computing, resource information sharing platform and the concept and way of thinking of "5G technology + Internet + intelligent manufacturing + customized services", with technological innovation as the core, brand strategy and refined marketing Supported by strategy, talent strategy, and informatization strategy, we will realize the interconnection of all things in the supply chain and industrial chain of the high-end equipment manufacturing industry, and strive to be a leader in the intelligent equipment manufacturing industry.



ENTERPRISE HONOR

企业荣誉

永不停息的探索脚步，融汇国际尖端人才，
用科技铺垫未来
Unceasingly exploring the pace, integrating international
talents, laying the groundwork for future



科学技术是企业发展的动力
截止至2021年公司共申请国家专利300余项
其中发明专利50余项



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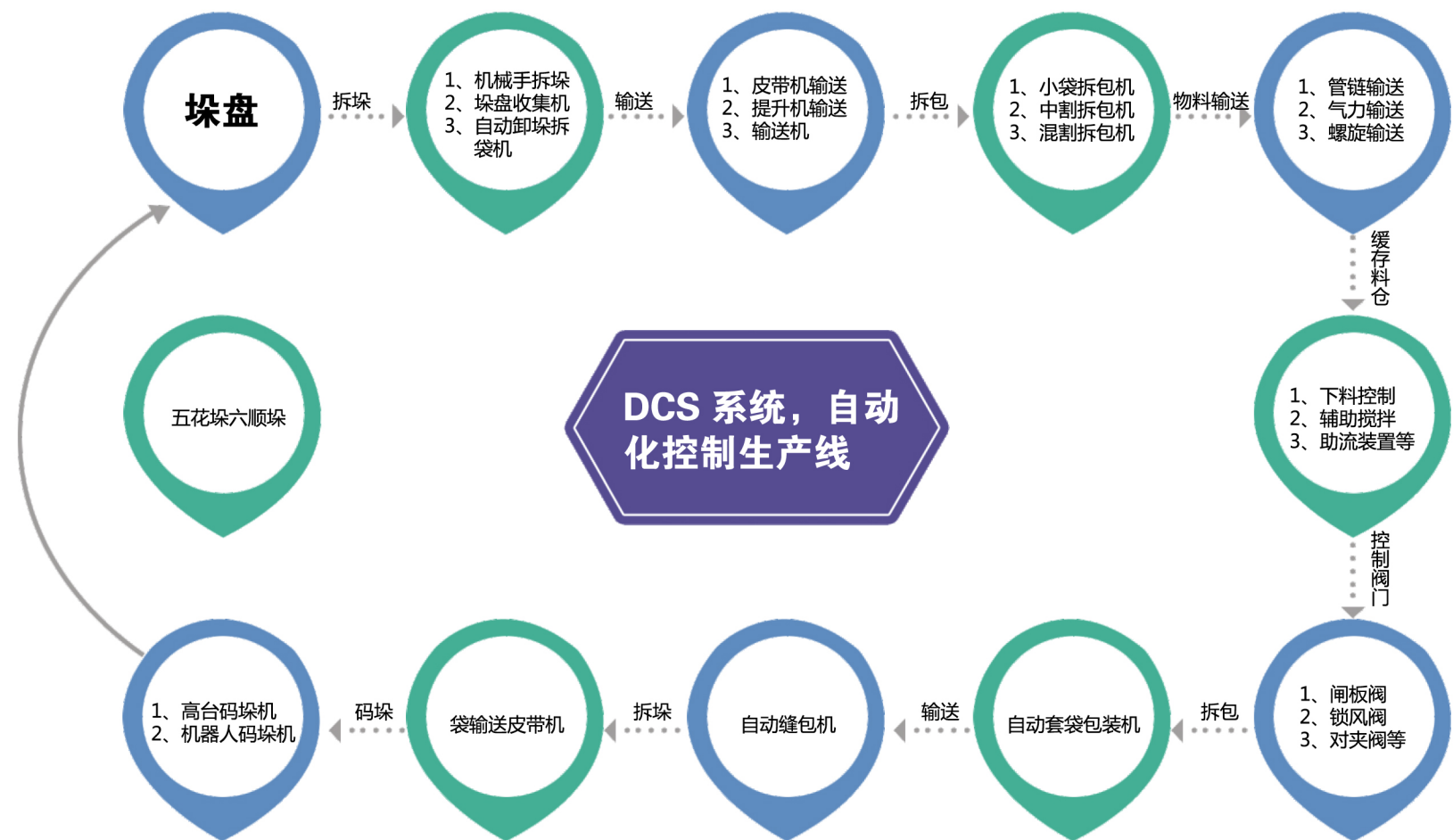
- 智能展示区 /22
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包装、码垛、拆垛、拆包、计量分配
PACKING, STACKING, UNSTACKING, UNPACKING,
MEASUREMENT DISTRIBUTION

自动化闭环示意图
AUTOMATIC CLOSED LOOP DIAGRAM

卸车、码垛、入库、拆包、分配
UNLOADING TRUCK, STACKING, WAREHOUSING,
UNPACKING, DISTRIBUTION

自动化闭环示意图
AUTOMATIC CLOSED LOOP DIAGRAM



半自动包装机 SEMI-AUTOMATIC PACKING MACHINE

适用于金属、化工、医药、建材等行业中物料的包装。

特点:

- 1、电脑称重计量下料、性能稳定、操作简单。
- 2、配有收尘换气口，提高下料速度、无尘工作。
- 3、能耗低，安全性高，使用寿命长，维护成本低。

◆ 适用范围

粮食类（玉米、高粱、大豆、稻谷、荞麦、大米、小米、小麦等）、肥料类（有机肥、复合肥、磷铵、硫铵、尿素、多孔硝胺、普钙、重钙、BB肥、磷肥、钾肥、氯化铵、氯化钾、各种混配肥等）、化工类（适用于PVC、PE、PP、ABS、聚乙烯、聚丙烯、亚氯酸钠等）、饲料类（适用于油糠、麸皮、菜粕、棉粕、豆粕、米糠、玉米胚芽粕、玉米蛋白、饲料家禽及鱼饲料等）。

This machine can be used to pack material in the industry of metal, chemicals, pharmacy, building material, etc.

Features:

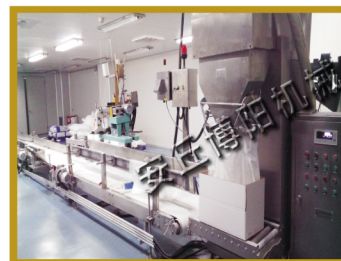
Stable performance, simple operation

With dust collection port, increase discharge speed, dust-free work.

Lower energy consumption, high safety, long service time

◆ Application scope

food (corn, sorghum, soybeans, rice, buckwheat, millet, wheat, etc.), type of fertilizer (organic fertilizer, compound fertilizer, ammonium phosphate, ammonium sulfate, urea, porous Nitramine, SSP, TSP, BB fertilizer, phosphate, potash, ammonium chloride, potassium chloride, a variety of mixed fertilizer, etc.), chemical (for PVC, PE, PP, ABS, polyethylene, polypropylene, sodium chlorite, etc.), Feedstuffs (applicable to bran oil, bran, rapeseed meal, cottonseed meal, soybean meal, rice bran, corn germ meal, corn gluten feed poultry and fish feed, etc.)



螺旋定量包装机



螺杆式包装机



直流式包装机



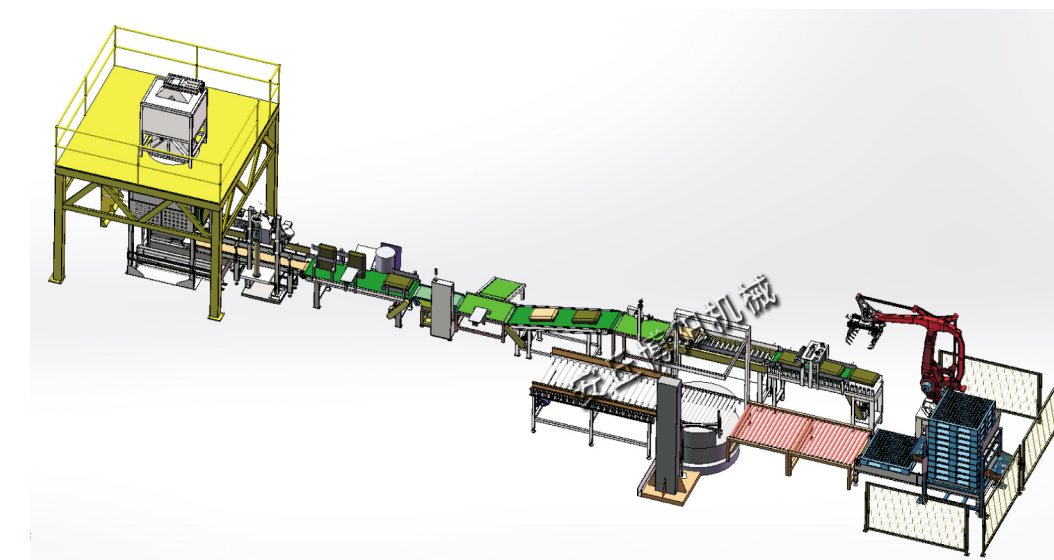
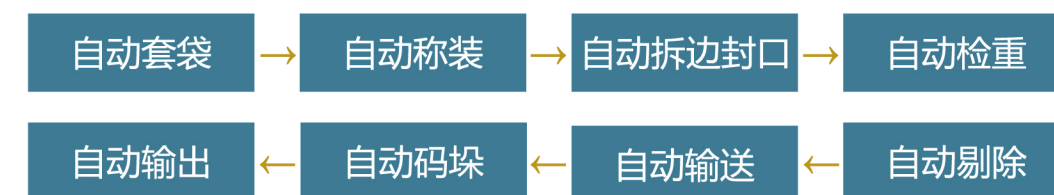
气喷式包装机

全自动包装机 AUTOMATIC PACKING MACHINE

◆ 产品描述 Description

适合包装各种粉状物料，采用国际先进粉体包装技术，具有包装精度高、工作速度快、环境污染少、先进可靠、性能优良、易于操作等优点。

Suitable for packing all kinds of powder materials, using the international advanced powder packing technology, with high packing accuracy, fast working speed, less environmental pollution, advanced and reliable, excellent performance, easy to operate and other advantages.



食品装箱码垛生产线



装箱封箱码垛生产线



吨袋包装机 TON BAG PACKING MACHINE



◆ 产品描述 Description

随着工业化的不断发展及文明的不断进步，我公司根据市场的需求，研发了适应于各种块状、颗粒状、粉状、超细粉的大袋包装设备。尤其对于很多湿料、膏状物料、含气量大的物料进行了研发。按照物料粒度吨袋包装机分为：BTK块料吨袋包装机、BTL粒料吨袋包装机、BTF粉料吨袋包装机。针对有粘度、流动性差、含水份高、精矿、尾渣等不宜包装的物料可用BTG膏料吨袋包装机，针对含气量大、比重轻、易扬尘的各种物料可用BTV真空吨袋包装机。同时我公司还研发了一种可以移动的吨袋包装机—BTM吨袋包装机。

With the continuous development of industrialization and civilization, our company according to the market demand, developed for all kinds of bulk, granular, powder, ultra-fine powder bag packaging equipment. Especially for a lot of wet materials, paste-like materials, materials with large air content were developed. According to the material granularity, the packing machine is divided into: BTK block material ton bag packing machine, BTL granule material ton bag packing machine, BTF powder ton bag packing machine. For the viscosity, mobility, high moisture content, concentrate, tailings and other materials not suitable for packaging can be used BTG paste ton bag packaging machine, for the gas content, light specific gravity, easy dust can be used BTV vacuum ton bag packaging machine. At the same time, our company has also developed a removable-ton bag-packing machine called btm-ton bag-packing machine.



拆码垛机器人 UNPALLETIZING AND STACKING ROBOTS



◆ 产品描述 Description

拆码垛机器人能实现代替人工及自动化程度较低的设备，不仅可以节省人力成本，还可以更快速地将产品按照预定的形式进行高效地操作。目前，我们的拆码垛机器人能满足袋装物料、瓶装物料、箱装物料、桶装物料、盒装物料等不同包装形式的多种物料的拆码垛。

Unpalletizing manipulator and palletizing manipulator can replace manual and less automated equipment, which can not only save labor costs, but also more quickly and efficiently operate the products according to the predetermined form. At present, our Unpalletizing manipulator and palletizing manipulator can meet the requirements of the palletizing of bags, bottles, boxes, barrels, boxes and other materials in different packaging forms.



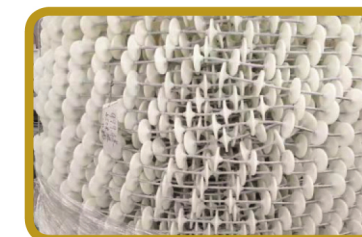


管链输送机 TUBE CHAIN CONVEYOR



管链输送机是输送粉状、小颗粒状及小块状等散状物料连续输送设备，可以水平、倾斜和垂直组合输送。在密闭管道内，以链片为传动构件带动物料沿管道运动。当水平输送时，物料颗粒受到链片在运动方向的推力。当料层间的内摩擦力大于物料与管壁的外摩擦力时，物料就随链片向前运动，形成稳定的料流；当垂直输送时，管内物料颗粒受链片向上推力，因为下部给料阻止上部物料下滑，产生了横向侧压力，所以增强了物料的内摩擦力，当物料间的内摩擦力大于物料与管内壁外摩擦力及物料自重时，物料就随链片向上输送，形成连续料流。本产品已申请国家专利，专利名称：一种管链输送机，专利号：ZL201420496493.8，ZL201420496494.2。

Pipe-chain conveyor is used for conveying bulk material of powder and granular and small lump materials. In a closed tube the chain as drive component to convey the material flow in the tube. When use horizontal conveying the material can bear the thrust from moving direction. When the friction of the material layer is bigger than the friction between material and the outer wall, the material move forward along the chains and form a stable stream; when use vertical conveying, material particles was subjected upward thrust from the chains. Because the lower feeding material s prevent the material flow down so that generate lateral pressure, which enhance the internal friction of the material. When the internal friction of the material is greater than the friction between outer material and inner wall of tube the material will be conveyed with the chains and form continuous material stream. This product has applied for national patents, patent name: pipe chain conveyor, patent number: ZL201420496493.8, ZL201420496494.2.



链条及料盘



环链链条



链轮



盘片

◆管链输送机技术参数 Technical data

型号 Model	输送能力 (m ³ /h) capacity	链轮转速 (转 / 分) Chain wheel speed	链板线速度 (米 / 秒) Chain plate speed	电机功率 (kw) Motor power
GL80	4	20	0.29	4
GL100	8	18	0.31	5.5
GL150	16	15	0.31	7.5
GL200	28	12	0.3	11
GL250	48	10	0.3	15
GL300	60	8	0.28	18.5
GL400	80	8	0.28	22



APPLICATION SCOPE
应用领域

精细化工：颜料，染料，涂料，炭黑，钛白粉，氧化铁，陶瓷粉，重钙，轻钙，膨润土，分子筛，高岭土，硅胶粉，活性炭等

农药矿石：尿素，氯化铵，碳酸氢铵，苏打粉，固体农药，钨粉，农药助剂，铜精矿粉，煤粉，磷矿粉，氧化铝粉等建筑材料：水泥，陶土，黄沙，石英沙，粘土粉，硅石，石灰石粉，白云石粉，木屑粉，玻璃纤维，二氧化硅，滑石粉等

食品工业：面粉，淀粉，谷物，奶粉，食品添加剂等。

Fine Chemicals: pigments, dyes, paints, carbon black, titanium dioxide, iron oxide, ceramic powder, light calcium, bentonite, zeolite, kaolin, silica powder, activated carbon, etc.

Pesticide Mineral: urea, ammonium chloride, ammonium bicarbonate, baking soda, solid pesticides, tungsten powder, pesticide chemicals, copper powder, coal, phosphate rock powder, alumina powder

Building materials: cement, clay, sand, quartz sand, clay powder, silica, limestone, dolomite flour, wood flour, glass fiber, silica, talc, etc.

Food industry: flour, starch, grain, milk, and food additives.



拆包输送计量生产线

UNLOADING CONVEYOR METERING PRODUCTION LINE



仓底计量输送线

WAREHOUSE BOTTOM METERING CONVEYOR LINE



连续吨袋拆包机

CONTINUOUS TON BAG UNLOADING MACHINE



◆ 产品描述

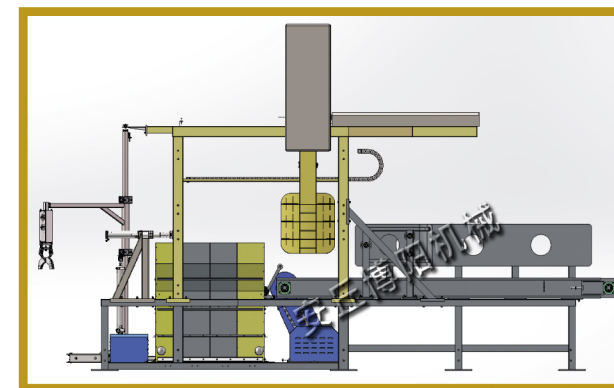
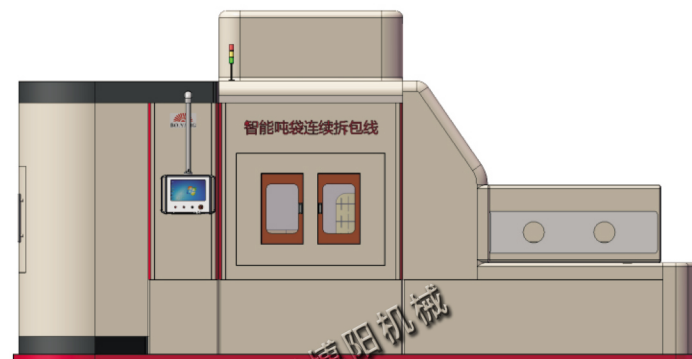
国内独创，拥有多项国家专利，工作过程全程无需人直接参与，实现人机分离工作，仅需叉车将吨袋物料送至设备输送带上即可，提高了设备安全性。

- 1、一键启停：无钥匙启动。整机电气、液压、气动元件通过触摸屏（键盘）单键操控即可实现正常开机运转和停机，也可应急急停。
- 2、自动投料：无需人工挂包和调整，仅需叉车将吨袋放至设备上料口，根据破袋、取袋过程需求，实现物料自动投放料和自动缓存。
- 3、自动夹包、拆包：根据动作流程，夹手会自动夹取吨袋转移至破袋振动模块，然后自动对吨袋进行破拆和振动。
- 4、自动取废袋：完破袋振动后，取废袋抓手会自动夹取废袋并对其拍打抖落袋内残余物料。
- 5、粉尘回收：破袋过程浮起的尘料可在除尘模块中自动下落抽屉式集尘室储存。（选配负压集尘系统实现吸尘）。

◆ Description

The equipment created exclusively in China, with a number of national patents, does not require workers to participate in the whole process of work, just need to forklift to send tons of bags of material to the equipment conveyor belt.

1. One button to start and stop. The electrical, hydraulic and pneumatic components of the whole machine can be controlled by a single button on the touch screen to realize normal startup operation and shutdown, and can also be stopped in an emergency.
2. Automatic feeding: No need to manually hang bags and adjust, only need to forklift to put jumbo bags to the feeding port of the equipment, according to the requirements of bag unloading and drop bag process, realize automatic feeding and automatic caching.
3. Automatic bag clamping and disassembling: according to the process of action, the gripper will automatically pick up the jumbo bag and transfer it to the unloading bag vibration module, and then automatically dismantle and vibrate the jumbo bag.
4. Automatic taking of waste bag: after the broken bag vibrates, the grabber will automatically pick up the waste bag and shake off the residual materials in the bag.
5. Dust recovery: the dust in the process of bag breaking is stored in the automatic drop drawer-type dust collecting room of the dust collector. (Optional negative pressure dust collection system to realize dust collection).

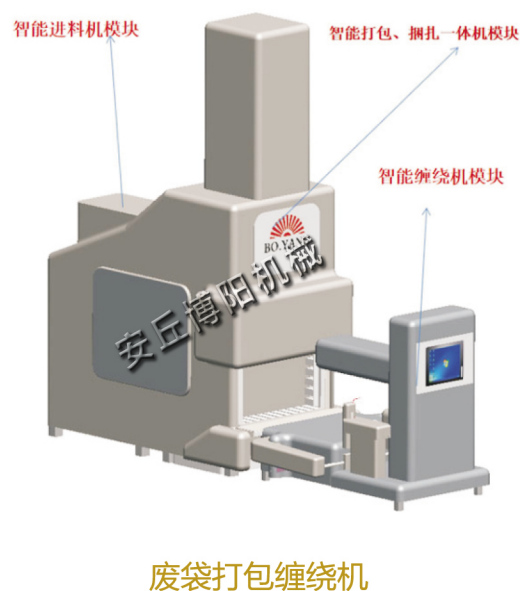
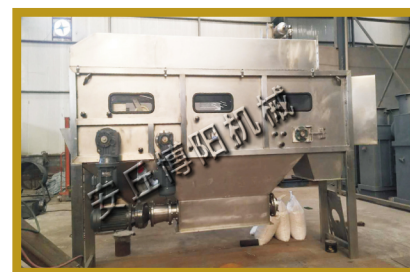


自动拆包机 AUTOMATIC BAG UNLOADING MACHINE

◆ 工作原理 Working principle

袋装粉粒体物料由皮带输送机传送至45度角的滑板上并依靠重力沿滑板下滑，在下滑过程中由快速转动的刀片将包装袋割开，被割开的残袋和物料滑入滚筒筛进行筛分。从滚筒筛落下的物料由螺旋输送机输出，破损的包装袋、杂质、结块物料被滚筒筛带出机体。割刀破袋过程中引起的粉尘由布袋式除尘器捕捉并抖落入螺旋输送机（由螺旋输送机输出的物料可通过管链输送机或者气力输送装置，输送至物料储罐中）。

Working principle: the bags of powder material conveyed by belt conveyor to a 45 degree angle sliding plate and slide along the plate by gravity and cut by the blade with rapid rotating. The broken bag and material fall down to rolling drum screen to be selected. Material from the drum conveyed by the screw conveyor and the broken bags and impurities and blocked material is taken out of the machine. Dust caused by bag-cutting is collected by bag-type dust collector and dropped off in to screw conveyor (material conveyed out by screw conveyor can be fed into material storage tank by chain conveyor and pneumatic conveying device.).



① 上料皮带线 B500×4m

序号	配置项目	参数	备注
1	皮带输送速度	>7m/min	
2	输送能力	>400 袋 // 小时	
3	输送长度	4m	
4	电机功率	2.2KW	
5	带宽	500mm	5层夹线橡胶

③ 筛分滚筒装置

序号	配置项目	参数	备注
1	筛分网	直径 800mm	
2	筛网孔直径	19mm	
3	筛网板厚	3mm	
4	材质	Q235 304 316	根据客户需求选择
5	滚筒转速	大于 15 转 /min	
6	电机功率	1.5KW	
7	支撑滚轮材质	碳钢	根据客户需求选择
说明	料袋分离采用滚筒筛，根据物料特性确定滚筒转速；破袋后包装袋残袋筛出，尽量保证成品物料无包装物杂质。		

⑤ 除尘装置

序号	配置项目	参数
1	风机功率	2.2KW
2	过滤面积	15 m ²
3	所需气源压力	≥ 0.6MPa
说明	配置集尘袋，方便更换。收集挥发气体，收集率 > 99.5%；留出排气口，由用户接入净化系统。	

② 破袋割刀装置

序号	配置项目	参数
1	刀片直径	400mm
2	刀片材质	T8A
3	刀片个数	9
4	电机功率	4+4=8KW
说明	割刀采用上下旋转刀片。	

④ 成品物料输送螺旋装置

序号	配置项目	参数
1	螺旋管直径	DN200
2	螺旋长度	3.6m
3	电机功率	2.2KW
4	所需气源压力	≥ 0.6MPa

⑥ 控制柜

采用市面知名品牌。（或根据需方要求配置）



吨袋拆包机 Ton bag unloading machine



◆产品描述 Description

吨袋拆包机主要适用于500KG-2500KG袋装粉体物料拆袋卸料作业，在化工、塑料、污水处理、基建等行业广泛使用。对袋装如塑料添加剂、袋装水泥和污水处理澄清剂等干燥的粉粒物料进行自动拆袋卸料作业。

吨袋拆包机不仅有效保护了生产环境、减轻了劳动者的工作强度、提高了生产效率，同时还解决了大袋，吨袋在开袋工作中的因吸潮导致粉料结块、物料架桥、不易出料的现象。

本产品已申请国家专利，专利名称：一种大袋拆袋机，专利号：ZL 201420496479.8, 201420813610.9。

拆包完后成可通过管链输送机、螺旋输送机、气力输送系统等专业输送设备输送到合适的位置。

Ton-bag breaker is mainly applied to the powder material of 500KG-2500KG bag's unloading. It is widely used in industries of chemicals, plastics, sewage treatment, infrastructure and other industries.

Ton-bag breaker charter not only effectively protect the production environment, reduce the intensity of workers, improve production efficiency, but also solve the problems of the material is easy block due to moisture absorption and the problem of material is difficult to be discharged.

This product has applied for national patents, patent name: big-bag breaker, patent No: ZL 201420496479.8, 201420813610.9.

After unpacking the bag, the material can be conveyed to proper position by the chains conveyor, screw conveyors, pneumatic conveying systems or other specialized conveying equipment.



◆产品描述 Description

开袋站结构简单，便于操作；
拍打设备可以保障物料顺利从大袋进入下道工序；
破碎机在开袋过程中对结块进行破碎，保障下道工序的顺利进行；
全自动化操作，提高生产效率，降低劳动强度；
密闭式开袋，杜绝粉尘飞扬，无热量产生，改善工作环境，降低生产成本；
开袋，拍打，破碎，磁选一体化设计结构紧凑，操作方便；
拆包完后成可通过管链输送机、螺旋输送机、气力输送系统等专业输送设备输送到合适的位置。

Simple open-bag structure and easy for operation
Tapping device can ensure the material smoothly feed into the next process from the sack
Crusher breaks the block during splitting the bag to ensure the next processing work smoothly.
Fully automated operation that increase productivity and reduce labor intensity;
Sealed split bag that prevent dust emissions, no heat generation, improve the working environment, reduce production costs;
Cutting the bag, beating, crushing, magnetic separation integrated design makes structure compact and operation convenient .
After unpacking the bag, the material can be conveyed to proper position by the chains conveyor, screw conveyors, pneumatic conveying systems or other specialized conveying equipment.

拆垛机 UNPALLETIZING MACHINE



◆ 工作流程 Work process

拆垛机能实现各种袋装粉料、颗粒料的垛盘拆垛作业，适用于塑料、化肥、饲料、化工、制药、食品等各种袋装粉料、颗粒料。降低劳动强度、提高生产效率、减少劳动成本、提升生产安全。

The unpalletizing machine can realize the palletizing and palletizing operation of all kinds of bagged powder and granular material, which is suitable for plastic, chemical fertilizer, feed, chemical, pharmaceutical, food and other kinds of bagged powder and granular material. Reduce labor intensity, improve production efficiency, reduce labor costs, improve production safety.



垛盘拆袋设备



差速拆垛机



旋转拆垛机

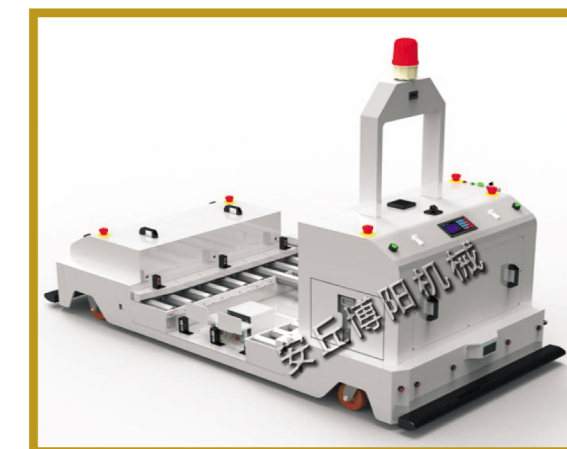
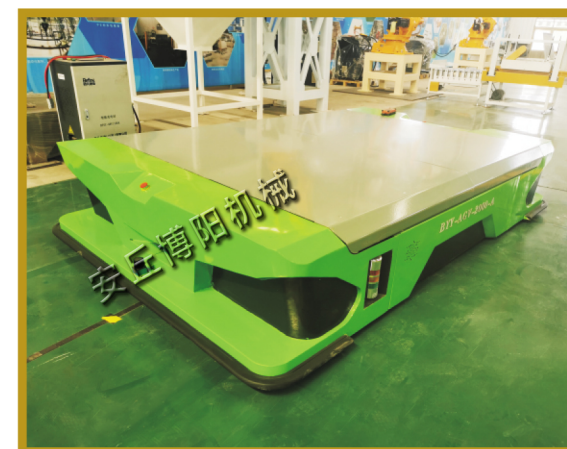
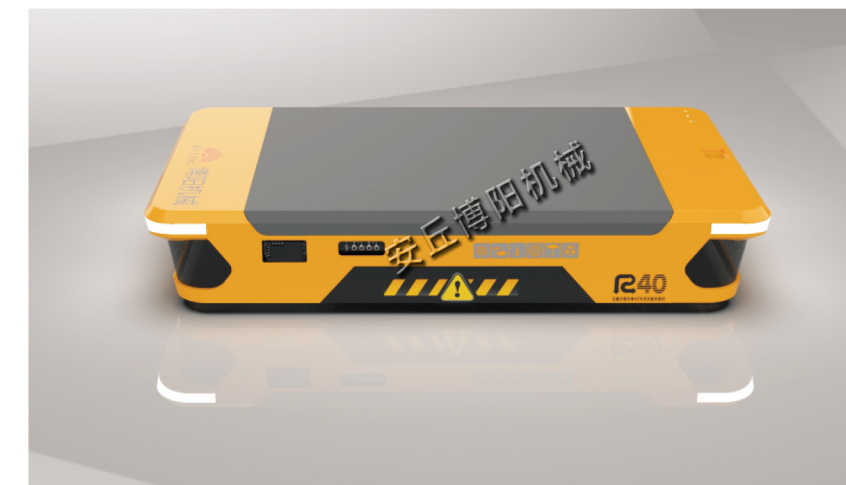
AGV



◆ 产品描述 Description

部署简单、使用方便，适合于复杂物流运输以及多AGV协同运行的场景，可以快速替代人工成本，提高劳动生产效率。目前，市面上比较常见的导航类型有激光导航、磁导航、二维码导航、雷达导航等。

It's simple layout, convenient use, suitable for complex logistics transportation and multi-AGV coordinated operation of the scene, it also can quickly replace the labor cost, improve labor production efficiency. At present, the more common navigation types on the market include laser navigation, magnetic navigation, Qr code navigation, radar navigation, etc. .

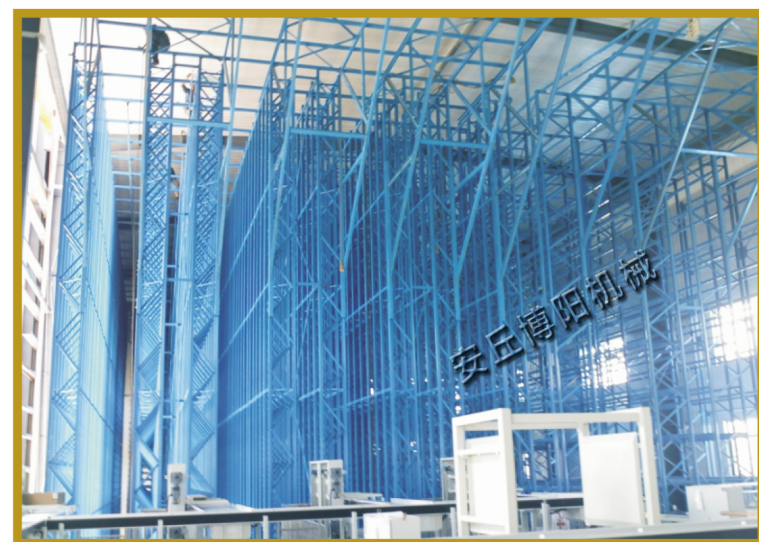


立体库 STEREOSCOPIC STOREHOUSE

◆ 产品描述 Description

自动化立体仓库整合了物流资源、优化了物流程序、缩短了物流作业周期、提高了物流效率并降低了物流成本，在建设立体仓库的同时，实现物流标准化和规范化。它保证物品的综合管理、控制和配送，因此AS/RS系统是集取送、储存和需求预测等多功能为一体的高度自动化、信息化系统。

Automated warehouse integrates logistics resources, optimizes logistics procedures, shortens logistics operation cycles, improves logistics efficiency and reduces logistics costs. While building warehouses, it realizes logistics standardization and standardization. It guarantees the comprehensive management, control and distribution of items, so the AS/RS system is a highly automated and information system that integrates multiple functions such as picking and delivery, storage and demand forecasting.



自动装车机 AUTOMATIC LOADING MACHINE

◆ 产品描述 Description

全自动装车机是一种新型的装车设备，可配备传统的皮带输送机和移动桁架式码垛机械手或固定式机械手码垛机等进行操作，是一种操作起来非常人性化的物流运输设备！

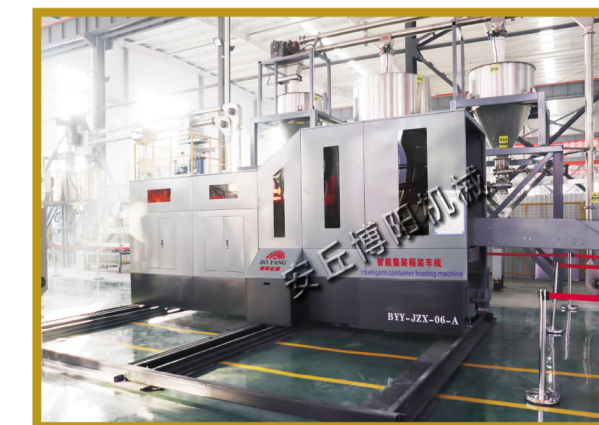
目前我公司研发了桁架式装车机、集装箱装车机、高速装车机、机械手装车机，可实现平板车、高栏车、集装箱、火车、货车等不同车型的自动装卸车，降低人工成本，提高工作效率。适用与化工、水泥、化肥、饲料、煤炭、面粉等行业的袋装及盒装装卸车。

The fully automatic loading machine is a new type of loading equipment, which can be equipped with a traditional belt conveyor and a mobile truss palletizing manipulator or a fixed manipulator palletizing machine for operation.

At present, our company has developed truss loading machines, container loading machines, high-speed loading machines, and manipulator loading machines, which can meet automatic loading and unloading of different models of flatbed trucks, high-barrier trucks, containers, trains, trucks, etc., to reduce labor costs, and improve work efficiency. It is suitable for bagged and boxed loading and unloading trucks in the chemical, cement, fertilizer, feed, coal, flour and other industries.



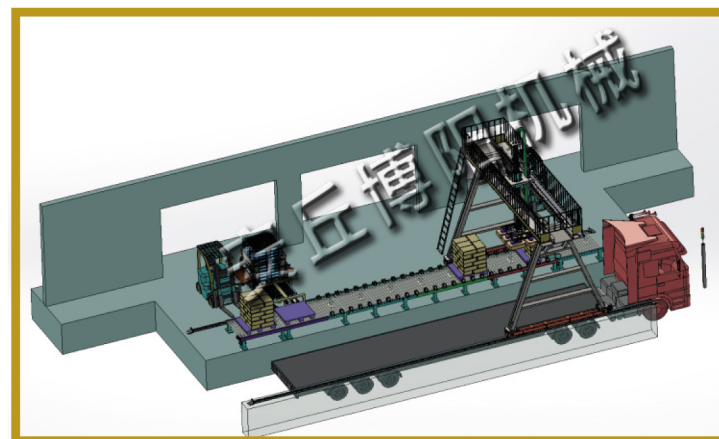
桁架装车机



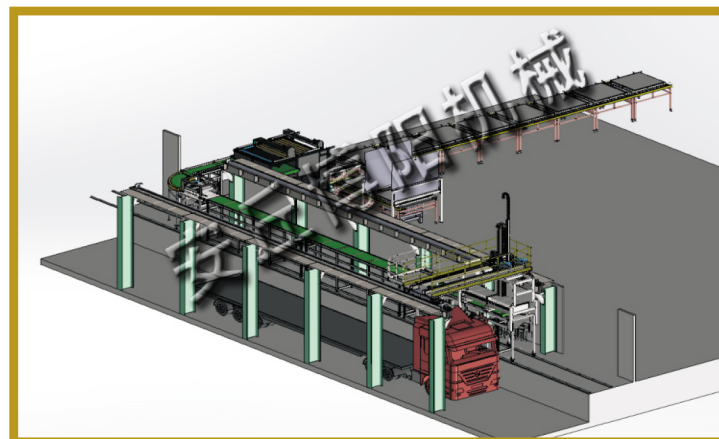
集装箱装车机



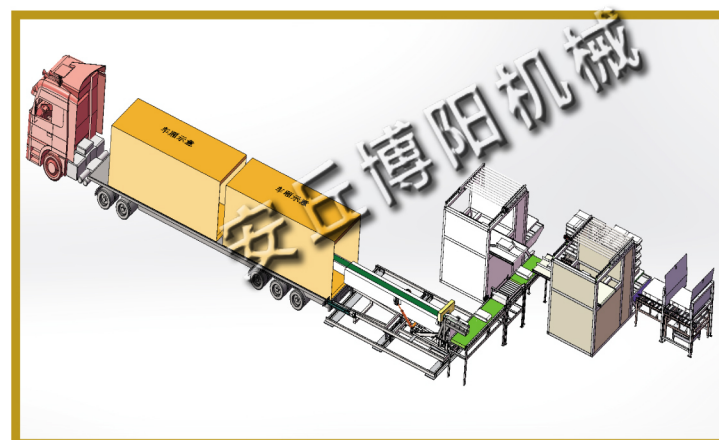
双机械手装车机



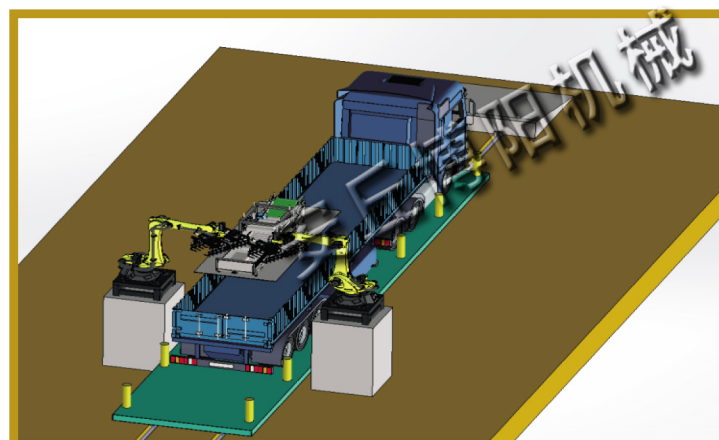
桁架装车机



桁架装车机

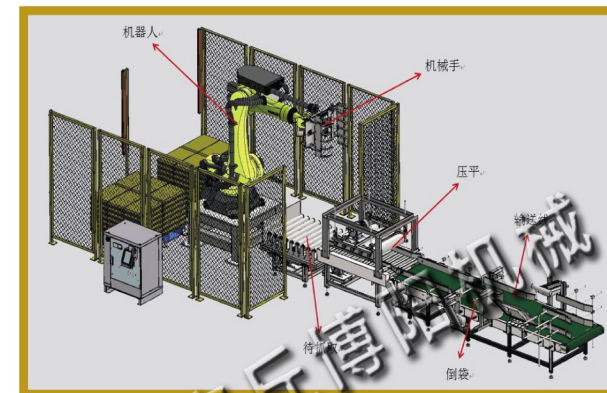


集装箱装车机

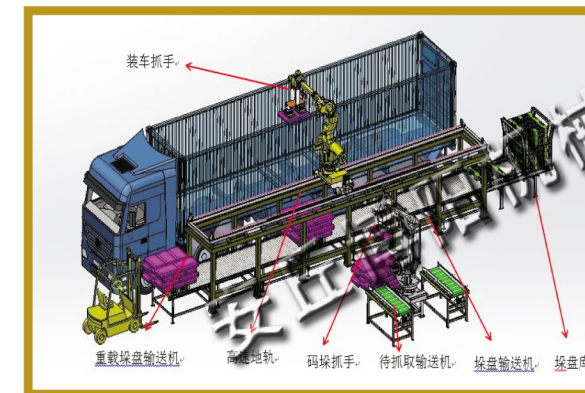


双机械手装车机

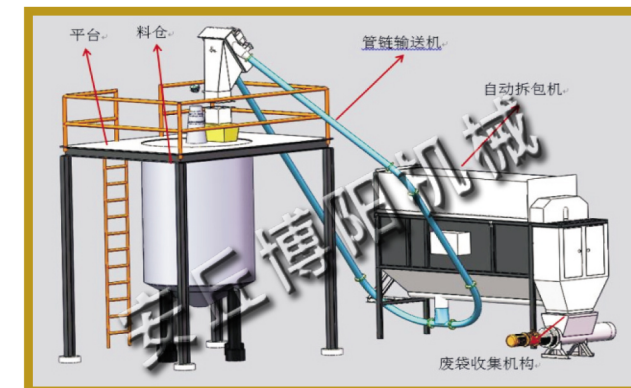
INTELLIGENT DISPLAY AREA
智能展示区



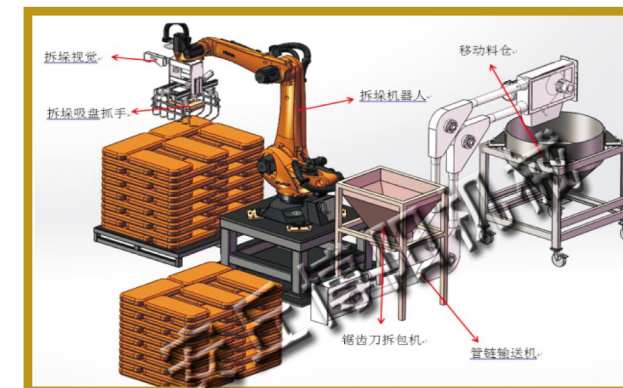
自动码垛生产线



自动拆垛装车生产线



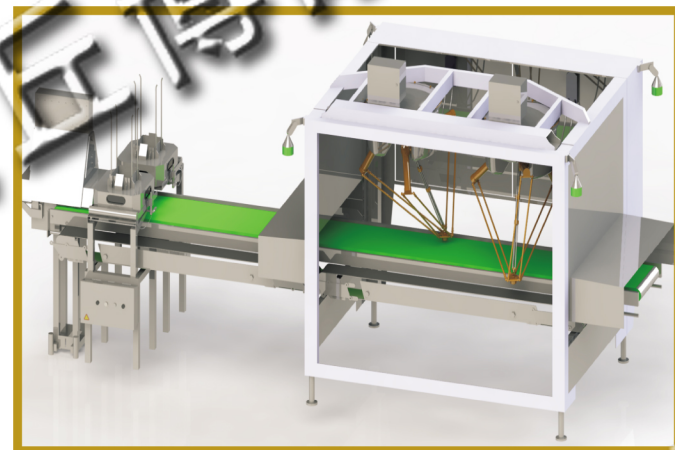
自动投料系统



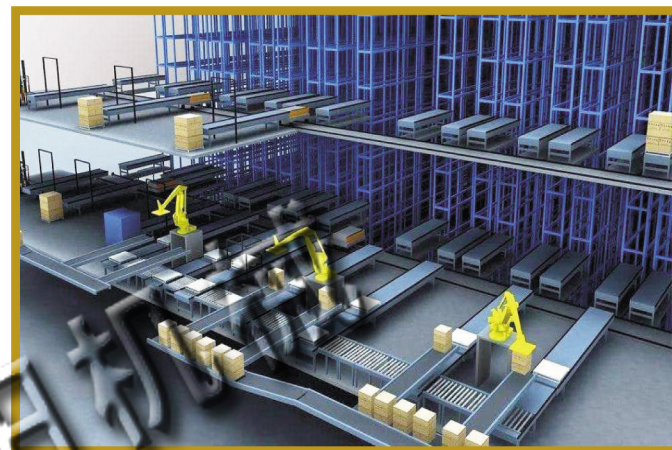
自动投料生产线



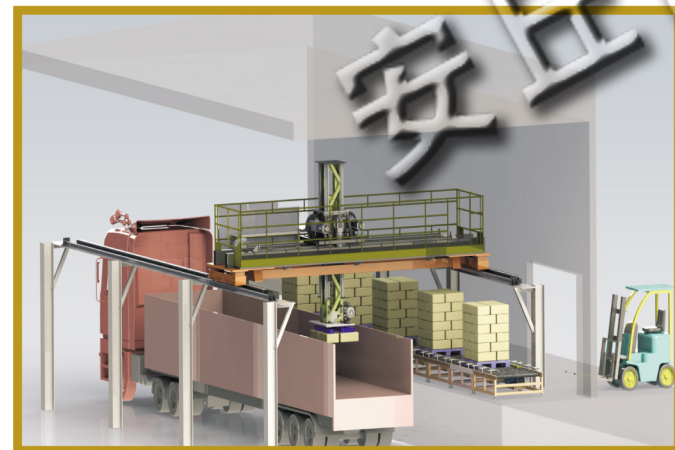
可移动式机器人



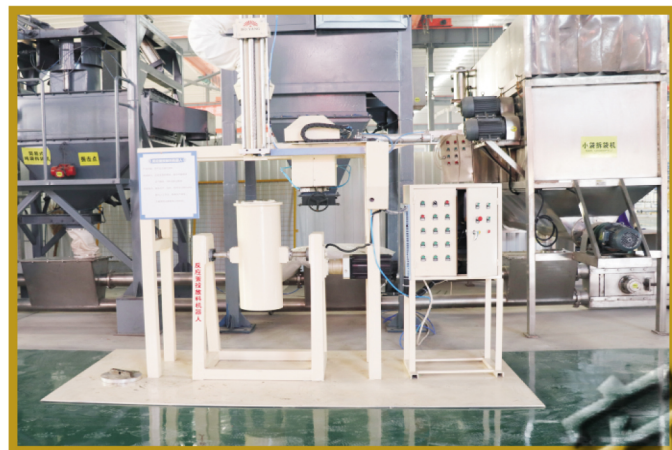
自动分拣生产线



自动分拣系统



桁架装车线



反应釜自动开盖机器人

自动拆垛、拆包、输送、包装、码垛生产线
Automatic destacking, unpacking, conveying,
packaging, palletizing production line

