



HAMCO MAKING HANDLING EASIER

鸿安, 让搬送变得简单

INTELLIGENT LOGISTICS EQUIPMENT AND SERVICE PROVIDER

智能物流技术装备及服务提供商

苏州鸿安机械股份有限公司
SUZHOU HAMCO MACHINERY CO.,LTD.



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HAMCO
MAKING HANDLING EASIER

HAMCO MAKING HANDLING EASIER

鸿安, 让搬送变得简单

使命
让搬送变得简单

MISSION
To make handling easier

愿景
成为智能物流技术装备领域领先的核心和专业服务提供商

VISION
Become a leading provider of core products and professional services in the field of intelligent logistics technical equipment

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关于鸿安 ABOUT HAMCO

20年+

技术积累和业务发展
Over 20 Years of Industry Experience

10+

大行业
10+ Industry Sectors

1000+

项目
1000+ Projects

10+

运维服务中心
10+ Service Centers

公司主要从事智能物流技术装备的研发、设计、制造和销售，并提供专业化的项目实施及运维服务。牢记“让搬运变得简单”的行业使命，鸿安经过二十年的技术积累和业务发展，拥有广泛的产品系列以满足各类物料的搬运需求。公司致力于为海内外物流系统集成商和终端客户提供可用于制造业、电商新零售、液晶半导体洁净工厂、食品饮料、医药化工、服装烟草、新能源等多个行业的设备及服务。

HAMCO is a high-tech enterprise specializing in the integration of R&D, design, manufacture, installation, commissioning, and after-sales service of intelligent logistics conveying equipment. “Making handling easier” has always been the greater mission of HAMCO. With more than 20 years of technological experience and business development, HAMCO has developed an extensive spectrum of products that cater to a wide variety of material handling needs. The company has successfully served both domestic and international logistics system integrators and customers across diverse industries, including manufacturing , e-commerce, new retail, LCD and semiconductor cleanroom factories, food and beverage, pharmaceutical and chemical, apparel and tobacco, as well as new energy, by offering them customized equipment and services tailored to their requirements.



发展历程 OUR HISTORY

2006

承接无锡海力士等液晶半导体工厂自动化设备的安装调试服务
Undertook the installation and commissioning services of automation equipment for LCD and semiconductor factories such as SK hynix.

2004

成立苏州鸿安机械有限公司, 并成为日本大福合作伙伴, 承接当时亚洲第一大库架合一自动化立体仓库项目。
Suzhou Hamco Machinery Co., Ltd. was established and became a partner of Japan Daifuku, undertaking the largest integrated warehouse and rack automated stereoscopic warehouse project in Asia at that time.

1997

成立深圳鸿安机械有限公司
Shenzhen Hamco Machinery Co., Ltd. was established.

1994

创始人刘大庆先生于深圳宝安机场货运系统项目结识日本大福
Founder Mr. Liu Daqing met Daifuku Japan during the Shenzhen Baoan Airport Freight System Project.

2019

建立“苏州市企业技术中心”, 成功研发环形穿梭车输送系统(RGV)及智能悬挂输送分拣系统。
Established "Suzhou Enterprise Technology Center" and successfully developed the Rail Guided Vehicle System (RGV) and the Suspension Chain Conveyor Sorting System.

2017

进入新零售领域, 成为盒马、大润发商超门店智能搬运系统供应商。
Launched in the new retail field and became the supplier of intelligent handling systems for Alibaba Freshippo and RT-Mart supermarkets.

2015

获评“国家级高新技术企业”
Won the title of "National High-tech Enterprise".

2014

自研液晶面板洁净工厂智能搬运系统, 并成为华星光电供应商。
Developed the intelligent handling system for LCD panel clean factories and became a supplier of TCL CSOT.

2022

建立“江苏省企业技术中心”和“苏州市工业设计中心”, 被评为“江苏省专精特新企业”和“江苏省智能制造领军服务机构”, 荣获霍尼韦尔颁发的“特殊贡献奖”。
Established the "Jiangsu Province Enterprise Technology Center" and "Suzhou Industrial Design Center", and awarded the "Specialized, Refined Differential and Innovative Enterprise of Jiangsu Province" and "Intelligent Manufacturing Leading Service Institution of Jiangsu Province", and won the "Special Contribution Award" from Honeywell.

2020-2021

承接泰国、印尼、波兰及智利等海外项目, 获评“中国大宗商品现代流通服务创新企业”。
Undertook overseas projects in Thailand, Indonesia, Poland and Chile, awarded the "China Bulk Commodity Modern Distribution Service Innovation Enterprise".
建立“江苏省(鸿安)智能物流装备工程技术研究中心”, 承接江苏省科技成果转化专项资金项目。
Established the "Jiangsu Province (Hamco) Intelligent Logistics Equipment Engineering Technology Research Center", and undertook the Jiangsu Province Science and Technology Achievement Transformation Special Fund Project.

2024

获评为国家级专精特新“小巨人”企业, 同时齐获“环境管理体系认证证书-ISO14001:2015”、“质量管理体系认证证书-ISO9001:2015”、“职业健康安全管理体系认证证书-ISO45001:2018”。
Won the title of National Specialized and New "Small Giant" Enterprise and simultaneously obtained the "Environmental Management System Certification-ISO14001:2015", "Quality Management System Certification-ISO9001:2015" and "Occupational Health and Safety Management System Certification-ISO45001:2018".

2023

获评为“国家知识产权优势企业”和“江苏省服务型制造示范企业”, 承接德国某电池工厂项目, 同时自研成功半导体洁净工厂智能搬运系统并成功投入市场应用。
Won the title of "National Intellectual Property Advantage Enterprise" and "Service-oriented Manufacturing Demonstration Enterprise of Jiangsu Province", undertook a battery factory project in Germany, and our self-developed intelligent handling system for semiconductor clean factories has been successfully introduced to the market.

QUALIFICATIONS AND HONORS
资质荣誉



- 国家知识产权优势企业
 - 国家专精特新“小巨人”企业
 - 江苏省民营科技企业
 - 江苏省智能制造领军服务机构
 - 江苏省服务型制造示范企业
 - 江苏省企业信用管理贯标证书
 - 2023年江苏省先进制造业和现代服务业深度融合试点企业
- 江苏省省级企业技术中心
 - 江苏省(鸿安)智能物流装备工程技术研究中心
 - 苏州市工业设计中心
 - 苏州市信用管理示范企业
 - 2022年苏州市智能制造优秀服务商
- National Intellectual Property Advantage Enterprise
 - National Specialized and New “Small Giant” Enterprise
 - Jiangsu Province Private Science & Technology Enterprise
 - Intelligent Manufacturing Leading Service Institution of Jiangsu Province
 - Service-Oriented Manufacturing Demonstration Enterprise of Jiangsu Province
 - Jiangsu Province Enterprise Credit Management Standards Implementation Certificate
 - 2023 Jiangsu Province Advanced Manufacturing and Modern Service Industry Deep Integration Pilot Enterprise
- Jiangsu Provincial-Level Enterprise Technology Center
 - Jiangsu (Hamco) Intelligent Logistics Equipment Engineering Technology Research Center
 - Suzhou Industrial Design Center
 - Suzhou Credit Management Demonstration Enterprise
 - 2022 Suzhou City Intelligent Manufacturing Excellent Service Provider

200+ 已授权200+专利(37件发明专利)
Granted over 200 patents (including 37 invention patents)



PRODUCTS AND SERVICES
产品与服务

托盘搬运系统
PALLET CONVEYOR SYSTEM

1	辊筒输送机	Roller Conveyor
2	链条输送机	Chain Conveyor
3	移载输送机	Transfer Conveyor
4	旋转输送机	Turntable Conveyor
5	伸缩输送机	Telescopic Conveyor
6	翻转输送机	Flipping Conveyor
7	自走台车	Rail Guide Trolley
8	自走输送机	Rail Guide Conveyor
9	自走旋转输送机	Self-propelled Rotating Conveyor
10	旋转移载输送机	Rotary Transfer Conveyor
11	升降输送机	Lifting Conveyor
12	顶升台	Jacking Platform
13	地牛垂直输送机	Lift for Hand Forklift
14	子母托盘折叠机	Sub-Pallet Folding Machine
15	空托盘垛整形机	Pallet Reshaper
16	拆码盘机	Palletizer/Depalletizer
17	拆叠托机	Destacker/Stacker
18	倍速链输送机	Accelerated Chain Conveyor
19	自由滚子链输送机	Free Roller Chain Conveyor

箱式搬运系统
CARTON & TOTE CONVEYOR SYSTEM

1	辊筒输送机	Roller Conveyor
2	皮带输送机	Belt Conveyor
3	顶升移载机	Jacking Transfer Conveyor
4	摆轮分拣机	Swivel Wheel Sorter
5	窄带分拣机	Narrow Belt Sorter
6	麦轮分拣机	Mecanum Wheel Sorter
7	伸缩辊筒机	Telescopic Roller Conveyor
8	转弯辊筒机	Curve Roller Conveyor
9	转弯皮带机	Curve Belt Conveyor
10	模组带输送机	Modular Belt Conveyor
11	倍速链输送机	Accelerated Chain Conveyor
12	顶升台	Jacking Platform
13	拆码箱机	Case Destacker/Stacker
14	翻转输送机	Flipping Conveyor

垂直搬运系统 / VERTICAL CONVEYOR SYSTEM

1	连续式垂直输送机	Continuous Vertical Conveyor
	链板式	Chain-plate Continuous Vertical Conveyor
	回转式	Rotary Continuous Vertical Conveyor
2	往复式垂直输送机	Reciprocating Vertical Conveyor
	框架式	Frame Vertical Conveyor
	悬臂式	Cantilever Vertical Conveyor
	双立柱式	Double Columns Vertical Conveyor
	单立柱式	Single Column Vertical Conveyor
3	特殊类垂直输送机	Special Vertical Conveyor
	AGV 接驳式	AGV Shuttling Vertical Conveyor
	多功能循环式	Multifunctional Cycle Vertical Conveyor
	密集存储式	High-density Storage Vertical Conveyor

INTELLIGENT LOGISTICS EQUIPMENT AND SERVICES SUMMARY
智能物流技术装备与服务汇总

穿梭车搬运系统/ RAIL GUIDED VEHICLE (RGV)

1	地面RGV/轻载	Ground-based RGV/Light Duty	直线穿梭车 环形穿梭车 轨道变换模块	Straight RGV Loop RGV Track Switching Module
2	地面RGV/重载	Ground-based RGV/Heavy Duty	直线穿梭车 环形穿梭车 轨道变换模块	Straight RGV Loop RGV Track Switching Module
3	空中RGV/轻载	EMS /Light Duty	直线穿梭车 环形穿梭车	Straight EMS Circular EMS
4	空中RGV/重载	EMS /Heavy Duty	升降型直线穿梭车 升降型环形穿梭车 无升降直线穿梭车 无升降环形穿梭车	Elevating Straight EMS Elevating Circular EMS Non-Elevating Straight EMS Non-Elevating Circular EMS

悬挂搬运系统
SUSPENSION CHAIN CONVEYOR SORTING SYSTEM

螺旋垂直输送机	Spiral Vertical Conveyor
回转式垂直输送机	Rotary Vertical Conveyor
推针输送机	Push-Pin Conveyor
合流输送机	Merging Conveyor
环形分拣线	Loop Sorting Line

洁净环境搬运系统
CLEANROOM CONVEYOR SYSTEM

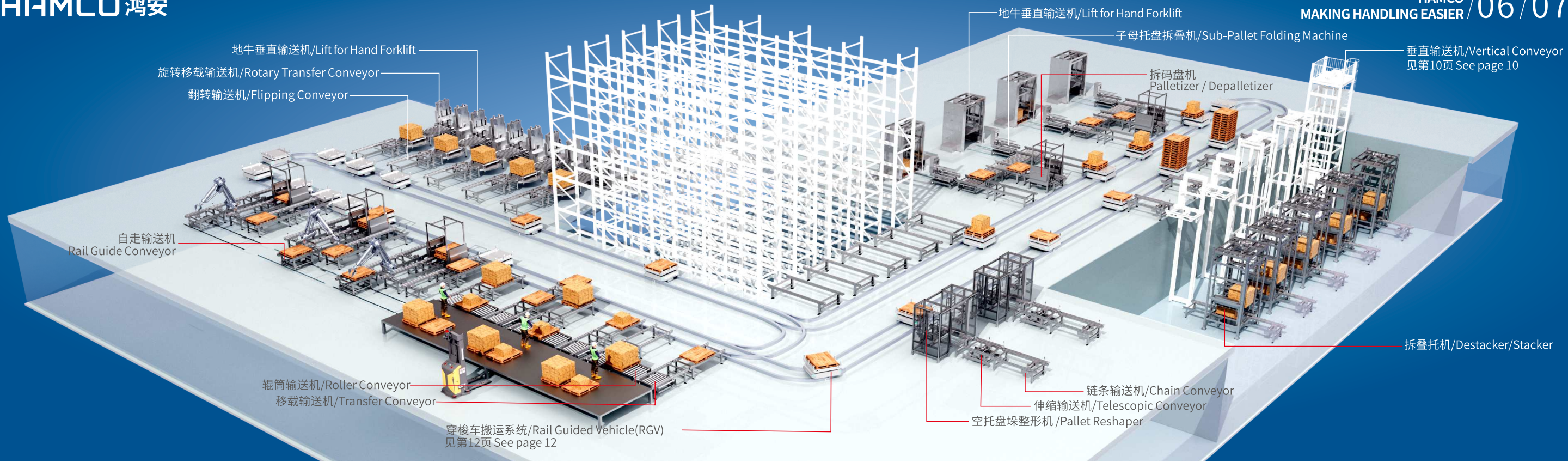
液晶面板垂直输送机	Clean Lift
液晶面板移载输送机	LUL(Loader/Unloader)
半导体晶圆盒垂直输送机	FOUP Lift
半导体晶圆前端模块	Sorters

项目实施服务
PROJECT IMPLEMENTATION SERVICES

系统搭建 System Construction	设备组装 Equipment Assembly
安装调试 Installation & Commissioning	联调运行 Joint Debugging & Operation

项目运维服务
PROJECT MAINTENANCE SERVICES

设备状态监控 Equipment Status Monitoring	定期检查保养 Regular Maintenance and Inspection
培训咨询 Training and Consultation	应急抢修 Emergency Repair
升级改造 Upgrade and Modify	



PALLET CONVEYOR SYSTEM

托盘搬运系统

应用场景	APPLICATION SCENARIOS
适用于-40℃~120℃环境	-40℃ to 120℃ Environment
适用于洁净环境	Clean environments
适用于防爆环境	Explosion-proof environments
适用于各种托盘尺寸	Various pallet sizes

全国物流标准化技术委员会托盘分技术委员会会员单位
Member of the Pallet Technical Committee of the National Logistics Standardization Technical Committee

50+ 已授权专利50件 / 50 authorized patents

设备参数/ Equipment parameters

	1 辊筒输送机/Roller conveyor	最大载重/Max. load 最大输送速度/Max. conveying speed	2000kg 30m/min
	2 链条输送机/Chain conveyor	最大载重/Max. load 最大输送速度/Max. conveying speed	3000kg 30m/min



广泛应用于自动仓储、物流配送、生产制造等场景
Widely used in automatic storage, logistics distribution, production and manufacturing scenarios.

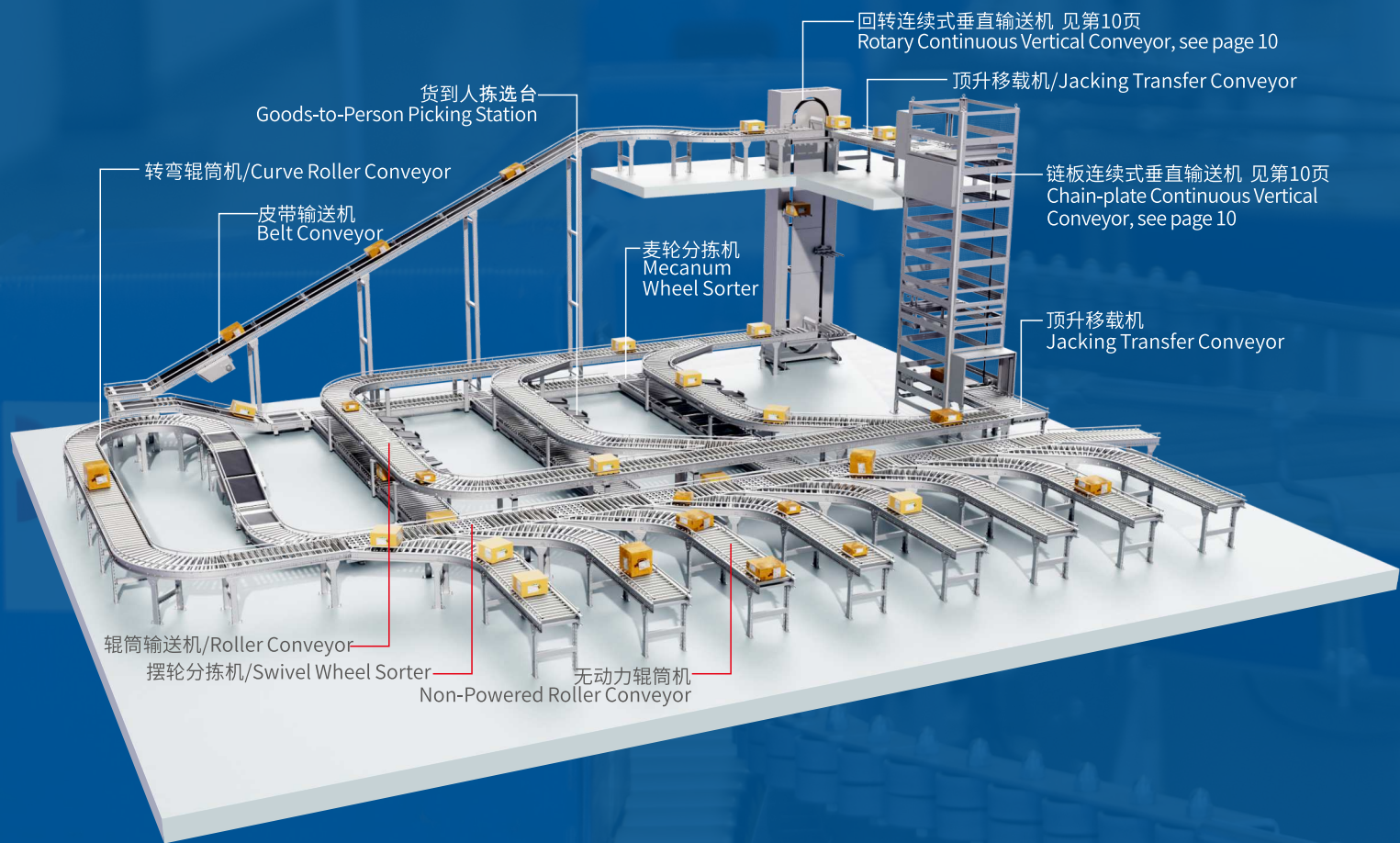


标准化制作、模块化组合、生产周期短、安装快捷、维护保养方便
Modular concept, short production cycle, quick installation, and convenient maintenance.



设备种类齐全，满足所有物流系统集成所需
Complete range of equipment, meeting all the needs of logistics system integration.

	3 移载输送机 Transfer conveyor	最大载重/Max. load 最大输送速度/Max. conveying speed 升降时间/Lifting time	3000kg 30m/min 3~6s
	4 地牛垂直输送机 Lift for hand forklift	最大载重/Max. load 最大升降速度/Max. lifting speed 最低输送面高度/Min. conveying height	2000kg 12m/min 70mm
	5 子母托盘折叠机 Sub-pallet folding machine	最大载重/Max. load 最大折叠能力/Max. handling capacity	1500kg 60托/小时 60pallets/hour
	6 拆码盘机 Palletizer/Depalletizer	最大载重/Max. load 最大折叠能力/Max. handling capacity	1000kg 15秒/件 15s/unit
	7 空托盘垛整形机 Pallet reshaper	最大载重/Max. load 最大折叠能力/Max. handling capacity	1000kg 90垛/小时 90stacks/hour
	8 旋转输送机 Turntable conveyor	最大载重/Max. load 90°转向时间/90-degree steering time	3000kg 6s
	9 自走输送机 Rail guide conveyor	最大载重/Max. load 最大行走速度/Max. travelling speed	3000kg 24m/min
	10 伸缩输送机 Telescopic conveyor	最大载重/Max. load 最大伸缩行程/Max. telescopic distance	2000kg 300mm



CARTON & TOTE CONVEYOR SYSTEM
箱式搬运系统



满足大流量的件箱类物流搬送需求
High throughput



机型齐全, 模块化生产制作
Extensive range of modular products



灵活、可拓展
Flexible and scalable

31 + 已授权专利31件 / 31 authorized patents

应用场景	APPLICATION SCENARIOS
大型仓储配送中心	Large-scale logistics distribution center
电商新零售	E-commerce & new retail
产线自动化	Factory production line

设备参数/ Equipment parameters

	1 辊筒输送机 Roller conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 输送机宽度系列/Width 模块长度/Module length	30/50/70/100kg 120m/min 400/500/600.../1000 Max. 2880mm
	2 皮带输送机 Belt conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 最大升角/Max. incline 模块长度/Module length	30/50/70/100kg 120m/min 20° Max.18m
	3 转弯辊筒/皮带机 Curve roller/belt conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 标准转弯角度/Turning Angles 转弯半径/Turning radius	30/50/70/100kg 120m/min 30°/45°/60°/90° 820mm
	4 顶升移栽机 Jacking transfer conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 最大移栽能力/Max. transfer capacity	30/50/70/100kg 60m/min 2000pcs/h
	5 摆轮分拣机 Swivel wheel sorter	额定载重/Rated load 最大输送速度/Max. conveying speed 最大分拣能力/Max. sorting capacity 分流方向/Diversion direction	30/50/70kg 120m/min 6000 pcs/h 双向任意角度分流 Two-way,any angle
	6 窄带分拣机 Narrow belt sorter	额定载重/Rated load 最大输送速度/Max. conveying speed 输送机宽度系列/Width 模块长度/Module length 最大分拣能力/Max. sorting capacity	30kg 120m/min 400/500/600.../1000 Max. 18m 2000pcs/h
	7 麦轮分拣机 Mecanum wheel sorter	额定载重/Rated load 最大输送速度/Max. conveying speed 最大分拣能力/Max. sorting capacity	30/50kg 60m/min 2000pcs/h
	8 模组带输送机 Modular belt conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 模块长度/Module length	30/50/70/100kg 30m/min Max.18m
	9 拆码箱机 Case destacker/stacker	最大载重/Max. load 单箱码垛循环时间 Single box stacking cycle time	150kg/垛stack 8s
	10 翻转输送机 Flipping Conveyor	额定载重/Rated load 最大输送速度/Max. conveying speed 翻转段长度/Flipping section length 翻转时间/Flipping time	30/50/70/100kg 120m/min 800mm 3s

VERTICAL CONVEYOR SYSTEM

垂直搬运系统

往复式垂直输送机/Reciprocating vertical conveyor

通过轿厢往复运行的方式，满足不同载重货物在多个高度层间的垂直搬运需求。
The vertical transportation of different loads at multiple heights can be achieved by the reciprocating operation of the elevator car.

	框架式 Frame vertical conveyor	悬臂式 Cantilever vertical conveyor	双立柱式 Double columns vertical conveyor	单立柱式 Single column vertical conveyor
最大载重/Max. Load	3000kg	1500kg	1500kg	200kg
最大升降速度/Max. lifting speed	120m/min	60m/min	60m/min	180m/min



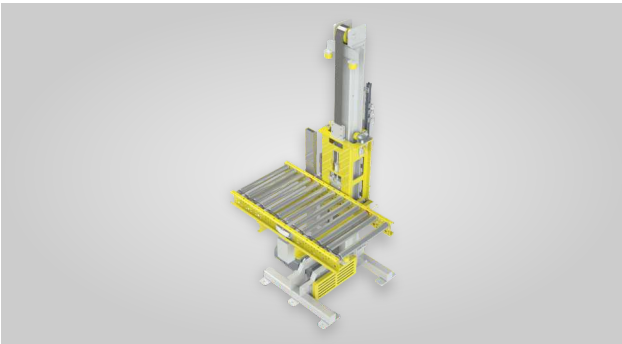
框架式
Frame vertical conveyor



悬臂式
Cantilever vertical conveyor



双立柱式
Double columns vertical conveyor



单立柱式
Single column vertical conveyor

连续式垂直输送机/Continuous vertical conveyor

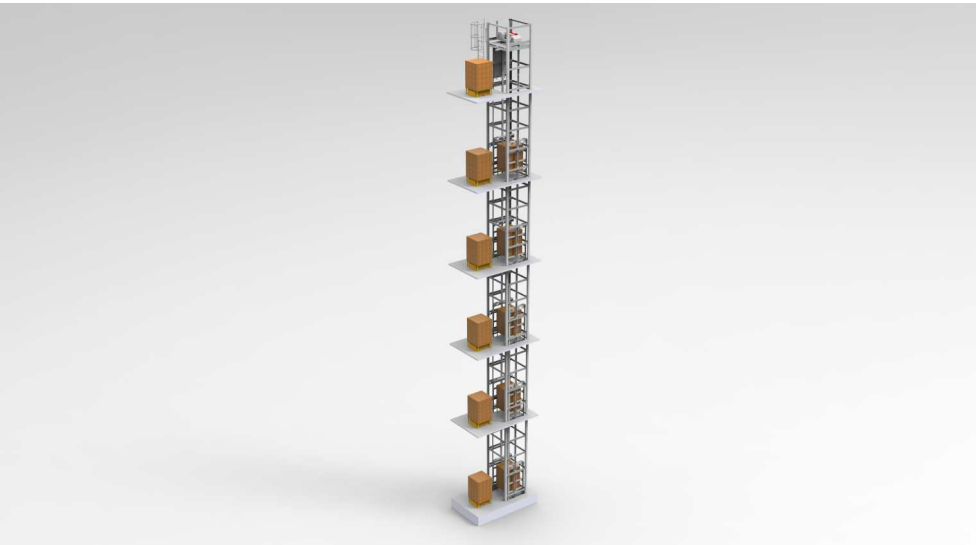
通过不间断连续搬运的方式，满足件箱类物品高速大流量的垂直搬运需求。
It is widely used in the vertical conveying of box-type items when meeting the demand for high-speed and high-throughput transport.

	链板式 Chain-plate continuous vertical conveyor	回转式 Rotary continuous vertical conveyor
最大搬运能力/Max.conveying capacity	1500 pcs/h	2000 pcs/h
最大升降速度/Max. lifting speed	36m/min	30m/min
最大载重/ Max. Load	100kg	30kg
搬运形式Infeed / Outfeed types	C Z	C Z L A



特殊类垂直输送机 /Special vertical conveyor

根据用户的定制化需求，开发了AGV接驳式、多功能循环式、密集存储式等一系列应用于特定场景的垂直输送机，可满足超高、超重、超大尺寸、防爆、无尘、冷库、室外等特殊搬运需求。
We have developed AGV Shuttle, Multifunctional Cycle, and High-density Storage Vertical Conveyor tailored for various scenarios, addressing special handling needs like ultra-high/heavy/large loads, explosion-proof, dust-free, cold storage, and outdoor applications.



AGV接驳式 / AGV Shuttling vertical conveyor



场地空间利用率高
Small footprint



运载量大
High throughput



高扬程
Long-distance cross-floor transportation



连续高速输送
Continuous high-speed transport



定位精准
Accurate positioning

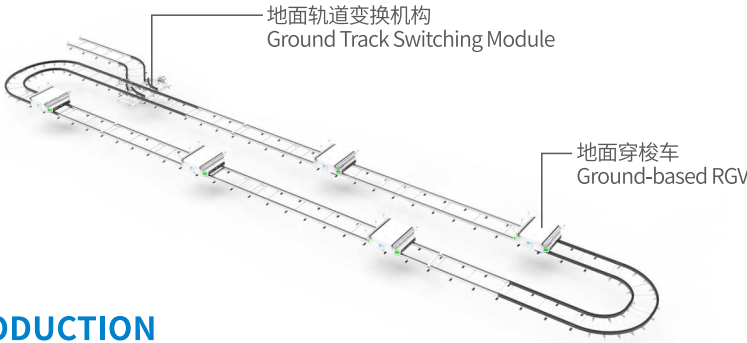
被认证为
“苏州制造”、“江苏精品”
Certified as
"Made in Suzhou",
"Quality Product
of Jiangsu"

47+

已授权专利47件
47 authorized patents

RAIL GUIDED VEHICLE (RGV)

穿梭车搬运系统



系统介绍/SYSTEM INTRODUCTION

RGV输送系统是一种在固定轨道上进行快速移动的台车, 可对接输送机、伸缩货叉等模块单元, 通过智能调度系统的灵活调度分配, 多车高效协同, 准确将物料配送到设定站台。

The RGV conveying system comprises rapidly moving vehicles that operate on a fixed rail, interfacing seamlessly with various modular units, such as conveyors and telescopic forks. Through an intelligent dispatching system, multiple RGVs collaborate efficiently to accurately transport loads to the designated stations along the rail.

设备参数/ Equipment parameters

	箱式轻载 Light-Duty	轻载 Light-Duty	重载 Heavy-Duty
最大载重/Max. load	100kg	2000kg	3000kg
行走速度/Travel speed	260m/min (实载Loaded) 300m/min (空载Empty)	160m/min (实载 Loaded) 200m/min (空载 Empty)	120m/min (实载 Loaded) 160m/min (空载 Empty)
加速度/Acceleration	1.5m/s ² (实载Loaded) 2.5m/s ² (空载Empty)	0.5m/s ² (实载 Loaded) 1m/s ² (空载 Empty)	0.3m/s ² (实载 Loaded) 0.5m/s ² (空载 Empty)
定位精度/Positioning accuracy	±1mm	±2mm	±3mm
变轨时间/Track switching	0s	≤1.5s	≤2s

应用场景	APPLICATION SCENARIOS
物流仓储自动化	Automated Storage&Retrieval System (AS/RS)
工厂产线自动化	Production line
快递物流	Express Logistics



- 智能调度
Intelligent scheduling
- 智能变轨
Track switch
- 跨区搬送
Long-distance transportation
- 节能
Energy-saving

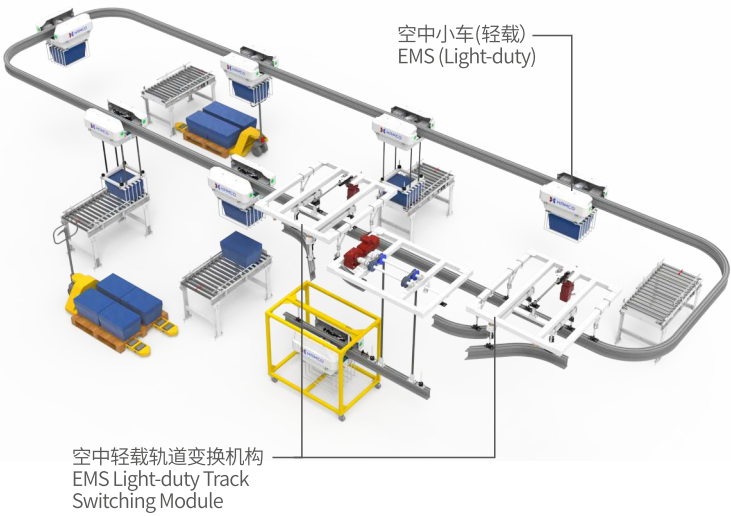
ELECTRICAL MONORAIL SYSTEM(EMS)

电动单轨物流输送系统

系统介绍/SYSTEM INTRODUCTION

EMS输送系统是一种架空运输小车, 通过天花板上或立柱架空的轨道进行设备行走, 并进行运送货物工作。

The EMS(Electrical Monorail System)logistics transportation system is an overhead transport trolley that operates along tracks installed on the ceiling or on overhead stands to move and deliver goods.



设备参数/ Equipment parameters

	双轨轻载 Light-Duty	轻载 Light-Duty	重载 Heavy-Duty
最大载重/Max. load	100kg	100kg	1000kg
行走速度/Travel speed	260m/min (实载Loaded) 300m/min (空载Empty)	260m/min	60m/min
加速度/Acceleration	1.5m/s ² (实载Loaded) 2.5m/s ² (空载Empty)	1m/s ²	0.5m/s ²
定位精度/Positioning accuracy	±1mm	±2mm	±2mm
升降速度/Lifting speed	60m/min	60m/min	—
升降加速度/Lift acceleration	1m/s ²	1m/s ²	—
最大升降行程/Max.lifting stroke	4.5m	4.5m	3m

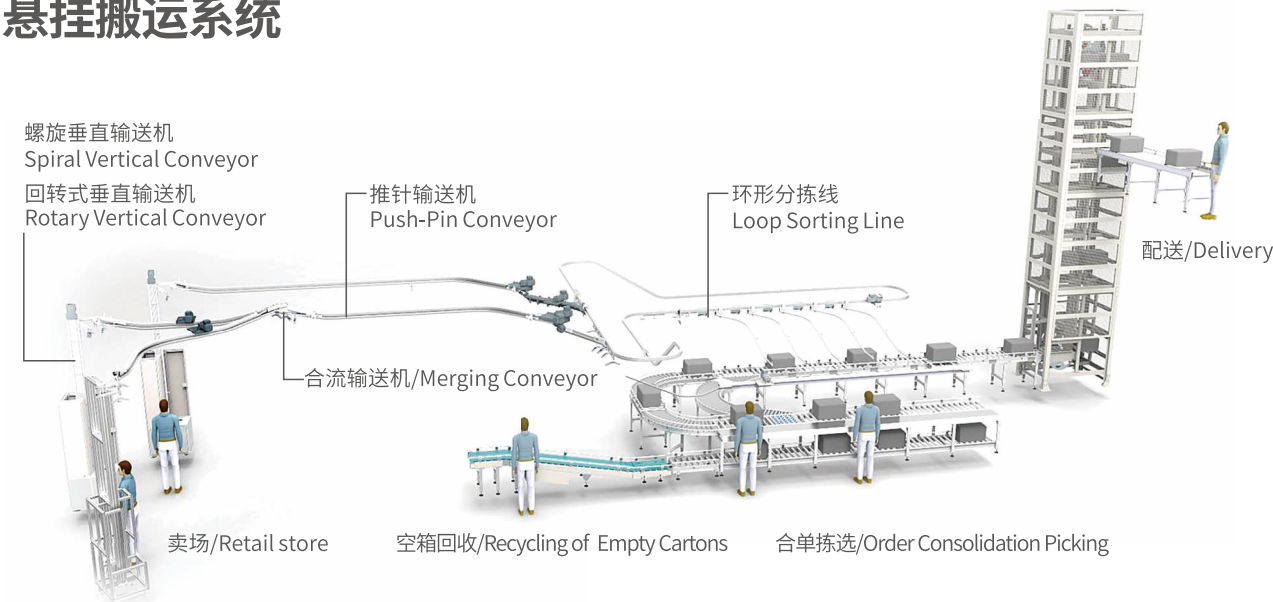
产品分类/ Product Classification



应用行业/ Industry Applications

- 食品饮料
Food and beverage
- 医药化工
Pharmaceutical and chemical
- 电商新零售
E-commerce
- 新能源
New energy
- 汽车
Automobile

SUSPENSION CHAIN CONVEYOR SORTING SYSTEM
悬挂搬运系统



系统介绍

悬挂搬运系统通过智能识别、分析和决策等方式完成多个物流功能区的智能高效协同运动，满足物料小批量、多批次、高流量的搬运需求，大幅提高物料的整体输送分拣效率。

SYSTEM INTRODUCTION

The system utilizes intelligent recognition, analysis, and decision-making methods to achieve smart and efficient collaborative operations across multiple logistics functional areas. This system meets the requirements for handling small batches, multiple shipments, and high-volume material flows, greatly improving the overall material transportation and sorting efficiency.

应用场景	APPLICATION SCENARIOS
电商新零售 (盒马、大润发)	E-commerce & new retail (Freshippo and RT-Mart)
纺织服装	Textile & Apparel

设备参数/ Equipment parameters

1	螺旋垂直输送机/ Spiral vertical conveyor	最大输送速度/ Max . conveying speed	18m/min
2	合流输送机/ Merging coneyor	最大输送速度/ Max . conveying speed 最大输送能力/Max . conveying capacity 挂钩间距/ Hanger spacing	30m/min 3000pcs/h 254mm
3	推针输送机/ Push-pin conveyor	最大输送速度/ Max . conveying speed 最大输送能力/Max . conveying capacity 最大斜角/ Max . incline/decline	54m/min 5500pcs/h 45°
4	环形分拣线/ Loop sorting Line	最大输送速度/ Max . conveying speed 最大分拣能力/ Max . sorting capacity 挂钩间距/ Hanger spacing	30m/min 6300pcs/h 254mm
5	回转式垂直输送机/ Rotary vertical conveyor	最大输送速度/ Max . conveying speed 最大输送能力/Max . conveying capacity	33m/min 2000pcs/h

超600+门店的项目经验
Operational experience
in over 600 stores

高效输送
Efficient conveyance

噪音
Low noise emission
≤ 70分贝db

输送物最大重量
Max. load 7kg

CLEANROOM CONVEYOR SYSTEM
洁净环境搬运系统

系统介绍/SYSTEM INTRODUCTION

液晶面板及半导体产业对生产制造、搬送存储过程中环境的洁净度要求非常高,公司研发了一系列洁净环境专用设备,包括液晶面板垂直输送机、液晶面板移栽输送机、半导体晶圆盒垂直输送机、半导体晶圆前端模块等。

The LCD and semiconductor industries have exceptionally high standards for environmental cleanliness during production, transportation, and storage processes. Our AMHS transport system provides tailored solutions for cleanrooms.

液晶面板垂直输送机/CLEAN LIFT

洁净升降机是液晶行业洁净车间跨楼层所需的垂直输送系统,通过LFC及PLC控制轿厢升降,实现液晶面板存储单元(Tray盘/卡匣)跨楼层搬运。

The clean lift, essential for cross-floor transport in LCD clean rooms, utilizes LFC and PLC to manage cage movement, facilitating the transport of LCD panel storage units (Tray plates /Cassettes) between floors.



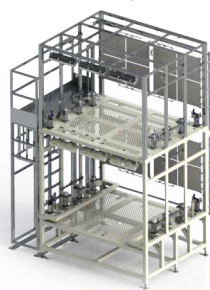
设备参数/ Equipment parameters

升降输送速度/Lifting speed	0~90m/min
升降输送加速度/Acceleration	0.5m/s ²
最大载重/Max. load	1500kg
设备震动系数/ Vibration coefficient	0.3g
设备使用环境/ Cleanroom classification	Class10-10000

液晶面板移栽输送机/LUL (Loader/Unloader)

LUL串接液晶面板工厂的物料储存与搬送,通过BC技术控制机器人将基板从储存单元取出至移栽机并输送到各个制程。

LUL links LCD panel factory's material storage & transportation, using BC technology to control robots that retrieve panels from storage units, load onto transfer machine, and deliver to various manufacturing processes.



设备参数/ Equipment parameters

装载卡匣/Loading cassette	20~30s
退卸卡匣/Unloading cassette	15~20s
最大载重/Max. load	2000kg
设备震动系数/ Vibration coefficient	0.3g
设备使用环境/ Cleanroom classification	Class10-10000

半导体晶圆盒垂直输送机/ FOUP LIFT

该产品主要应用于半导体行业晶圆盒的跨楼层垂直搬送环节,占地面积小,成本相较于Tower STK更有优势。

This product is primarily applied to the vertical transportation of wafer boxes across floors in the semiconductor industry, with a compact footprint and more cost-effective compared to Tower STK.

设备参数/ Equipment parameters

升降输送速度/Lifting speed	0~90m/min
升降输送加速度/Acceleration	0.5m/s ²
最大载重/Max. load	50kg
设备震动系数/ Vibration coefficient	0.3g
设备使用环境/ Cleanroom classification	Class10-10000

半导体晶圆前端模块 /SORTERS

该产品用于半导体行业晶圆拣选环节,集成晶圆自动寻边、高精度CCD对位、FOUP自动拆盖、晶圆自动Mapping及多模式混合排列等功能。

This product is mainly used for the wafer picking process in the semiconductor industry, integrating advanced functions such as automatic wafer edge detection, high-precision CCD alignment, automatic FOUP lid removal, wafer automatic mapping, and multi-mode mixed wafer arrangement.

设备参数/ Equipment parameters

晶圆盒开盖/FOUP opening	20~25s
晶圆盒关盖/ FOUP closing	10~15s
最大载重/Max. load	30kg
经过OCR传片能力/OCR-based image transmission capacity	330WPH
设备使用环境/ Cleanroom classification	Class10-10000

OUR SERVICES
我们的服务

项目实施服务
PROJECT IMPLEMENTATION SERVICES

公司优势/COMPANY ADVANTAGES

公司已熟练掌握了常规及复杂工况（如洁净工厂、冷库、高温、防爆区、大型配送中心等）下实施系统运行的技术，通过PMS项目管理软件及专业的项目实施管理团队，可高效、精准的完成项目交付，最大化实现物流系统性能。

The company adeptly manages system operations in diverse logistics settings, including clean factories for LCD semiconductors, low/high temperature storages, explosion-proof zones, and large distribution centers, using PMS software and a dedicated team to ensure efficient project delivery and maximize logistics system performance.

- 

系统搭建
System construction
- 

设备组装
Equipment assembly
- 

安装调试
Installation & commissioning
- 

联调运行
Joint debugging & operation

项目运维服务
PROJECT MAINTENANCE SERVICES

公司优势/COMPANY ADVANTAGES

公司提供应急抢修、备件更换和系统升级等运维服务，并在全国主要城市设有服务中心，确保智能物流技术装备稳定运行。目前，公司已为华星光电、京东方等多家液晶半导体行业客户提供驻场服务。

HAMCO offers maintenance services including emergency repairs, spare parts replacement, and system upgrades. With service centers in major cities nationwide, we ensure stable operation of intelligent logistics equipment. To date, we have provided on-site services for clients in the LCD semiconductor industry, such as TCL CSOT and BOE.

- 

10+运维服务中心
10+ Service centers
- 

设备状态监控
Equipment status monitoring
- 

近200名运维工程师
Nearly 200 after-sales engineers
- 

培训咨询
Training and consultation
- 

定期检查保养
Regular maintenance and inspection
- 

升级改造
Upgrade and modify
- 

应急抢修
Emergency repair

项目案例/ PROJECT CASES



液晶面板行业/ LCD Panel Industry
京东方 (BOE) B7、B9、B10、B11、B17 项目 / 华星光电 (TCL CSOT) t1、t2、t3、t4、t6、t7、t9、M7 项目
惠科滁州工厂、重庆工厂项目 / HKC Chuzhou, Chongqing Factory
深天马上海工厂、武汉工厂项目 / TIANMA Shanghai, Wuhan Factory



半导体行业/Semiconductor Industry
Sk海力士无锡工厂项目 / SK hynix Wuxi Factory 三星西安工厂项目 / Samsung Xi'an Factory



常规环境/ General Environment
得力文具宁海立库项目 / Deli Stationery Ninghai Warehouse 海澜之家江阴项目 / HLA Jiangyin Factory
格力珠海工厂项目 / Gree Zhuhai Factory

OUR USERS
我们的用户

企业合作伙伴 / ENTERPRISE PARTNERS



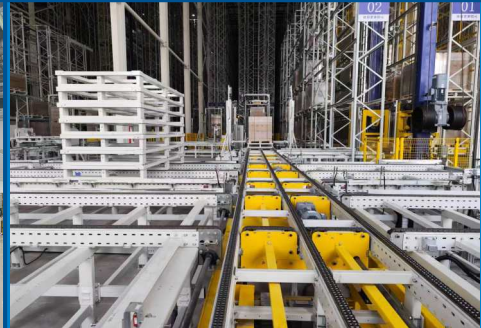
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院校合作伙伴 / INSTITUTIONAL PARTNERS



项目案例

INDUSTRY APPLICATIONS

新能源 New energy					医药化工 Pharmaceutical and chemical
	德国某电池厂项目 A battery factory project in Germany	光伏 Photovoltaic	医药 Medicine	泰国某石油项目 A petrochemical project in Thailand	
洁净工厂 Clean room factory					服装烟草 Apparel and tobacco
	液晶面板垂直输送机 Clean Lift	半导体晶圆盒垂直输送机 FOUP Lift	服装 Clothing	烟草 Tobacco	
食品饮料 Food and beverage					电商新零售 E-commerce
	饮料 Beverage	粮油 Grain and oil	电商 E-commerce	电商 E-commerce	