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## 移动机器人系统及解决方案

Mobile Robot +  
System & Solutions



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新松订阅号





沈阳新松机器人自动化股份有限公司(以下简称“新松”)成立于2000年,是一家以机器人技术和智能制造解决方案为核心的高科技上市公司。新松拥有4000余人的研发创新团队,坚持走自主创新之路,完成国家重要科技攻关800余项,拥有发明专利1300余项,书写了中国机器人发展史上百余项“行业首创”!

作为国家机器人产业化基地,新松以智能制造为业务主攻方向,为产业升级提供全体系核心支撑,打造了以自主核心技术、核心零部件、核心产品及行业系统解决方案为一体的全产业价值链。新松拥有自主知识产权的工业机器人、移动机器人、特种机器人三大类核心产品,以及焊接自动化、装配自动化、物流自动化三大应用技术方向,同时面向国家主导产业及战略新兴产业,持续孵化汽车工业、电子工业、半导体、新能源、智慧城市、智慧康养等N+个具有高度竞争力和良好成长性的优势战略业务,构建了健康科学可持续发展的产业体系。立足中国,服务世界!新松本部位于沈阳,在沈阳、上海、青岛、天津、无锡等国内多个经济热点城市建有产业园区。同时积极布局国际市场,在韩国、新加坡、泰国、马来西亚、德国等多地设立海外分子公司及区域中心。在海外拥有专业的项目工程团队和先进的研发生产基地,实现海外项目本地化实施及服务。产品已累计出口全球40多个国家和地区,为4000余家国际企业提供产业升级服务,与多家世界500强企业建立深度合作关系,规模化客户群体占比高达2/3!

肩负着“机器人让世界更美好”的神圣使命,新松将在新时代新征程上守正创新、拼搏奋进,永葆“中国速度”,永创“中国水平”,剑指行业领先,争创世界一流!

SIASUN Robot & Automation Co., Ltd. (hereinafter referred to as "SIASUN"), established in the year of 2000, which is a high-tech listed enterprise with robotic technology and intelligent manufacturing solutions as the core. SIASUN has a R&D and innovation team of more than 4,000 talents. SIASUN insists on the road of independent innovation. SIASUN has completed more than 800 national important scientific and technological research projects, and has more than 1,300 invention patents. SIASUN has written more than 100 "industry initiative" in the history of Chinese robot development!

As a National Engineering Center on Robotic, SIASUN takes intelligent manufacturing as its main business direction, provides the core support of the whole system for industrial upgrading, and creates the whole industry value chain consists of core technology, core components, leading products and industry solutions. SIASUN has three core products of industrial robots, mobile robots and special robots with independent intellectual property rights, and three application technology directions of welding automation, assembly automation and logistics automation. SIASUN will continuously incubate more strategic businesses with highly competitive ability & good growth potential in national leading industries and emerging strategic industries such as automotive industry, electronic industry, semiconductor, new energy, smart city, smart healthcare, to build a healthy, scientific and sustainable industrial system.

Based in China, serve the world! SIASUN group HQ locates in Shenyang, and has industrial parks in Shenyang, Shanghai, Qingdao, Tianjin, Wuxi and other domestic economic hot spot cities. On the other hand, SIASUN actively deploying the international market, and has established overseas subsidiaries and regional centers in South Korea, Singapore, Thailand, Malaysia, Germany and etc. SIASUN has professional project engineering teams and advanced R&D and production bases overseas to realize localized implementation and services for overseas projects. Products have been exported to more than 40 countries and regions around the world, providing industrial upgrading services for more than 4,000 international companies, and establishing in-depth cooperation with many Fortune 500 enterprises, and the proportion of scale customer groups is nearly 70%!

With the sacred mission of "Robots make a better world", SIASUN will keep innovation and strive ahead in the new era and new journey, always maintain the "Chinese speed", always create the "Chinese level", lead the industry and strive to be world-class!

## 智能AGV自动化系统 Intelligent AGV Automatic System

新松公司作为“机器人国家工程研究中心”、“国家863计划智能机器人主题产业化基地”和科技部命名的“国家高技术研究发展计划成果产业化基地”,新松(原中科院沈阳自动化研究所)早在20世纪70年代末80年代初,就开始了对AGV基础性技术研究,AGV产品走向市场是在1991年承接某客户“总装车间发动机、油箱、后桥AGV及副环线装配系统”项目。从2007年开始,拥有自主知识产权的新松AGV产品开始批量出口到美国、加拿大、俄罗斯、韩国、印度等国外市场,开创了国产机器人出口的先河。

新松AGV以用户需求为产品原则、为用户量身定制个性化解决方案为宗旨,形成系列化、多型号的AGV产品。新松AGV支持电磁导航、磁带导航、激光导航等多种导航方式,供电方式分为电池供电及感应供电。如今,新松的AGV产品已经走上了产业化发展道路,广泛应用于汽车制造、机械加工、电子、纺织、造纸、医药、卷烟、食品、图书出版等行业。

As the National Engineering Research Center on Robotics, Robot Industrialization Base of the National 863 Program and Achievement Industrialization Base of the National Hi-Tech R&D Program(given by The Ministry of Science and Technology of the People's Republic of China), SIASUN has started AGVs fundamental research at the end of 1970s. Along with the completion of project "AGV assembly system for motor, fuel tank and rear axle in general chassis plant" in 1991, SIASUN AGVs have successful stepped into market. From the year of 2007, SIASUN AGVs that with self-property right have been batch exported to America, Canada, Russia, Korea, India, etc. which has rewritten the history of domestic robots on SIASUN places customer needs as the product principle by providing custom solution, and develops different types of AGVs. SIASUN AGVs support different ways of navigation: electronic magnetic navigation, magnetic tape navigation: electronic magnetic navigation, magnetic tape navigation and laser target navigation, etc. Power supply mode can be battery or inductive power Transfer (IPT). Now SIASUN AGVs have entered industrialization period these days. SIASUN AGVs are extensively be used in the fields of automobile manufacturing, machining, electro, spinning, papermaking, medicine, tobacco, food and publishing.

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# 搬运型 AGV

## Transfer

### 应用案例 Application Cases

#### 发动机测试间运输型LGV Transport LGV in engine Testing Room

柴油机辊道移栽搬运型AGV是新松公司根据柴油机测试车间物料输送的实际要求而开发设计的系列产品。其运行控制采用新松标准的AGV控制模式，驱动方式采用双舵轮驱动实现AGV全方位运行，导航方式采用激光导航，根据负载大小形成系列产品。

SIASUN Transport AGV (Roller Convey) for Diesel Engine is designed to move loads in diesel testing room, which adopts SIASUN standard AGV control mode, laser navigation and two steering wheel driving mode to realize omni-directional movement. It can be custom made according to the load.



应用于潍柴动力股份有限公司现场  
AGVs applied in Weichai Power



应用于潍柴动力股份有限公司现场  
AGVs applied in Weichai Power



应用于中国重汽济南动力有限公司现场  
AGVs applied in SINOTRUK Jinan Power CO.,LTD



应用于广西玉柴动力公司现场  
AGVs applied in Guangxi YUCHAI Power Machinery CO.,LTD

# 搬运型 AGV

## Transfer

### 应用案例 Application Cases

#### 升降移栽运输型AGV Lift/lower Transport AGV

升降移栽搬运型AGV是新松公司根据化工行业客户的要求而研发的背负式AGV产品。主要由AGV车体、升降定位装置等组成。该设备承担物料罐体升降接货、运输、升降卸货等工作。

Lift/lower Transport AGV is a type of unit load AGVs designed to meet customers' needs in chemical industry. It consists of AGV body, lift/lower equipment and positioning device, etc. It can carry out material tank transportation, lifting and unloading.



应用于烟台汇众现场  
AGVs applied in Yantai Huizhong Co., Ltd.



应用于广州雅芳现场  
AGVs applied in AVON products (China) Co., Ltd.



应用于比泽尔现场  
AGVs applied in BITZER Refrigeration Technology (China) Co., Ltd.



应用于菲亚特现场  
AGVs applied in F.I.A.T Chongqing Co., Ltd.

# 搬运型 AGV

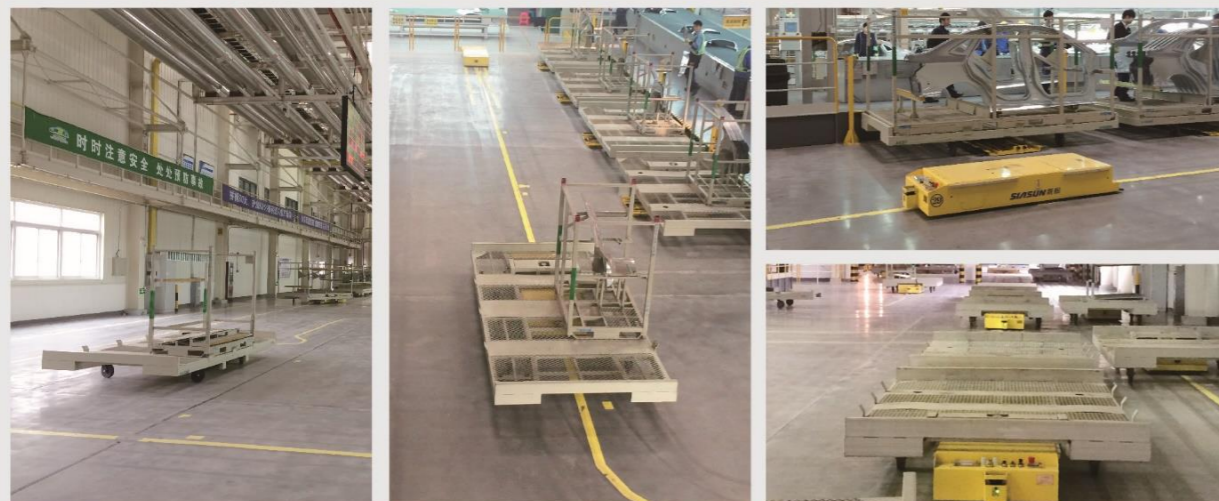
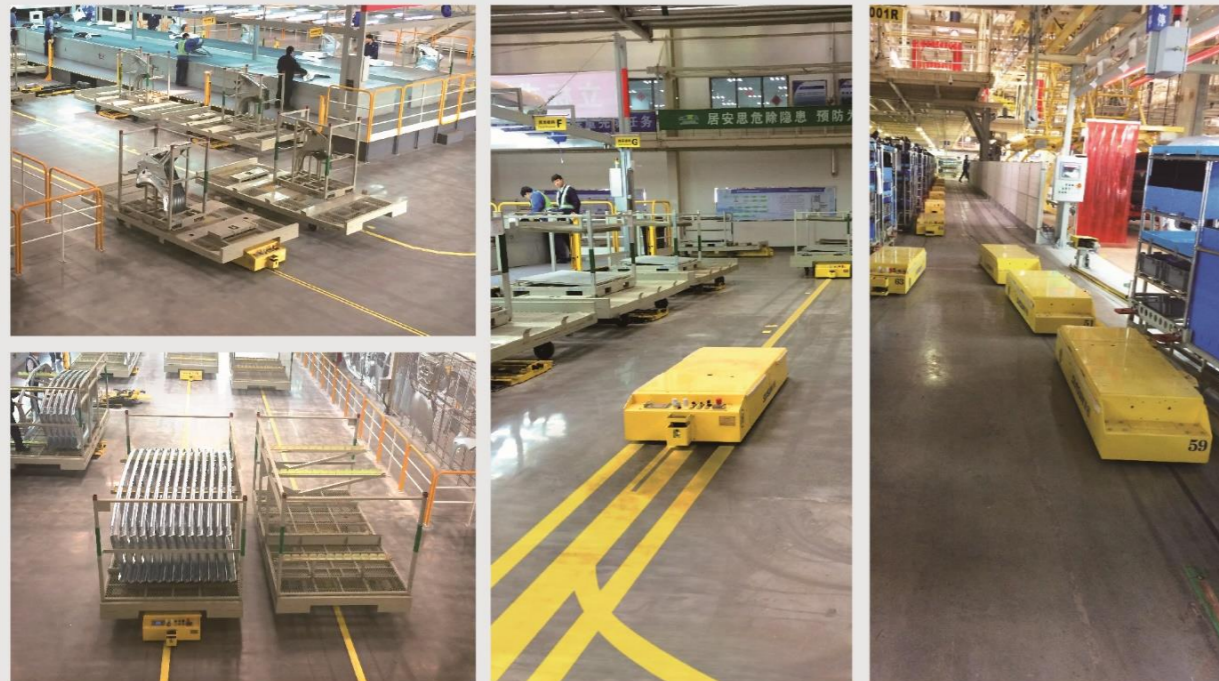
## Transfer

### 应用案例 Application Cases

#### AGC输送系统 AGC system

新松公司为通用武汉公司车间物流精心设计的 AGC 输送系统，满足在复杂路径、多任务情况下按客户要求输送车间物料，一期 118 台，二期 148 台 AGC 正平稳可靠地运行于武汉现场，是新松公司与通用公司全球合作中的又一经典案例。

Siasun has specially designed AGC transportation system for GM Wuhan company, it can realize the material transportation with complex ways and multiple tasks according to customer's requirement. All the AGC including 118 sets for phase 1 and 148 sets for phase 2 are working stably and reliability in the GM Wuhan situation which is a typically application between Siasun and GM global cooperation.



通用武汉现场  
AGVs applied in GM Wuhan

#### 辊道移栽运输型AGV Roller Conveyor Transport AGV

通用辊道移栽搬运型 AGV 是新松公司根据物料输送的实际要求而开发设计的系列产品。其运行控制采用新松标准的 AGV 控制模式，按照驱动方式分为双轮差动、单舵轮驱动、双舵轮驱动；按照导航方式分为磁导航和激光导航。车体上安装不同类型的输送辊道实现货物的单向自动转载或双向自动转载。

General roller conveyor transport AGV is designed to meet the needs of material handling. Its movement control adopts Siasun standard AGV control mode. According to drive mode difference General Roller conveyor transport AGV can be type of differential-wheel drive unit, single steering wheel drive unit, and double steering wheels drive unit. Its navigation mode adopts magnetic laser. By installing different roller conveyor, this AGV can realize one/dual directional loading&unloading.



应用于国家电网应用  
AGVs applied in State Grid Corporation of China



应用于西安法士特有限责任公司现场  
Applied in Xi'an Fast Auto Drive Group



中航锂电现场  
AGVs applied in China Aviation lithium Battery(Luoyang) Co.,Ltd.



古岛定制  
AGVs for Shanghai Gudao automatic equipment Co.,Ltd.



辉山定制  
AGVs for China Huishan Dairy Holding Co., Ltd.



众和现场  
AGVs applied in Xinjiang Zhonghe Co., Ltd.

# 装配型 AGV

## Assmblly

### 应用案例 Application Cases

#### 电动筒式单举升装配型AGV Electric single column lifting AGV

AGV-A1000D (2) 型AGV主要由AGV车体、AJS1000型升降机两部分组成。主要适用于小型汽车的动力总成(重量小于500kg)与白车身合装,用于有压缩减振弹簧的后悬挂总成与白车身合装。

AGV-A1000D(2) is consisted of AGV body and AJS1000 lifting device. It is mainly used in small car power assembly (less than 500kg) & body's assembly, and suspension (with compression springs) & automobile assembly.



#### 电动剪式双举升装配型AGV Electric Scissors Dual Lift Assembly AGV

AGV-A2000A (2) -III型AGV为新松公司根据用户的要求而研发双举升AGV产品,主要由AGV车体、两台电动剪式升降机等组成。特点是具有更大的承载能力,可实现全方位滑动平台升高自动解锁,满足动力总成托盘自动转载的需要。升降机具有防止坠落装置,安全性、可靠性大大提高。主要适用于底盘线低的动力总成、后悬挂总成与白车身合装。

AGV-A2000A(2) -III AGV is a kind of dual lift AGV developed by SIASUN based on customer requirements. It is mainly consisted of AGV body and two sets of electric scissors lift. It has advantages of much heavier load capacity, omnibearing sliding plate elevation automatic unlocking. It can satisfy the requirements of dynamic compliance plate automatic transfer. The lift has dropping protective setting, which can improve the safety and reliability. It is used for lower chassis dynamic compliance, and used for rear suspension and car body compliance.



装配型AGV是新松公司AGV产品中的核心产品。根据产品用途分为汽车底盘装配型AGV、柴油机装配型AGV和变速箱装配型AGV等,每种类型根据不同用户的要求有更详尽的分类。

Assembly AGVs are the core products of SIASUN AGV. According to function difference, assembly AGVs can divide into assembly AGV for chassis, assembly AGV for diesel and assembly AGV for gear box, etc. Every type of AGV can be custom made based on user's needs.

#### 电动剪式单举升装配型AGV Electric single scissors lifting AGV

AGV-A1000S1 (1) 型AGV主要由AGV车体、电动剪式升降机两部分组成。主要适用于汽车的动力总成与白车身合装,用于有压缩减振弹簧的后悬挂总成与白车身合装。

AGV-A1000S1(1) is consisted of AGV body and electronic scissors lifting device. It is mainly used in car power assembly (less than 500kg) & body's assembly, and rear suspension (with compression springs) & body's assembly.



#### 电动筒式双举升装配型AGV Electric dual-column Lifting AGV

AGV-A2000A (2) -I型AGV为新松公司根据负载的不断增加,尤其后桥装配需要增加减振弹簧压缩防止白车身顶起的拉紧链条而设计双举升AGV产品,主要由AGV车体、两台AJS1000升降机等组成。主要适用于汽车的动力总成、有压缩减振弹簧的后悬挂总成与白车身合装。

AGV-A2000A(2) -I AGV is a kind of dual lift AGV. Based on the loading increasing continuously, the rear axle assembly needs to add damper spring compression, which was designed to avoid car body interference tightening chain. It is mainly consisted of AGV body and two sets AJS1000 lift. It is used for dynamic compliance, and used for compression damper spring rear suspension and car body compliance.



# 装配型 AGV

Assmblly

## 应用案例 Application Cases

### 液压剪式双举升装配型AGV Hydraulic Scissors Dual Lift Assembly AGV

AGV-A2000A(2)-II型AGV是新松公司为了满足用户的特殊要求而研发双举升AGV产品,主要由AGV车体、两台液压升降机等组成。特点是全方位滑动平台上表面到地面高度小,避免侧移进入装配段与吊具干涉。主要适用于底盘线很低动力总成、后悬挂总成与白车身合装。

AGV-A2000A(2)-II AGV is kind of dual lift AGV developed by SIASUN based on customer special requirements. It is mainly consisted of AGV body and two sets of hydraulic lift. It has advantages of lower height from the surface of omnibearing sliding plate to ground, which can avoid clamping interference during assembly. It is used for lower chassis dynamic compliance, and used for rear suspension and car body compliance.



### 电动剪式三举升装配型AGV Electric Scissors Triple Lift AGV

AGV-A2000A(2)-VI型AGV为新松公司根据底盘合装工艺的要求而研发的三举升AGV产品,主要由AGV车体、两台电动剪式升降机、载人提升机等组成。特点是具有更大的承载能力,配置的螺旋提升机具有防坠落保护装置,安全性、可靠性大大提升。主要适用于底盘线很低动力总成、后悬挂总成与白车身合装。

AGV-A2000A(2)-VI AGV is the triple lifts AGV products, which was developed for chassis marriage techniques. It composed of AGV body, two electric lifts, on-board lift etc. It has high load capacity and it is configured with spirallift, which has the anti-drop device. Therefore, it is safe and reliable. This product is mainly used for power assembly, rear suspension assembly and car body marriage under lower VAC line.



### 变速箱装配型AGV Gearbox Assembly AGV

该类型AGV用于各种类型变速箱装配线进行变速箱输送、装配,根据系统装配工艺要求分为平置式变速箱装配型AGV、纵翻式变速箱装配型AGV和横翻式变速箱装配型AGV,新松公司根据不同类型的变速箱结构配置相应的定位夹具可以满足不同类型变速箱的装配要求。由变速箱装配型AGV产品及周边设备构成的AGV系统分别进行变速箱装配、输送,具有分段停止、放行功能的AGV可实现在任何装配工位对变速箱进行静态装配。导航方式采用磁导航,改变导航磁条可以适应生产工艺变更的要求。

This type AGV has been used to all types of gearbox assembly for gearbox transmission and assembly. According to the system installation technical requirements, it can be divided into flat gearbox assembly AGV, vertical overturn gearbox assembly AGV, and horizontal overturn gearbox AGV. SIASUN supplies the related locating tooling based on different gearbox structure, which can satisfy the requirements of various gearboxes. The gearbox assembly AGV and its surrounding equipment compose of AGV system to make gearbox assembly and transportation. This AGV can be stopped and released at stations, which can realize the static assembly at any station. The navigation adopts magnetic navigation. Changing the navigation method can satisfy different technical requirements of the productions.



### 发动机装配型AGV Engine Assembly AGV

发动机装配型AGV是新松公司根据柴油机装配的要求而研发集升降、翻转、盘车于一体的AGV产品,主要由AGV车体、螺杆升降装置、翻转盘车装置等组成。该设备承担柴油机装完缸盖后柴油机整机装配任务。由计算机控制的空中自行葫芦将柴油机送到指定点后,柴油机通过飞轮壳与AGV小车上的法兰盘相连接。然后在固定的环形路线依次经过各个工艺停车点(工位)进行相应工艺内容的装配工作,完成全部预定的工作内容后,再停靠在指定的站点由人工将柴油机吊放到测试输送线上,完成一个工作周期。

The engine assembly AGV is developed in accordance with the requirements for diesel engine assembly, which integrated lifting up and down, turnover, jigger tighter. It is mainly consisting of AGV body, screw lift device, turnover jigger device etc. It is used to the whole diesel engine installation after the cover is installed. The hoist will send the diesel engine to the indicated location, which is controlled by computer. The diesel engine connects with the flange of AGV by bell housing. Then it continues the assembling at each technical stop station in a fixed loop track to complete the preserved work. And then it stops at the indicated station and will be put into the testing transportation line manually, so as to complete one work cycle.



# 叉车型 AGV

## Forklift

### 应用案例 Application Cases

#### 叉车型AGV Forklift AGV

叉车型AGV是新松公司根据不同行业的实际需求而研发的系列激光导航AGV产品,主要由AGV车体、升降装置等组成。该设备承担空托盘、带载托盘、货物等搬运工作。

Forklift AGV is a type of laser navigation AGV which is researched by the different industry requirements. It mainly consists of AGV body, lifting device, etc and can be used for transportation for empty rack, load rack and goods.



宝马现场  
BMW Brilliance Automotive LTD.



天津力生制药现场  
AGVs applied in Tianjin Lisheng Pharmaceutical Co.,Ltd.



应用于大西洋焊丝项目  
AGVs for Atlantic China Welding Consumables, Inc.



天津烟厂现场  
AGVs applied in Shanghai Tobacco Group Co., LTD. Tianjin Factory.

# 重载型 AGV

## Heavy-duty

### 应用案例 Application Cases

#### 重载 AGV Heavy-duty AGV

重载AGV主要应用于仓储、制造、港口、机场、危险场所、特种行业等场所,它的研制成功不但填补了国内重载物料搬运机器人领域的空白,还将有利提高重载领域物流自动化的水平,减轻人的劳动强度,对提供生产效率,缩短物流周期,提高经济效益都具有重要的现实意义。

Heavy-duty AGV can be used in application of storage, manufacturing and sites including harbor, airport, risk area and special industry. Its successful invention not only filled up the gap of domestic heavy materials' robot reducing labor intensity, increasing production efficiency, reducing logistics cycle, and improving economic returns.



武汉大功率现场  
AGVs applied in high power locomotive maintenance Wuhan base



中联重科公司现场  
AGVs applied in Zoomlion Heavy Industry Science & Technology Co.,Ltd.



上海中联  
AGVs applied in Zoomlion Shanghai.



山东骏马项目  
For Junma Group.

# 货架型 AGV

Shelves Sorting

## 应用案例 Application Cases

### 货架型AGV Shelves Sorting AGV

货架型AGV (AGVs) 系统是新松公司为满足大型仓储厂车间的货架调配、分拣、整合而研发的智能应用系统, 主要由AGV车体和视觉导航传感器等组成, 货架分拣AGV可将装满货物或书籍的货架举起并快速平稳的将货架运送到指定的位置, 待操作完成后自动将货架放到指定的地方等待下一次任务。可在控制台的调度下将货架上面的货品进行分类排序, 将同类商品集合到同一货架上, 这样可以减少货物的运送时间, 从而大幅度提高仓储效率。

Shelves Sorting AGV System is an intelligent application system, which is researched and developed to satisfy the rack distribution, selection and integration of the large warehouse or workshop. It mainly consists of AGV body and visual navigation sensor. AMR could lift up the rack with goods or books and deliver it to the designated location rapidly and steadily. After the operation completed, it will deliver the empty rack to the designated location and wait for next task. The traffic controller could classify the goods on the rack and keep them in sequence, so as to gather the same kind of goods to one rack. In this way, the goods delivery time can be reduced and the warehouse efficiency can be improved greatly.



晟碟现场

AGVs applied in Sandisk Semiconductor (Shanghai) Co., Ltd.

# 复合型 机器人

Compound type

沈阳新松机器人自动化股份有限公司研发的一款新型AGV带机械手臂复合型机器人。主要用于将物料按要求输送到指定工位, 通过机械手放置到特定区域, 实现柔性化输送、高精度定位、自动化加工、智能化管理。机器人由车体和车载机械手两部分构成, 通过将AGV与机械手相关技术的糅合, 实现了机器人“手脚并用”的工业应用, 填补了国内技术空白, 为“智能制造”增添了新的光辉一页。

Shenyang Siasun Robot Automation Co., Ltd has researched and developed a kind of AGV with complex mechanical arm robot. It is mainly used to transport the material to the designated location and the mechanical arm will place it in a particular area. Realize the flexible transmission, high precision positioning, automatic production and intelligent management. AGV is composed with vehicle and on-board mechanical arm. The combination of AGV and mechanical arm has realized the robot industrial application of “hands and feet” which has filled the blank of domestic technology and added a new glorious page of the “intelligent manufacture”.

#### 产品功能创新:

使用AGV输送物料, 利用车载机械手将物料放置指定工序、工位。  
Use AGV to transport material then place it in the particular process and position with the on-board mechanical arm.

#### 产品技术创新:

- 1、国内首台复合型机器人;  
First compound machine in domestic;
- 2、机器人可任意进行移动作业;  
Robots can mobile operate flexibly;
- 3、视觉补偿技术的应用, 实现三维坐标系上的位置补偿;  
Visual compensation technology applications, realize the position compensation on three-dimensional coordinate system;
- 4、机器人供电技术应用的突破;  
Breakthrough of the robot power supply technology;
- 5、整合机器人与AGV通讯及控制技术;  
Communication and control technology integration of the Robot and AGV;
- 6、夹具快速切换技术应用;  
Fixture rapid exchanging applications
- 7、不同复合型AGV进行互换后应用技术;  
Compatibility technology of different compound AGVs;
- 8、安全防护技术的创新;  
Security protection technology innovation





# 非接触供电 AGV

## Inductive Power Transfer

### 应用案例 Application Cases

#### 非接触供电AGV Inductive Power Transfer AGV

为满足当今社会日益增长的环保要求,新松公司结合世界领先的非接触供电技术,为各行业提供非接触供电AGV,这种供电系统可以在AGV不带电池的情况下为小车提供驱动电源盒控制电源,也可以在不设充电站的情况下为AGV的电池进行连续或定时充电。

This power system can provide drive power and control power when AGV does not carry the batteries. And it can also charge AGV batteries continuously or timely when there is no charging station.



爱科(常州)农业机械有限公司现场  
Inductive Power Transfer AGVs applied in AGCO(Changzhou)



爱科(常州)农业机械有限公司现场  
Inductive Power Transfer AGVs applied in AGCO(Changzhou)



通用现场  
Inductive Power Transfer AGVs applied in GM



金杯汽车现场  
AGVs applied in Shenyng Brilliance Jinbei Automobile Co.,Ltd.

**KOLLMORGEN** 美国科尔摩根

Because Motion Matters™

**SEW EURODRIVE** 德国 SEW 公司

**SICK** 德国 SICK 公司

**wampfler** 德国 Wampfler 公司  
solutions for a moving world

**VAHLE** 德国 VAHLE 公司  
ELECTRIFICATION SYSTEMS

近年来,新松公司在不断加大自主创新力度同时,积极与国际知名企业合作。新松公司立志创造国际品牌,在产品、技术及管理等各方面积极与国际接轨,走国际化的发展道路。新松先后与国际上知名KOLLMORGEN公司、SEW公司、sick公司、Wampfler等开展互相学习与培训,并在国内多个AGV应用领域展开合作。通过与国外伙伴的合作和本着科技需要精益求精的产品研发观点,新松的技术实力不断提升,不断推出更贴合客户需求的高质量产品。

Recent years, SIASUN continue to increase the intensity of independent innovation and at the same time, actively cooperate with the international well-known enterprises. SIASUN is striving to create international brand product and take the international development road by conforming international standard in terms of product, technology, management, etc. SIASUN has cooperated with many international well-known companies such as KOLLMORGEN, SEW, sick and Wampfler by mutual learning and training as well as many domestic AGV application field. With foreign partner's cooperation and the spirit of science and technology need to refine, SIASUN technology keeps improving and continues to produce high quality products catering to customers' needs.

### 合作伙伴 Partner

新松AGV导航方式支持电磁导航、磁带导航、激光导航等多种导航方式,供电方式分为电池供电及感应供电。至今,新松已在国内外提供了800多台AGV应用系统,拥有许多经典成功案例,尤其是国内外汽车总装生产线上使用的装配型AGV,处于行业领先地位。

SIASUN AGV navigation supports electromagnetic navigation, magnetic tape navigation, laser navigation and other navigation mode, and the power supply contains battery powered and induction power supply. Up to now, SIASUN has provided more than 800 sets of AGV system at home and abroad and has many classic successful cases particularly the assembly type AGV used for automobile assembly production line in domestic and abroad, which is in the leading position in the industry.



# 出口项目

## Export Projects

新松AGV有功能稳定、运行可靠、性价比高等多种优势,在全球两大汽车厂商通用和福特海外生产基地都应用新松AGV产品,特别是2007年,新松一举拿下通用汽车公司全球多个新建厂项目的底盘合装工程,成功出口到通用汽车全球各地工厂。至2016年7月,新松出口总量达到177台,成功地在国际机器人市场占有一席之地。

SIASUN's AGV systems have plenty of advantages such as stable functionality, reliable operation, higher cost performance. Our AGV products have been widely applied in many oversea production bases of the two global famous automobile manufacturer General Motors and Ford. Especially, in 2007, SIASUN has won several chassis decking projects of General Motors' greenfield programs, which made SIASUN successfully export AGV systems to the GM factories all over the world. Till July 2016, SIASUN has exported 177 AGVs totally and gained good reputation in international robot market successfully.



应用于通用汽车俄罗斯工厂  
General Motors Russia



应用于通用汽车加拿大工厂  
General Motors Canada



应用于美国通用汽车公司底特律厂  
General Motors U.S. (Detroit)



应用于福特汽车印度工厂  
Ford India Pvt Ltd



应用于通用汽车墨西哥工厂  
General Motors Mexico



应用于通用汽车乌兹别克斯坦工厂  
General Motors Uzbekistan

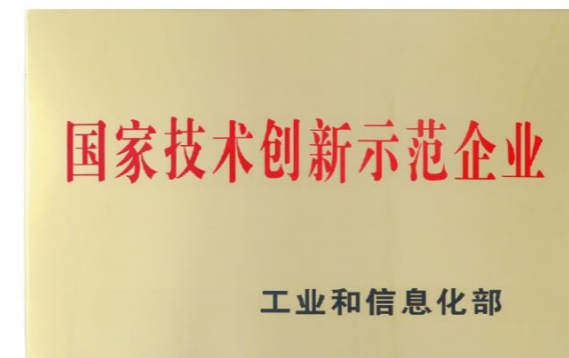
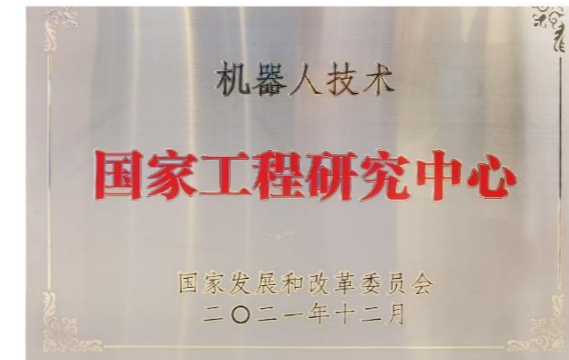
## 部分国外应用案例 Some applications of oversea projects.

客户名称 Customer List	投产日期 Production Date	客户名称 Customer List	投产日期 Production Date
美国通用全球采购部(墨西哥) General Motors De Mexico	2007	印度福特 Ford India Pvt Ltd.	2010
美国通用全球采购部(印度) General Motors India	2007	印度通用 General Motors India	2010
美国通用全球采购部(加拿大) General Motors of Canada	2007	通用乌兹别克斯坦 General Motors Uzbekistan	2011
美国通用全球采购部(俄罗斯) General Motors Russia	2007	通用墨西哥二期 General Motors De Mexico	2011
韩国AGV Korea Samsung Aviation Co.,Ltd.	2008	通用底特律二期AGV General Motors U.S.(Detroit)	2011
美国通用 General Motors U.S.	2008	印度通用 Halol General Motors India(Halol)	2012
韩国通用汽车公司 General Motors Korea Company	2008	通用墨西哥A General Motors De Mexico	2014
印度福特AGV合装系统 Ford India Pvt Ltd.	2008	韩国通用AGV加车 General Motors Korea Company	2014
美国通用 General Motors U.S.(Detroit)	2009	通用乌兹别克斯坦AGV加车 General Motors Uzbekistan	2014
加拿大GM General Motors of Canada	2010	.....	

# INDUSTRY POSITION 行业地位

机器人国家工程研究中心  
 国家八六三计划智能机器人主题产业化基地  
 中国机器人标准化总体组组长单位  
 中国机器人产业联盟理事长单位  
 中国移动机器人 (AGV/AMR) 产业联盟理事长单位  
 国家技术标准创新基地(机器人) 牵头单位  
 国家91家创新型企业  
 中国科学院机器人与智能制造创新联盟理事长单位  
 中国机器人产业技术创新战略联盟理事长单位  
 中国机器人协会(筹) 会长单位

National Robotic Engineering Research Center  
 National '863' Program Intellectual Robot Industrialization Base  
 Leader of National Robot Standardized Group  
 President unit of CRIA  
 China Mobile Robot and AGV/AMR Industry Alliance President Unit  
 National Technical Standards Innovation Base of Robot Leading Unit  
 91 Innovation Enterprise  
 President unit of TIIR  
 President unit of TISAR  
 China Robot Association(preparatory) President Unit



## 我们的服务 Our Service

为保证产品质量,新松将严格按ISO9001:2000质量体系运行。  
SIASUN will operate strictly according to ISO9001:2000 Standard, in order to guarantee product quality.

新松配备专业的安装队伍和售后服务队伍,负责AGV安装、调试和售后服务,服务热线:  
024-31699955。  
SIASUN has professional installing team and after-sale service team, responsible for AGV installation, debugging and after-sale service.  
Our service hot line is 024-31699955.

新松AGV质保期为壹年,终身维护,因我方设计、制造、运输、安装所出现的质量问题,新松负责免费维护。任何原因发生任何故障,新松接到有效通知后2小时内作出电话响应,并提出解决方案或派人上门服务,但因用户原因造成的故障维修,新松只收取成本费用。  
The Quality Guarantee Period of SIASUN AGV is one year, with lifelong maintenance service. SIASUN will be responsible for free maintenance, if any quality problem occurs, due to our design, manufacture, delivery, and installation. SIASUN will be responsive over the phone within two hours after receiving valid notice, whatever the problems and the causes are, and will bring forward solutions or send out door-to-door service, during which prime cost will be charged by SIASUN, if the problems are caused by inappropriate use.

在沈阳,新松AGV设有备件库,为全方位提供技术支持。为方便用户更好地使用该系统,每个AGV工程安装,新松将免费负责对管理和使用操作人员进行技术培训。  
SIASUN AGV is equipped with a Spare Parts Storage, which can provide a full-scale technical support. In order for users to better utilize this system, SIASUN will be responsible for providing managing and operating personnel with free technical training.

为保证售后服务响应及时,新松公司已在重庆、潍坊、芜湖设立三个专门的AGV售后服务公司,为保证就近服务且及时有效,请与新松本部售后服务部门确认后联系。  
SIASUN has set up four expert AGV after-sale service companies in Chongqing, Weifang and Wuhu for timely responsive after-sale service. Please make contact with Shenyang headquarters after-sale service department for confirmation before approaching these companies, so as to ensure timely and valid near-site service.



## 逾百家尊贵客户

### 汽车底盘合装行业

沈阳华晨金杯汽车有限公司  
柳州微型汽车厂  
重庆长安汽车股份有限公司  
海南汽车投资有限公司  
上汽集团奇瑞汽车有限公司  
沈阳中顺汽车有限公司  
湖南长丰汽车有限公司  
上汽五菱汽车股份有限公司  
一汽轿车股份有限公司  
沈阳通用汽车制造有限公司  
长安福特汽车有限公司  
潍柴动力股份有限公司  
上海通用汽车有限公司  
保定长城汽车股份有限公司  
上汽通用五菱汽车股份有限公司  
上海汽车集团股份有限公司  
浙江陆虎汽车有限公司  
上海华普国润汽车有限公司  
长安福特马自达汽车有限公司  
浙江金钢汽车有限公司  
承德威伯输送机械有限公司  
泰安青年汽车有限公司  
南汽名爵汽车有限公司  
海马(郑州)汽车有限公司  
华泰汽车车身(鄂尔多斯)有限公司  
杭州青年莲花汽车有限公司  
天津夏利一汽有限公司  
吉利汽车慈溪工厂  
东风风神汽车有限公司  
北汽福田汽车股份有限公司  
奇瑞汽车有限公司大连工厂  
一汽海马汽车有限公司  
上海华普国润汽车有限公司  
山西长治汽车零部件公司  
重庆力帆乘用车有限公司  
承德天宝机械股份有限公司  
沈阳华晨金杯汽车有限公司  
合肥昌河汽车有限责任公司  
天津一汽夏利汽车股份有限公司  
风神襄阳汽车有限公司  
安徽江淮汽车股份有限公司  
海宁莲花乘用车有限公司  
奇瑞量子汽车有限公司(中美合资)  
湖南吉利汽车部件有限公司  
江铃汽车股份有限公司  
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### 汽车零部件装配行业

西安法士特汽车传动集团公司  
潍柴动力股份有限公司  
中国重汽集团大同齿轮有限公司  
东风变速箱有限公司  
长春一汽变速箱有限公司  
东风汽车有限公司  
宝鸡法士特齿轮有限责任公司  
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### 烟草行业

上海卷烟厂  
重庆富安工厂自动化有限公司  
吉林烟草工业有限责任公司  
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### 电力行业

西安西开高压电气股份有限公司  
华北电网公司北京电力公司  
重庆电力科学试验研究院  
泰安供电公司  
聊城供电公司  
西安供电局电能计量中心  
呼和浩特供电局  
天津市电力公司电能计量中心  
郑州三晖电气股份有限公司  
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### 医药、食品行业

山东福瑞达药业  
天津天士力制药股份有限公司  
内蒙古蒙牛高科乳业有限公司  
.....

### 机车高铁行业

广州铁路广州动车段检修基地  
唐山百川智能机器有限公司  
哈尔滨大功率机车检修基地  
武汉铁路大功率机车检修基地  
天津铁路大功率基地  
上海铁路大功率机车检修基地  
.....

### 石油化工行业、勘探行业

昆明贵研催化剂有限责任公司  
珠海醋酸纤维有限公司  
昆明醋酸纤维有限公司  
广州艺爱纤维有限公司  
广州雅芳制造有限公司  
上海家化联合股份有限公司  
大庆石油勘探研究院  
.....

### 教育培训行业

西安理工大学  
上海富安工厂自动化有限公司  
武汉理工大学物流工程学院  
浙江经济职业技术学院  
.....

### 造纸、出版印刷行业

辽宁北方出版物配送有限公司  
上海名毅机械有限公司  
北京中山浩业机械有限责任公司  
山东太阳纸业股份有限公司  
.....

### 柴油机测试车间输送行业

广西玉林柴油机集团  
大连上柴股份有限公司  
潍柴动力股份有限公司  
安徽天利动力股份有限公司  
中国重汽济南动力股份有限公司  
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### 其他行业

中航工业江西洪都航空工业股份有限公司  
中国电子科技集团公司第十四研究所  
沈阳棋盘山国际象棋城  
太原东杰装备有限公司  
郑州三晖电气股份有限公司  
安徽美芝精密制造有限公司  
太原东杰装备有限公司  
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