

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.



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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的动力总成、后悬挂总成与白车身合装。

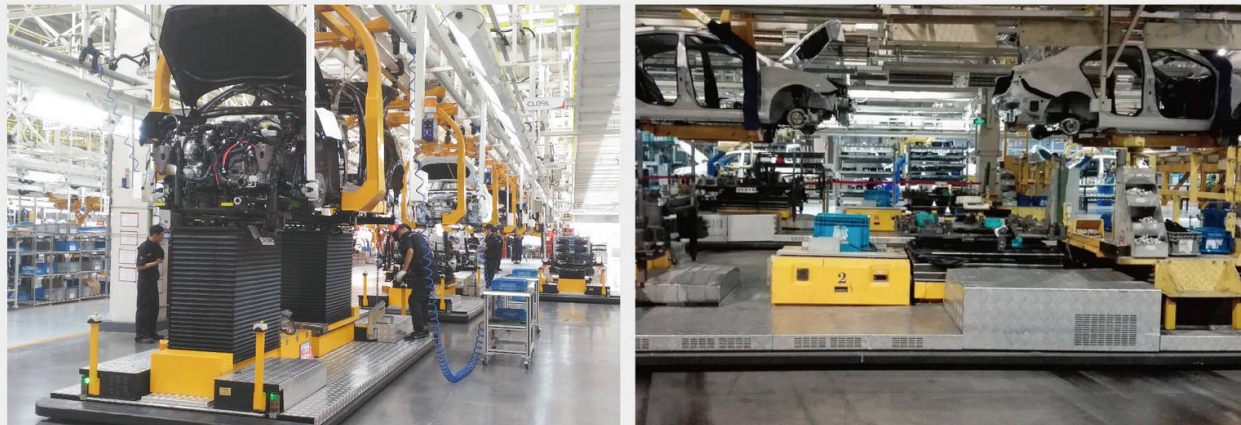
AGV-A2000A(2) -II AGV is kind of dual lift AGV developed by SIASUN based on customer special requirements. It is mainly consisted of AGV body and two sets of hydraulic lift. It has advantages of lower height from the surface of omnibearing sliding plate to ground, which can avoid clamping interference 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的动力总成、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 spiralift, which has the anti-dropdevice. 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、丝杆升降装置、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，再停靠到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

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 indivated 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 an will be put into the testing transportation line manually, so as to complete one work cycle.

