

# 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最新研发的一款新型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完美糅合，真正实现了机器人“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 new 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 perfect combination of AGV and mechanical arm has real 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

