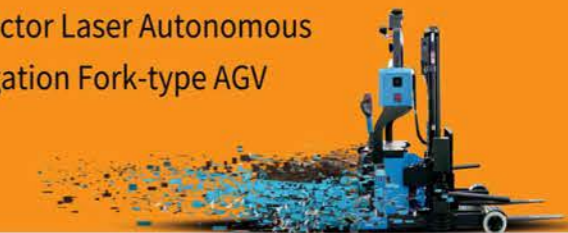




AGV艾吉威 就是无人仓运

无反光板激光自主导航叉车AGV

Non-reflector Laser Autonomous
Navigation Fork-type AGV



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艾吉威官方公众号平台

苏州艾吉威机器人有限公司
Suzhou AGV ROBOT Co.,Ltd



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苏州艾吉威机器人有限公司
Suzhou AGV ROBOT Co.,Ltd

We are AGV,Focus on Superior Quality /全球热线 (Hotline):400-808-1418



目录 Content

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PART 2	关于我们
PART 3	我们的服务
PART 4	产品+项目

企业文化



艾吉威精神
ENTERPRISE SPIRIT

特别能吃苦 敢想敢为 特别能战斗 无私无畏
特别能攻关 尽心尽力 特别能奉献 尽善尽美
Daring to think and do with extreme hardwork
Fighting to succeed with selflessness and fearlessness
Striving to make breakthroughs with dedication
Pursuing to be perfect with devotion

Core values

Customer-centric
Oriented for strivers
Hard struggle forever

核心价值观

以顾客为中心
以奋斗者为本
长期坚持艰苦奋斗

企业愿景

成为中国AGV
行业的引领者

Our visions

To be a leader in
China's AGV industry



艾吉威寄语

Message

基于领先的智能移动机器人无反叉车AGV技术，为客户提供一站式室内外智慧工厂物流解决方案。

Based on the advanced AGV technology, we provide customers with one-stop indoor and outdoor smart factory logistics solutions.



公司简介

Company Introduction

苏州艾吉威机器人有限公司，坐落在苏州工业园区，成立于2011年12月，是一家以独创移动搬运机器人AGV技术为核心的厂内智能物流方案规划及实施的高新技术企业和软件企业。

Suzhou AGV Robot Co. Ltd., located in Suzhou Industrial Park, founded in December 2011, is a high-tech and software enterprise focusing on intelligent logistics solutions planning and implementation based on AGV technology.

公司自主研发的搬运机器人AGV产品线包括拥有美国发明专利和国家发明专利的无反光板激光AGV系列和智能工厂内信息化物流软件WMS、WCS、RFID等的一体化解决方案。

The company's independent R&D AGV product lines include non-reflector laser fork-type AGV series owning both American and national invention patents and intelligent logistics software WMS, WCS, RFID, etc.

艾吉威作为行业创新的开拓者，技术领先且高速发展，是中国最早完全自主研发无标识导航叉车AGV且实现大规模集群应用的企业，技术处于行业顶尖之列，产品畅销国内外。

AGV Robot is the first company in China that developed no-marks navigation fork-type AGV based on independent R&D and got a large amount of applications.



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艾吉威荣誉/Honors

国家级：

国家高新技术企业/National High-tech Enterprise

软件企业（双软资质）/Software Enterprise

省级：

2017年江苏省机械专利金奖，苏州唯一一家获得

2018年江苏省科技进步一等奖

2019年中国机械工业科学技术奖三等奖

The only enterprise in SIP won the gold medal of the machinery patent of Jiangsu Province in 2017

First prize of scientific and technological progress in Jiangsu province in 2008

Third prize of China machinery industry science and technology award in 2019

市级：

科技领军企业

2015年，获批“苏州市智能搬运机器人创新基地

2016年，苏州科技局&艾吉威工程试验中心

2019年苏南国家自主创新示范区瞪羚企业

Science and Technology Leading Enterprise.

AGV Robot got “Innovation base of intelligent handling robot in Suzhou” in 2015.

AGV Robot got “non-reflector laser navigation technology development and experiment center” in 2016.

2019 Gazelle enterprise of Sunan National Innovation Park

行业：

2017年度机器人技术先锋企业奖/Robotics Pioneer Award

2018年度技术创新奖 恰佩克奖/The Capek Prize

2019年度十佳客户信赖品牌/Top 10 Customer trust brands

2020年中国叉车AGV企业竞争力排行第二名/Top 2 of China's 2020 forklift type AGV enterprise Ranking

欧盟CE安全认证，产品符合欧盟《技术协调与标准化新方法》指令的基本要求

Certified with EU CE. The product meets the requirements in directives of EU

Harmonized Standards.



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自主知识产权及专利

Intellectual Property Rights and Patents

在审及获得授权的AGV相关专利技术130项

More than 130 AGV related patents

国家发明专利28项

28 national invention patents

无反光板激光自主导航叉车AGV获得中国国家发明专利授权、美国发明专利授权和2017年江苏省机械工业专利金奖。

The non-reflector laser navigation fork-type AGV technology had obtained the authorization of the China and American invention patent.



智能AGV-技术优势

Technical Advantage -AGV (Intelligent Handling Robot)

1. 不需要铺设任何导航标识（反光板、二维码、磁条），柔性搬运，节省投入成本。

No marks need to be laid and is flexible and cost saving

2. 自建全局导航地图，相当于室内GPS站，可导航到厂内任何地方，不受导航标识限制，可在全厂搬运。

Can build global navigation map equivalent to an indoor GPS station, can navigate anywhere in the factory

3. 学习环境，建图时间短，简单环境15分钟内建好，施工快，项目周期缩短。

Has learning ability and can build a simple map within 15 minutes shorting construction time

4. 后期因工序或物料变动要调整AGV路径方便，只需调整地图，后期调整维护简单，快速。

It is convenient to adjust the AGV path when customer wants to change the production process.

智能搬运系统（控制软件）-技术优势

Technical advantages - intelligent handling system (Control software)

1. 艾吉威AGV系统可同时调度控制上百台AGV，目前已有多个50+台AGV系统控制案例

AGV Robot's AGVS can control 100 AGVs at the same time and has many applications of scheduling and controlling a large number of AGVs.

2. 采用智能交通管制算法，节省交通管制等待时间，提升AGV集群运作效率

The traffic control algorithm has the defects of long waiting time and low efficiency.

3. 兼容多种导航方式，可与WMS、MES、ERP、RFID等系统无缝连接

Compatible with a variety of navigation methods, and can be connected seamlessly with WMS, MES, ERP, RFID and other systems.

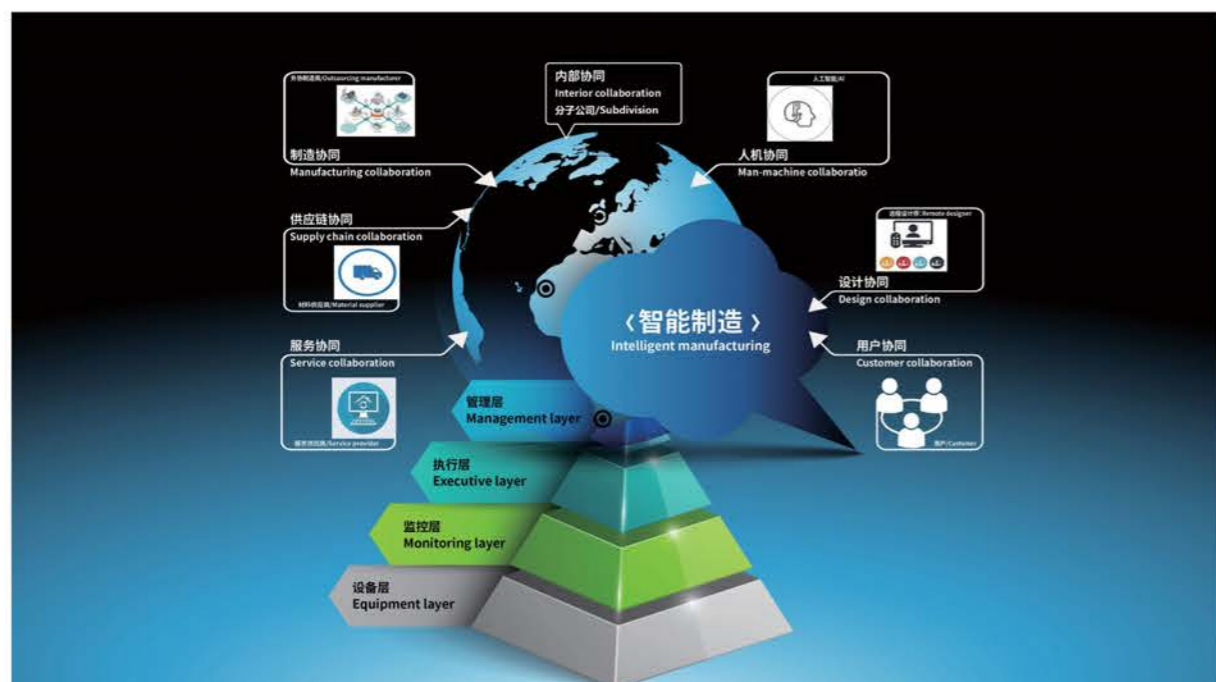
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我们的服务/ Our services



基于领先的智能移动机器人无反激光AGV技术，为客户提供一站式室内外智慧工厂物流解决方案。
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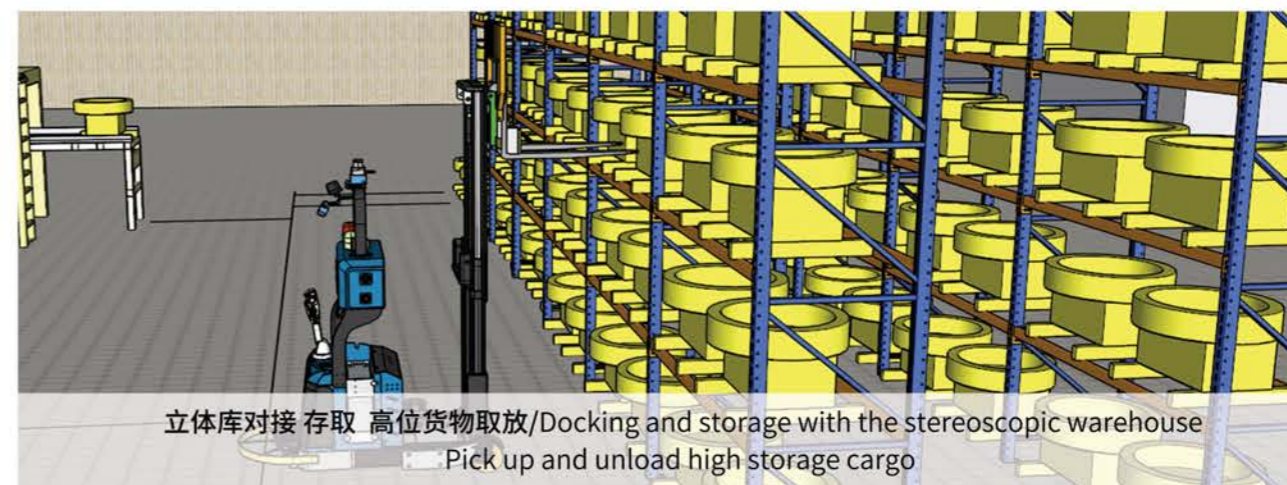
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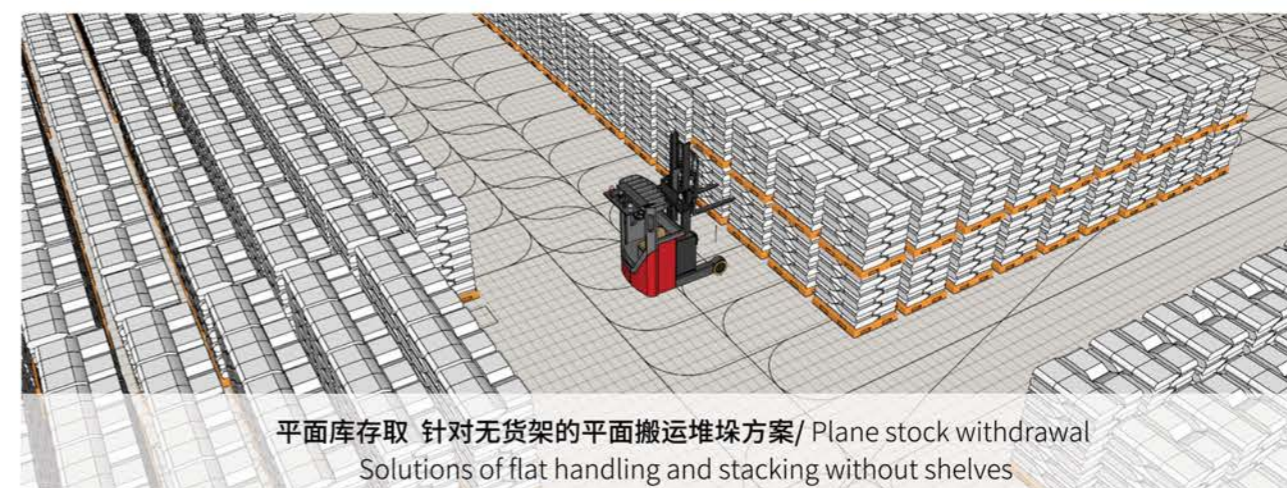
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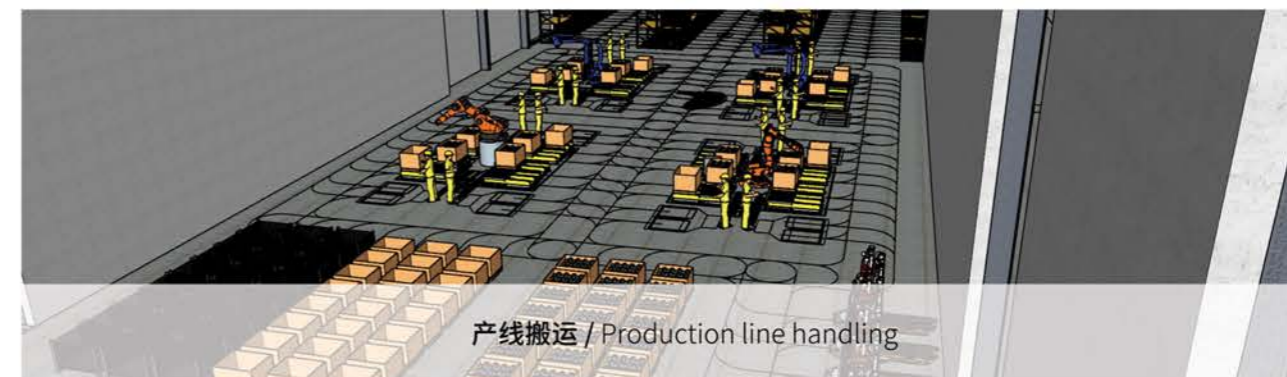
原料入库/ Put raw material in storage



立体库对接 存取 高位货物取放/Docking and storage with the stereoscopic warehouse
Pick up and unload high storage cargo



平面库存取 针对无货架的平面搬运堆放方案/ Plane stock withdrawal
Solutions of flat handling and stacking without shelves



产线搬运 / Production line handling

灵活部署 柔性搬运
Flexible deployment and handling

不需要铺设任何导航标识/No marks need to be laid
自建全局导航地图 可在全厂搬运/Build overall navigation map and navigate anywhere in the factory
建图时间短 项目周期缩短/Mapping in a short time and project cycle shortened
生产工艺变化 只需调整地图路线/It is convenient to adjust the AGV path when the production process changes

高安全性
high-level safety

连续工作 作业效率不降低/Efficiency does not decrease under continuous work
减少人为安全隐患/Reduce artificial safety hazards
360°安全避障/360° safe obstacle avoidance
系统容错性高 持续作业无事故/The system has high fault tolerance and no accident during continuous operation

节省成本 提升效率
Cost Saving and efficiency improving

节省直接人力成本50%-70%/Save 50%-70% of direct labor cost
降低人员隐形管理成本/Reduce personnel stealth management costs
无反激光导航+视觉识别, 作业准确率高/Non-reflector laser navigation + visual recognition, high job accuracy
弱光工作 降低能耗及支出 小于3年投资回收期/Low light work reduces energy consumption and expenditure The ROI will be less than 3 years

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7×24小时服务/7×24 hours service

全年365天、全天24小时的支持, 快速响应记录和跟踪服务请求, 高效、正确、安全处理。
远程技术支持, 远程快速识别故障并提供解决方法, 保障客户正常有序生产。
系统维护与升级, 提供常规系统维护与升级, 降低系统出错率, 提高管理效能。
We provide 365 days a year and 24 hours a day support to all customers, and rapidly response to record and track service requests and solve efficiently, correctly and safely.
We provide remote technical support, remote quick fault identification and solutions to ensure the normal and orderly production of customers.



客户现场服务/On-site customer service

现场维修/On-site maintenance
AGV和AGV配套设备(电梯门、自动门、充电站等) 现场维修, 快速解决问题, 保障客户生产。
驻厂服务 车体保养
We provide on-site maintenance of AGV and AGV supporting equipment (elevator doors, automatic doors, charging stations, etc.) to quickly solve problems and ensure customer production.
On-site service
AGV maintenance



客户培训/Customer training

AGV车体操作 系统操作 电池维护 AGV车体保养
AGV operating /System Operating /Battery maintenance /AGV maintenance



配件服务/Spare parts service

提供常用AGV车体配件 易损件 快速发货 快速更换
Provide AGV spare parts and vulnerable parts Quick delivery and quick replacement





无反光板激光自主导航叉车AGV/ Non-reflector Laser Navigation Fork-type AGV

无反光板激光自主导航叉车AGV无需安装反光板即可实现激光导航叉车AGV的定位，可以在15分钟内建好一张地图，类似于建立了一个室内的GPS站，可以定位到任何地方，解放了叉车AGV的应用环境。

Non-reflector laser navigation fork-type AGV can navigate without reflectors. It can build a navigation map in 15 minutes. The navigation map is similar to an indoor GPS and AGV can go to anywhere in the factory.

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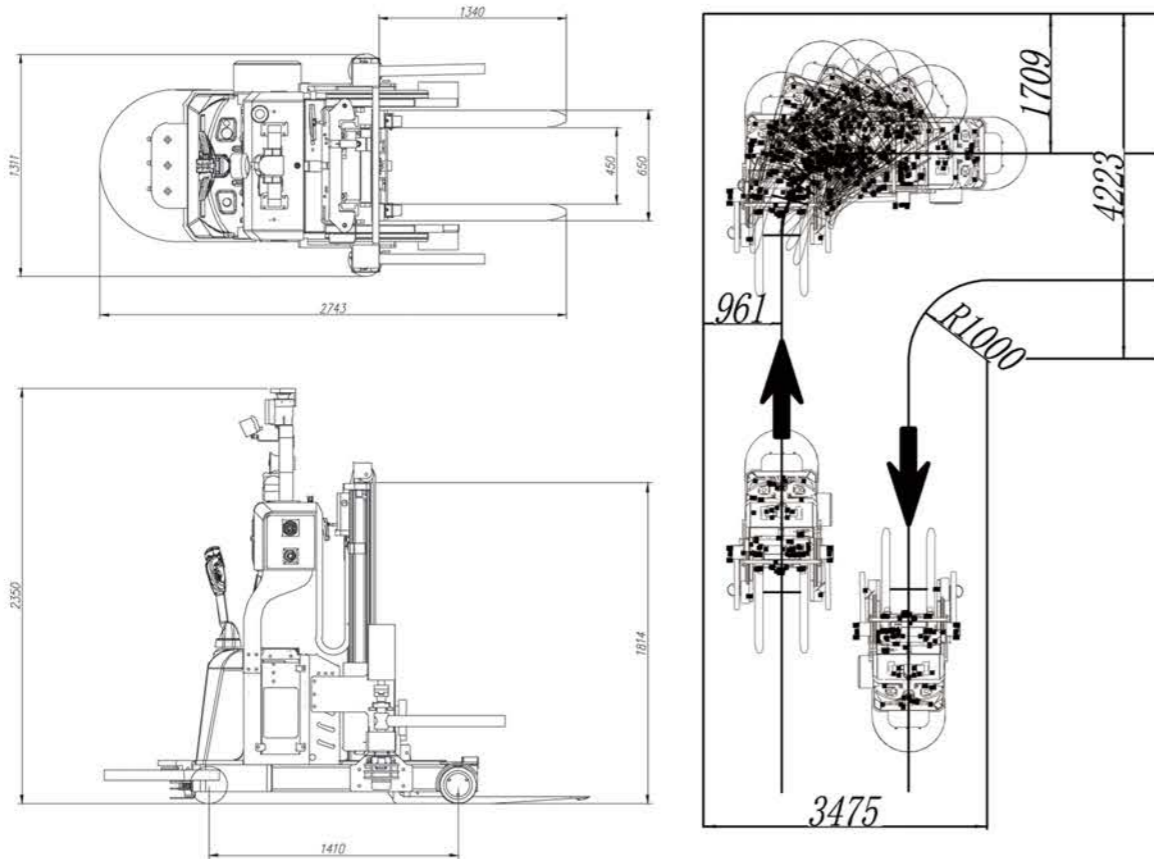


平衡重前移型叉车AGV/Counterbalanced Reach Fork-type AGV

型号 Model: AGVL-LFF151R-LSSBA

前移式叉车AGV, 配置可折叠站板及护臂, 可以在狭窄的通道内灵活地进行存取作业, 用于仓储和生产线上的物料自动搬运堆垛。

The counterbalanced reach fork-type AGV, equipped with foldable platform plate and arm guard, can be flexibly accessed and stored in narrow passageways, and is used for automatic material handling and stacking in warehouses and production lines.



产品参数/Product parameters



特性 Feature	单位	
型号 Model		AGVL-LFF151R-LSSBA
类型 Type		平衡重前移型
底盘款式 Chassis Style		单舵轮 Steering wheel
门架类型 Mast Type		二级 Level2
额定载重 Load Capacity	kg	1500
载荷中心距 Load Center	mm	500
轴距 Wheel Base	mm	1310
制动方式 Braking Mode		电动 Electric /机械 Mechanical
车轮Wheel		
车轮材质(驱动轮/辅助轮/承重轮) Wheel Material (Driving/ Balance /Bearing)		PU
车轮数量(驱动轮/辅助轮/承重轮) Wheel Quantity (Driving/ Balance /Bearing)	pcs	1/2/2
尺寸Size		
门架作业时整车最大高度 Max Exteng Height	mm	4000
门架缩回时整车静态高度 Mast Lowered Height	mm	2350
标准货叉规格(长/宽/厚) Fork Size(L/W/H)	mm	1070/100/40
整车全长, 带弹簧钢带机械防撞 Overall Length	mm	2744
车体宽度 Overall Width	mm	1270
最小运动中心转弯半径 Min Turning Radius	mm	700
"最小直角堆垛通道宽度(单通道一边放货)Min Aisle Width for Pallet	mm	3800
性能 Performance		
动力方式 Engine Mode		蓄电池 Battery
最大行驶速度, 满载/空载 Travel Speed,Laden/Unladen	m/min	78
最大起升速度, 满载/空载 Lift Speed,Laden/Unladen	mm/s	110/160
最大下降速度, 满载/空载 Lowering Speed,Laden/Unladen	mm/s	170/150
最大爬坡度, 满载/空载 Grade ability,Laden/Unladen	%	6/7
电气配置Electrical Equipment		
充电方式 Charge Mode		手动充电 Manual Charge/自动充电 Auto Charge
电池类型 Battery Type		铅酸 Pb-acid/磷酸铁锂
蓄电池电压 Battery Voltage	V	24
蓄电池容量 Battery Capacity	Ah	270/180
充电时间 Charge Time	H	8/1
导航定位装置 AGPS Sensor		激光 SICK Lasor
控制器 Controller		倍福 BECKHOFF
区域检测 Area Detection		SICK TIM320
重量 Weight		
蓄电池重量 (铅酸/磷酸铁锂) Battery Weight	kg	245/120
自重 (包含蓄电池) Dead weight (Including Battery)	kg	1880/1800
质保 Warranty		
保修时间 Warranty	Y	1
AGVS系统部件 AGV System Parts		
AGVS	set	AGVS-V1.9.6
WCS	set	AGVM-V2.0
WMS	set	AGVM-V1.3.1
自动充电桩 Automatic Charging Point	set	AGVC-YT220V1
呼叫盒 Call Box	pc	AGVB-CB-V3.0
平板电脑 Tablet PC	pc	AGVP-HWCW9.6
电梯控制柜 Elevator Control Cabinet	pc	AGVE-V1.0.0
卷帘门控制柜 Shutter Door Control Cabinet	pc	AGVD-V1.0.0

CORPORATE IMAGE



Web Site:

<http://www.agvsz.com>



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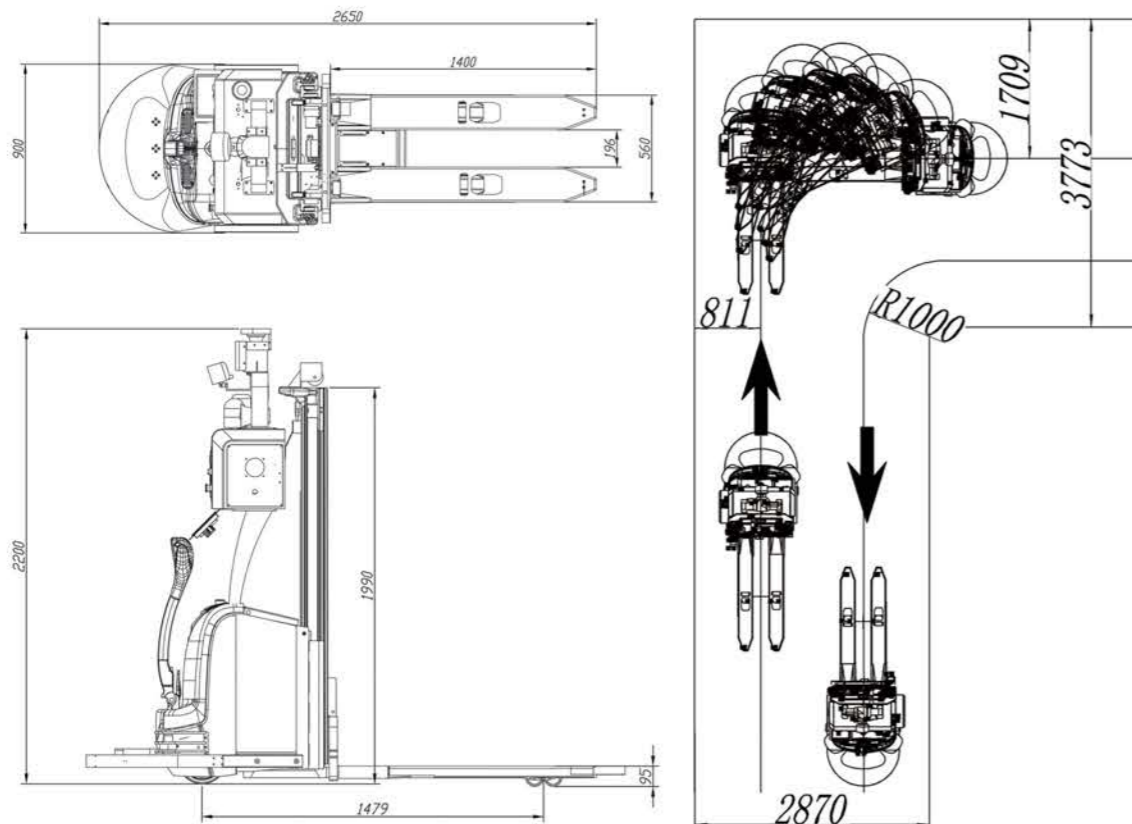


堆垛叉车AGV/Stacking fork-type AGV

型号 Model: AGVL-KSF161B-SSMBA

堆垛叉车AGV,可在不同高度的平台上搬运堆垛,适用于单面、川字托盘及类式物料,用于仓储和生产线上的物料自动搬运堆垛

Stacking fork-type AGV can carry pallet on different heights of platform. It is suitable for single side pallet and similar carriers. It is used for materials handling in storage area and production lines.



产品参数/Product parameters



特性 Feature	
型号 Model	AGVL-KSF161B-SSMBA
类型 Type	托盘堆垛型
底盘款式 Chassis Style	单舵轮 Steering wheel
门架类型 Mast Type	二级 Level2
额定载重 Load Capacity	kg 1600
载荷中心距 Load Center	mm 600
轴距 Wheel Base	mm 1304
制动方式 Braking Mode	电动 Electric /机械 Mechanical
车轮Wheel	
车轮材质(驱动轮/辅助轮/承重轮) Wheel Material (Driving/ Balance /Bearing)	PU(驱动轮可选橡胶轮)
车轮数量(驱动轮/辅助轮/承重轮) Wheel Quantity (Driving/ Balance /Bearing)	pcs 1/1/4
尺寸Size	
门架作业时整车最大高度 Max Exteng Height	mm 3380
门架缩回时整车静态高度 Mast Lowered Height	mm 2250
标准货叉规格(长/宽/厚) Fork Size(L/W/H)	mm 1150/180/71
整车全长,带弹簧钢带机械防撞 Overall Length	mm 2683
车体宽度 Overall Width	mm 988
最小运动中心转弯半径 Min Turning Radius	mm 700
"最小直角堆垛通道宽度(单通道一边放货)Min Aisle Width for Pallet	mm 3700

性能 Performance	
动力方式 Engine Mode	蓄电池 Battery
最大行驶速度,满载/空载 Travel Speed,Laden/Unladen	m/min 78
最大起升速度,满载/空载 Lift Speed,Laden/Unladen	mm/s 140/220
最大下降速度,满载/空载 Lowering Speed,Laden/Unladen	mm/s 400/350
最大爬坡度,满载/空载 Grade ability,Laden/Unladen	% 5/7

电气配置Electrical Equipment	
充电方式 Charge Mode	手动充电Manual Charge/自动充电 Auto Charge
电池类型 Battery Type	铅酸Pb-acid/磷酸铁锂
蓄电池电压 Battery Voltage	V 24
蓄电池容量 Battery Capacity	Ah 270/180
充电时间 Charge Time	H 8/1
导航定位装置 AGPS Sensor	激光 SICK Lasor
控制器 Controller	倍福 BECKHOFF
区域检测 Area Detection	SICK TIM320

重量 Weight	
蓄电池重量(铅酸/磷酸铁锂) Battery Weight	kg 245/120
自重(包含蓄电池) Dead weight (Including Battery)	kg 1350/1185

质保 Warranty	
保修时间 Warranty	Y 1

AGVS系统部件 AGV System Parts	
AGVS	set AGVS-V1.9.6
WCS	set AGW-V2.0
WMS	set AGVM-V1.3.1
自动充电桩 Automatic Charging Point	set AGVC-YT220V1
呼叫盒 Call Box	pc AGVB-CB-V3.0
平板电脑 Tablet PC	pc AGVP-HWCW9.6
电梯控制柜 Elevator Control Cabinet	pc AGVE-V1.0.0
卷帘门控制柜 Shutter Door Control Cabinet	pc AGVD-V1.0.0

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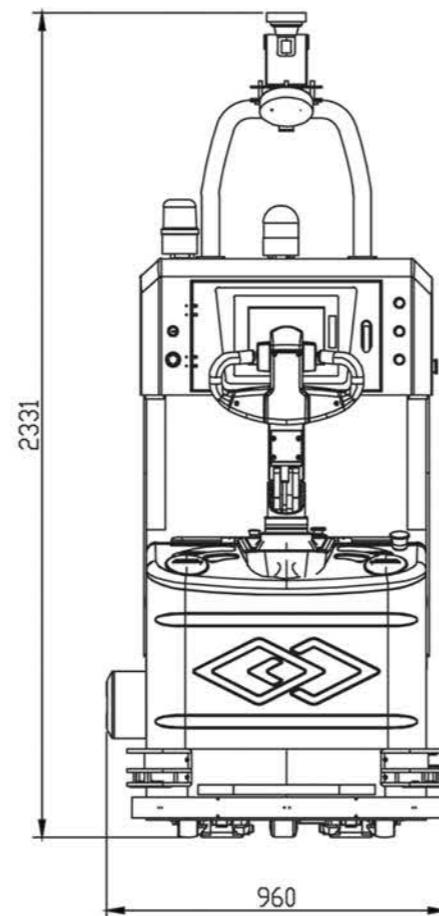
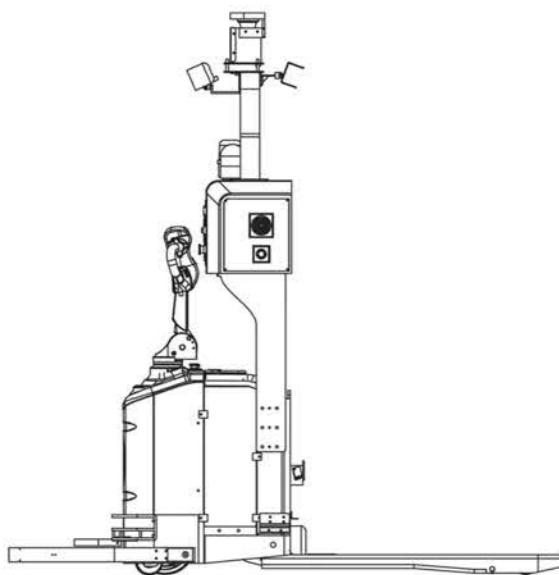
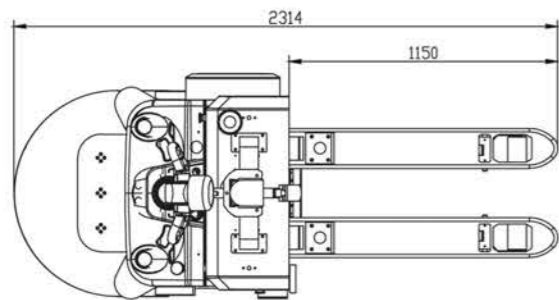


托盘搬运叉车AGV/Pallet handling fork-type AGV

型号 Model: AGVL-H20FRRR-SSSBA

托盘搬运叉车AGV, 与堆垛型相比, 该车型举升高度小, 用于仓库和生产线上的物料自动搬运。

Compared to the stacking fork-type AGV, the pallet fork-type ones are with low lifting height, which can be used for automatic material handling in warehouse and production line.



产品参数/Product parameters



特性 Feature		
型号 Model		AGVL-H20FRRR-SSSBA
类型 Type		搬运型
底盘款式 Chassis Style		单舵轮 Steering wheel
门架类型 Mast Type		二级 Level2
额定载重 Load Capacity	kg	2000
载荷中心距 Load Center	mm	600
轴距 Wheel Base	mm	1493
制动方式 Braking Mode		"电动 Electric /机械 Mechanical"
车轮Wheel		
车轮材质(驱动轮/辅助轮/承重轮) Wheel Material (Driving/ Balance/Bearing)		PU(驱动轮可选橡胶轮)
车轮数量(驱动轮/辅助轮/承重轮) Wheel Quantity (Driving/ Balance/Bearing)	pcs	1/2/4
尺寸Size		
门架作业时整车最大高度 Max Exteng Height	mm	无门架
门架缩回时整车静态高度 Mast Lowered Height	mm	无门架
标准货叉规格(长/宽/厚) Fork Size(L/W/H)	mm	1150/170/75
整车全长, 带弹簧钢带机械防撞 Overall Length	mm	2300
车体宽度 Overall Width	mm	940
最小运动中心转弯半径 Min Turning Radius	mm	2200
"最小直角堆垛通道宽度(单通道一边放货)Min Aisle Width for Pallet	mm	2458

性能 Performance		
动力方式 Engine Mode		蓄电池 Battery
最大行驶速度, 满载/空载 Travel Speed,Laden/Unladen	m/min	78
最大起升速度, 满载/空载 Lift Speed,Laden/Unladen	mm/s	140/220
最大下降速度, 满载/空载 Lowering Speed,Laden/Unladen	mm/s	400/350
最大爬坡度, 满载/空载 Grade ability,Laden/Unladen	%	5/7

电气配置Electrical Equipment		
充电方式 Charge Mode		"手动充电Manual Charge/自动充电 Auto Charge"
电池类型 Battery Type		铅酸Pb-acid/磷酸铁锂
蓄电池电压 Battery Voltage	V	24
蓄电池容量 Battery Capacity	Ah	180
充电时间 Charge Time	H	8/1
导航定位装置 AGPS Sensor		激光 P+F Laser
控制器 Controller		倍福 BECKHOFF
区域检测 Area Detection		SICK TIM320

重量 Weight		
蓄电池重量 (铅酸/磷酸铁锂) Battery Weight	kg	245/120
自重 (包含蓄电池) Dead weight (Including Battery)	kg	990/850

质保 Warranty		
保修时间 Warranty	Y	1

AGVS系统部件 AGV System Parts		
AGVS	set	AGVS-V1.9.6
WCS	set	AGVM-V2.0
WMS	set	AGVM-V1.3.1
自动充电桩 Automatic Charging Point	set	AGVC-YT220V1
呼叫盒 Call Box	pc	AGVB-CB-V3.0
平板电脑 Tablet PC	pc	AGVP-HWCW9.6
电梯控制柜 Elevator Control Cabinet	pc	AGVE-V1.0.0
卷帘门控制柜 Shutter Door Control Cabinet	pc	AGVD-V1.0.0

CORPORATE IMAGE



Web Site:



<http://www.agvsz.com>

手机(Mobile):+86-18913751418



前移堆垛型高位叉车/Reach Stacking Forklift AGV

型号 Model: AGVL-LSF20RR-SSMBA

产品特点: 安全性 高性能 可靠性 易维护 激光二维码混合导航 高精度 提升高度高

产品优势: 无反光板激光自主导航技术

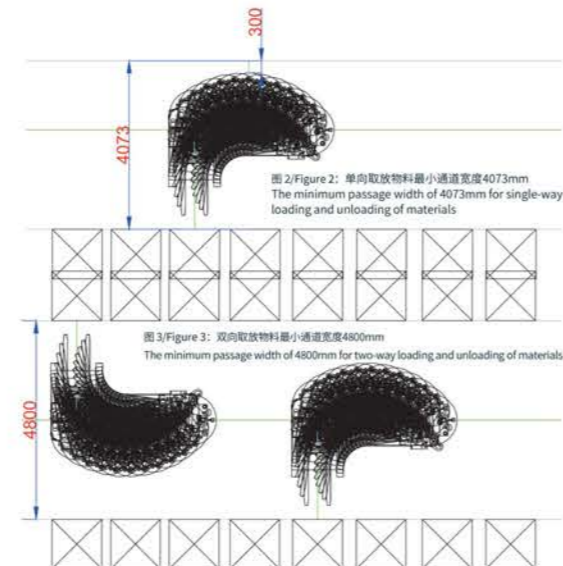
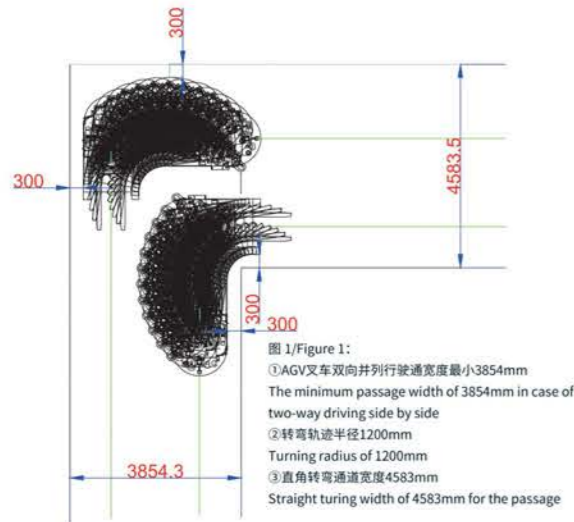
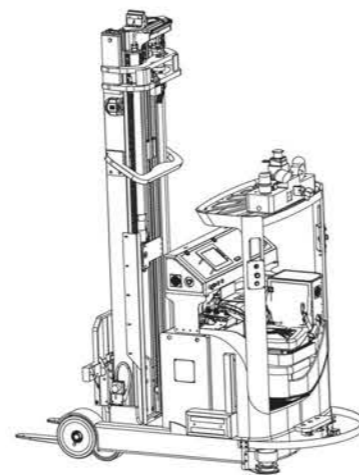
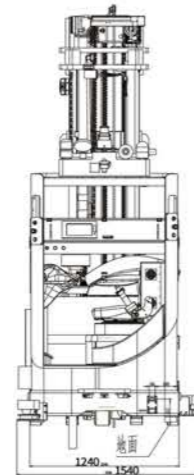
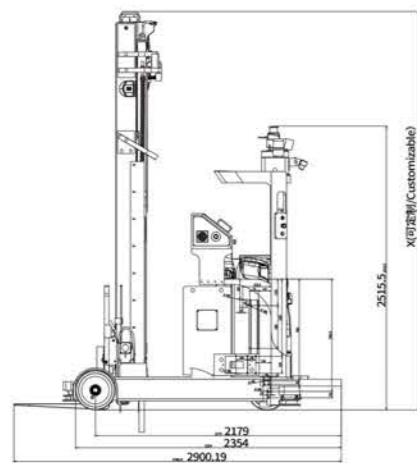
Product Features: Safety High Performance Reliability Service Laser & QR Code Navigation High Precision High Lifting Height

Product Advantage: Non-reflector Laser Autonomous Navigation

产品参数/Product parameters



特性/ Feature	
型号 Mode	AGVL-LSF20RR-SSMBA
类型 Type	前移堆高 (货叉可侧移)
底盘款式 Chassis Style	单舵轮 Steering wheel
门架类型 Mast Type	三级 Level3
额定载重 Load Capacity	kg 2000
载荷中心距 Load Center	mm 600
轴距 Wheel Base	mm 1520
制动方式 Braking Mode	电动/机械 Electric / Mechanical
车轮 Wheel	
车轮材质(驱动轮/辅助轮/承重轮) Wheel Material (Driving/ Balance / Bearing)	聚氨酯胎 Polyurethane tire
车轮数量(驱动轮/辅助轮/承重轮) Wheel Quantity (Driving/ Balance / Bearing)	pcs 1x/2
尺寸 Size	
门架作业时整车最大高度 Max Exteng Height	mm 4355~11455
门架缩回时整车静态高度 Mast Lowered Height	mm 2110~4930
标准货叉规格(长/宽/厚) Fork Size (L/W/T)	mm 1150x100x45
整车全长, 带弹簧钢带机械防撞 Overall Length	mm 3150
车体宽度 Overall Width	mm 1610
最小运动中心转弯半径 Min Turning Radius	mm 800
最小直角堆垛通道宽度(单通道一边放货) Min Aisle Width for Pallet	mm 4650
性能 Performance	
动力方式 Engine Mode	蓄电池 Battery
最大行驶速度, 满载/空载 Travel Speed, laden/unladen	m/min 90
最大起升速度, 满载/空载 Lift Speed, laden/unladen	mm/s 400/660
最大下降速度, 满载/空载 Lowering Speed, laden/unladen	mm/s 550/450
爬坡度, 满载/空载 Gradeability, laden/unladen	% <5
电气配置 Electrical Equipment	
充电方式 Charge Mode	"手动充电 Manual Charge/自动充电 Auto Charge"
电池类型 Battery Type	铅酸 Pb-acid/磷酸铁锂
蓄电池电压 Battery Voltage	V 48V
蓄电池容量 Battery Capacity	Ah 460Ah
充电时间 Charge Time	H 200A (3H)
导航定位装置 AGPS Sensor	激光 P+F Lasor
控制器 Controller	倍福 BECKHOFF
区域检测 Area Detection	KEYENCE SZ-16V
重量 Weight	
蓄电池重量 Battery Weight	kg 1119/380
自重 (包含蓄电池) Dead weight	kg 3260/3200
质保 Warranty	
保修时间 Warranty	Y 1年/1 Year
AGVS系统部件 AGV System Parts	
AGVS	set AGVS-V1.9.6
WCS	set AGWV-V2.0
WMS	set AGVM-V1.3.1
自动充电桩 Automatic Charging Point	set AGVC-YT220V1
呼叫盒 Call Box	pc AGVB-CB-V3.0
平板电脑 Tablet PC	pc AGVP-HWCW9.6
电梯控制柜 Elevator Control Cabinet	pc AGVE-V1.0.0
卷帘门控制柜 Shutter Door Control Cabinet	pc AGVD-V1.0.0



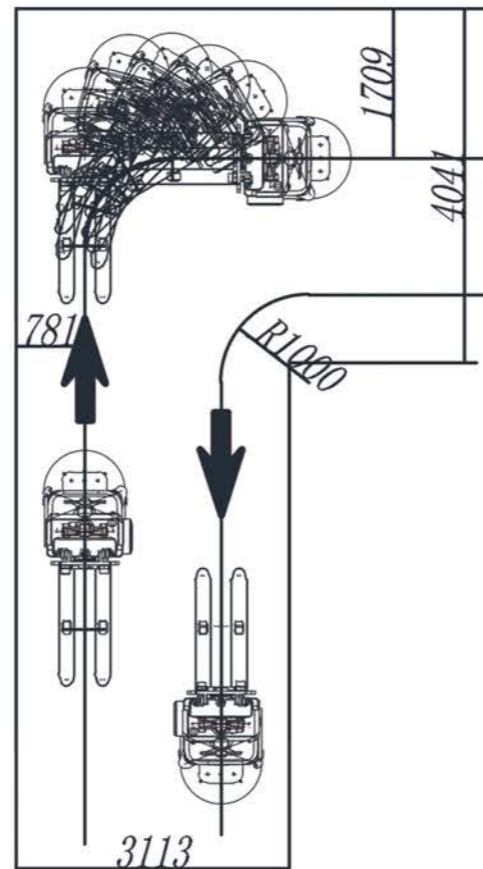
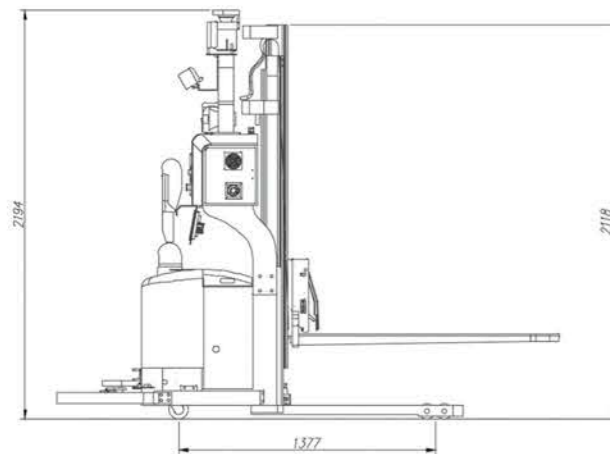
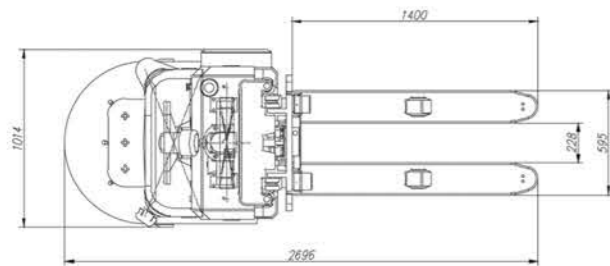


堆垛叉车AGV/Stacking fork-type AGV

型号 Model: AGVL-HSF161R-LSSOM

堆垛叉车AGV,可在不同高度的平台上搬运堆垛,适用于单面、川字托盘及类式物料,用于仓储和生产线上的物料自动搬运堆垛

Stacking fork-type AGV can carry pallet on different heights of platform. It is suitable for single side pallet and similar carriers. It is used for materials handling in storage area and production lines.



产品参数/Product parameters



特性Characteristic

型号 Model	AGVL-HSF161R-LSSOM	
类型 Type	托盘堆垛型	
底盘款式 Chassis Style	单舵轮 Steering wheel	
门架类型 Mast Type	二级 Level2	
额定载重 Load Capacity	kg	1600
载荷中心距 Load Center	mm	600
轴距 Wheel Base	mm	1325
制动方式 Braking Mode	电动 Electric /机械 Mechanical	
车轮Wheel		
车轮材质(驱动轮/辅助轮/承重轮) Wheel Material (Driving/ Balance /Bearing)	PU	
车轮数量(驱动轮/辅助轮/承重轮) Wheel Quantity (Driving/ Balance /Bearing)	pcs	1/2/4
尺寸Size		
门架作业时整车最大高度 Max Exteng Height	mm	3500
门架缩回时整车静态高度 Mast Lowered Height	mm	2200
标准货叉规格(长/宽/厚) Fork Size(L/W/H)	mm	1150/185/55
整车全长,带弹簧钢带机械防撞 Overall Length	mm	2696
车体宽度 Overall Width	mm	1014
最小运动中心转弯半径 Min Turning Radius	mm	700
"最小直角堆垛通道宽度(单通道一边放货)Min Aisle Width for Pallet	mm	3700

性能 Performance

动力方式 Engine Mode	蓄电池 Battery	
最大行驶速度,满载/空载 Travel Speed,Laden/Unladen	m/min	78
最大起升速度,满载/空载 Lift Speed,Laden/Unladen	mm/s	130/230
最大下降速度,满载/空载 Lowering Speed,Laden/Unladen	mm/s	130/230
最大爬坡度,满载/空载 Grade ability,Laden/Unladen	%	5/7

电气配置Electrical Equipment

充电方式 Charge Mode	手动充电Manual Charge/自动充电 Auto Charge	
电池类型 Battery Type	铅酸Pb-acid/磷酸铁锂	
蓄电池电压 Battery Voltage	V	24
蓄电池容量 Battery Capacity	Ah	270/180
充电时间 Charge Time	H	8/1
导航定位装置 AGPS Sensor	激光 SICK Lasor	
控制器 Controller	欧姆龙 OMRON	
区域检测 Area Detection	SICK TIM320	

重量 Weight

蓄电池重量(铅酸/磷酸铁锂) Battery Weight	kg	245/120
自重(包含蓄电池) Dead weight (Including Battery)	kg	1320/1150

质保 Warranty

保修时间 Warranty	Y	1
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AGVS系统部件 AGV System Parts

AGVS	set	AGVS-V1.9.6
WCS	set	AGVW-V2.0
WMS	set	AGVM-V1.3.1
自动充电桩 Automatic Charging Point	set	AGVC-YT220V1
呼叫盒 Call Box	pc	AGVB-CB-V3.0
平板电脑 Tablet PC	pc	AGVP-HWCW9.6
电梯控制柜 Elevator Control Cabinet	pc	AGVE-V1.0.0
卷帘门控制柜 Shutter Door Control Cabinet	pc	AGVD-V1.0.0

CORPORATE IMAGE



Web Site:



<http://www.agvsz.com>

手机(Mobile):+86-18913751418

无反光板激光潜伏顶升AGV(新品)

No-reflector Laser Navigation Lurking Jacking-up AGV

无反光板激光导航潜伏顶升AGV, 伺服差速驱动移动小平台, 可搭载旋转顶升平台、牵引装置等, 运动灵活, 适合空间小、多向搬运需求的物流运输。

No-reflector laser navigation lurking jacking-up AGV, equipped with servo differential driving small mobile platform, can be equipped with rotary jacking platform, traction device, etc. It moves flexibly, and is suitable for narrow space and multi-dimensional transport logistics needs.

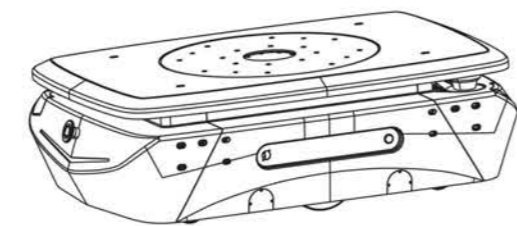
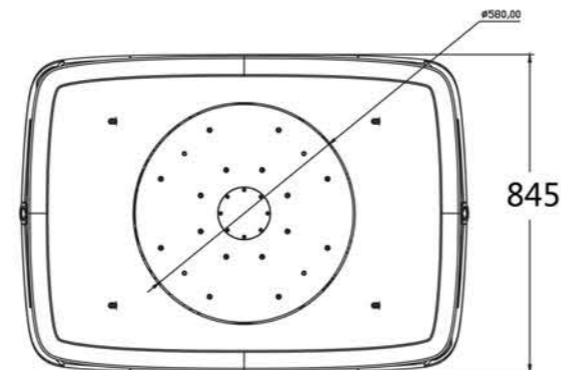
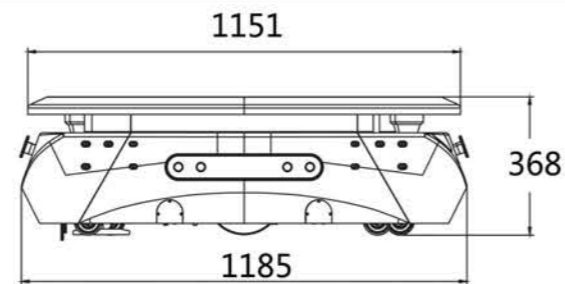


创新点/Innovation Points

- 1、全伺服差速驱动。
Full servo differential drive.
- 2、采用无反光板激光自主导航。
Non-reflector laser autonomous navigation.
- 3、顶升搬运, 更灵活。
Lift handling, more flexible.
- 4、可配旋转顶盘。
Can be equipped with rotating top plate.
- 5、标配自动充电。
Automatic charging.

产品优势/Product Advantage

- 1、全伺服控制, 精度高。
Full servo control, high precision.
- 2、车辆控制灵活, 可以原地旋转。
The vehicle control is flexible, can rotate in situ.
- 3、无反光板激光自主导航, 无需辅助导航标识, 快速自建地图, 柔性程度高。
Non-reflector laser autonomous navigation, no navigation signs, fast self-built map, high degree of flexibility.
- 4、主要零部件由行业内知名供应商提供, 产品稳定。
The main parts and components are provided by well-known suppliers in the industry, and the products are stable.
- 5、安全性高, 采用SICK专业障碍物传感器, 辅助安全触边。
High safety, using SICK professional obstacle sensor, and safety touch edge.



产品参数/Partial Parameter



部分参数/Parameters:

导航方式/Navigation mode	无反光板激光自主导航/Non-reflector laser navigation
外形尺寸(静止状态)/Size (static state)	L1080mm*W760mm*H365mm (可定制) /Customizable
行走方向/Walking direction	全向/Omnidirectional
前进速度/Speed	0-80m/min (可调节) /Adjustable
载荷/Capacity	500kg/700kg/1000kg (可定制) /Customizable
驱动方式/Drive mode	伺服电机驱动/Servomotor drive
电池容量/Battery Capacity	DC48V,30AH(可定制) Customizable
导引精度(测试环境)/Guidance precision (test environment)	±10mm
充电方式/Charging mode	手动充电Manual Charge/自动充电 Auto Charge
安全系统/Security system	障碍物检测系统, 机械防撞系统, 急停系统, LED安全照明警示灯, 声报系统。 Obstacle detection system, mechanical anti-collision system, emergency stop system, lighting warning, sound reporting system.

CORPORATE IMAGE



Web Site:



<http://www.agvsz.com>

手机(Mobile):+86-18913751418

无反光板激光背负式AGV(新品)

Non-reflector Laser Navigation knapsack AGV

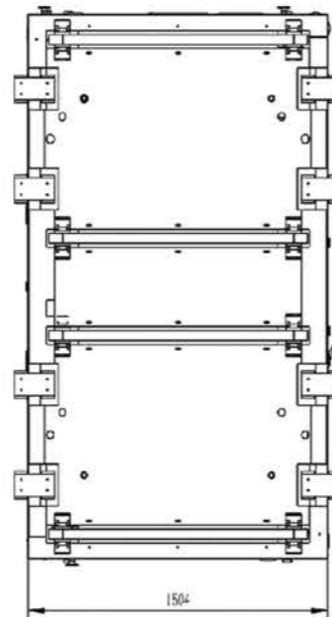
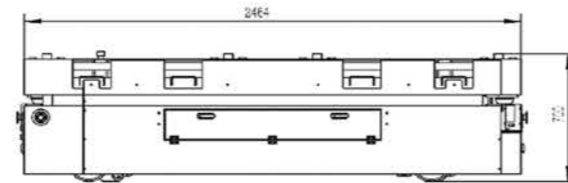
无反光板激光背负式AGV, 双舵轮全伺服驱动的移动平台, 可全向移动, 可搭载链条输送机、滚筒输送机、升降台等其他装置, 可用于重型物料的运输、可用于停车机器人。

Non-reflector laser navigation knapsack AGV, equipped with double steering wheel and full servo drive mobile platform, can move in all direction, can be equipped with chain conveyor, roller conveyor, lifting platform and other devices, mainly used for heavy materials transportation and used as parking robots.



创新点/Innovation Points

- 1. 双舵轮全伺服驱动。**
Double steering wheel full servo drive.
- 2. 采用双无标识激光自主导航。**
Dual no-mark laser autonomous navigation.
- 3. 标准底盘可背负链条、滚筒输送机及其他工装平台。**
Standard chassis can be equipped with chain, roller conveyor and other tooling platforms.
- 4. 可配自动充电。**
can be equipped with automatic charging.



产品优势/Product Advantages

- 1. 全伺服控制, 精度高。**
Full servo control, high precision.
- 2. 车辆控制灵活, 可以原地旋转。**
The vehicle control is flexible, can rotate in situ.
- 3. 无反光板激光自主导航, 无需辅助导航标识, 快速自建地图, 柔性程度高。**
Non-reflector laser autonomous navigation, no navigation signs, fast self-built map, high degree of flexibility.
- 4. 主要零部件由行业内知名供应商提供, 产品稳定。**
The main parts and components are provided by well-known suppliers in the industry, and the products are stable.
- 5. 安全性高, 采用SICK专业障碍物传感器, 辅助安全触边。**
High safety, using SICK professional obstacle sensor, and safety touch edge.

产品参数/Partial Parameter



部分参数/Parameters:

导航方式/Navigation mode	无反光板激光自主导航/Non-reflector laser navigation
外形尺寸(静止状态)/Size (static state)	L2464mm*W1504mm*H700mm (可定制) /Customizable
行走方向/Walking direction	全向 可原地旋转/Omnidirectional
转弯半径/Turning radius	1.5m
前进速度/Speed	0-50m/min (可调节) /Adjustable
载荷/Load	2000kg-10000kg (可定制) /Customizable
导引精度(测试环境) /Guidance precision (test environment)	±10mm
障碍物检测范围/Obstacle detection range	0-3m (不同品牌的障碍物传感器检测角度和范围不同)
充电方式/Charging mode	手动充电Manual Charge/自动充电 Auto Charge
安全系统/Security system	障碍物检测系统, 机械防撞系统, 急停系统, LED安全照明警示灯, 声报系统。 Obstacle detection system, mechanical anti-collision system, emergency stop system, lighting warning, sound reporting system.

CORPORATE IMAGE



Web Site:



<http://www.agvsz.com>

手机(Mobile):+86-18913751418

AGV系统优势/AGVS Advantages

系统应用成熟 稳定 操作简单 界面易懂/Mature, stable and easy to operate



艾吉威仓库管理系统WMS/Warehouse Management System

实时反馈库位使用情况
不同货物种类的存取工作调度管理
提供完善可靠的数据支持
配合设备控制系统，完成企业内部智能物流的信息化管理
Real-time feedback of the use of storage location
Scheduling management of picking up and unloading different kinds of cargoes
Provide perfect and reliable data support
Cooperate with the equipment control system to complete the information management of internal intelligent logistics

艾吉威上位机系统AGVS/AGV System

艾吉威自研AGV系统平台

支持多种导引方式，先进交通管制算法，保障AGV高效运行
该系统可与WMS、MES、ERP系统对接，打通整厂数据链

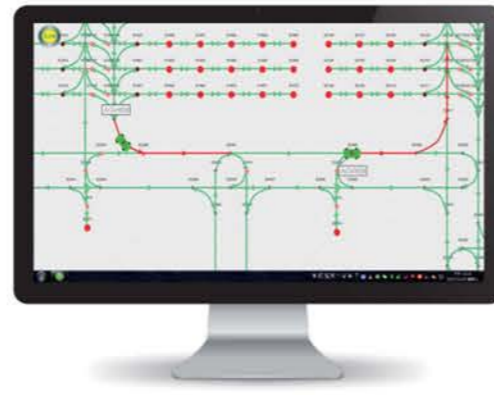
是企业智能物流系统的核心

Self-developed AGV system platform

It is compatible with a variety of navigation methods. The advanced traffic control algorithm is used to ensure the efficient operation of AGV

AGVS can be connected seamlessly with WMS, MES, ERP and others to break through the data chain of the whole factory

It is the core of enterprise intelligent logistics system



仓库控制系统WCS/Warehouse Control System

WCS协调、调度各种物流设备完成WMS仓储控制系统的业务流程

实时反馈状态和数据给WMS仓储系统

并提供对物流设备的接口测试

集成了对接三方信息软件系统的接口功能

协调多系统之间的任务运作，实现多系统无缝对接

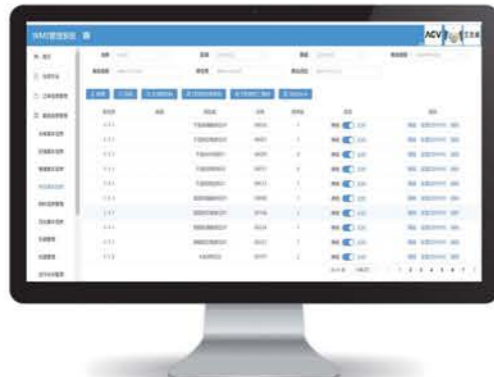
WCS coordinates and dispatches various logistics equipment to complete the business process of WMS warehouse control system

It feedback status and data in real-time to WMS warehouse system

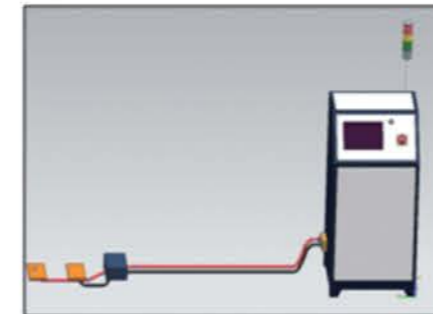
and provide the interface test of logistics equipment

It integrates the function of docking tripartite information software system

It coordinates the tasks among multiple systems to realize the seamless connection of multiple systems



艾吉威配套/ Supporting Services



智能充电站
Intelligent charging station



电梯对接
AGV communication with elevator



自动门对接
AGV communication with automatic door

艾吉威负责AGV工作现场的智能充电站、电梯对接、自动门对接的改造，满足客户使用需求。
AGV Robot provides supporting services, such as intelligent charging, communication with elevator and automatic door.

部分客户/Typical Customers



典型客户/AGV Robot' s Typical Customers

艾吉威专注AGV智能物流系统的建设与改造，产品已在轮胎、造纸、物流、汽车、服装纺织、3C电子、家电和机械制造等行业广泛应用，市场遍布全国，并且出口欧美。

AGV Robot focuses on AGV intelligent handling system. The company' s products have been widely applied in industries such as tires, automobiles, garments and textiles, 3C electronics, home appliances and machinery manufacturing over the country and has exported to Europe and America.

CORPORATE IMAGE



Web Site: <http://www.agvsz.com>
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应用案例

Application case

轮胎行业&化工行业应用案例/Application in the Tire & Chemical Industry

某轮胎企业：中国轮胎行业排名前五，是中国首家A股上市民营轮胎企业。

A tire enterprise is one of the top five tire companies in China and is also China's first A share listed private tire enterprise.

项目背景：本项目是工信部组织的智能制造试点示范专项17个示范项目之一，融合了ERP系统、轮胎数字化制造管控系统、轮胎半成品RFID管控网络系统、条码物流系统、RFID轮胎电子标签封装、AGV搬运系统。

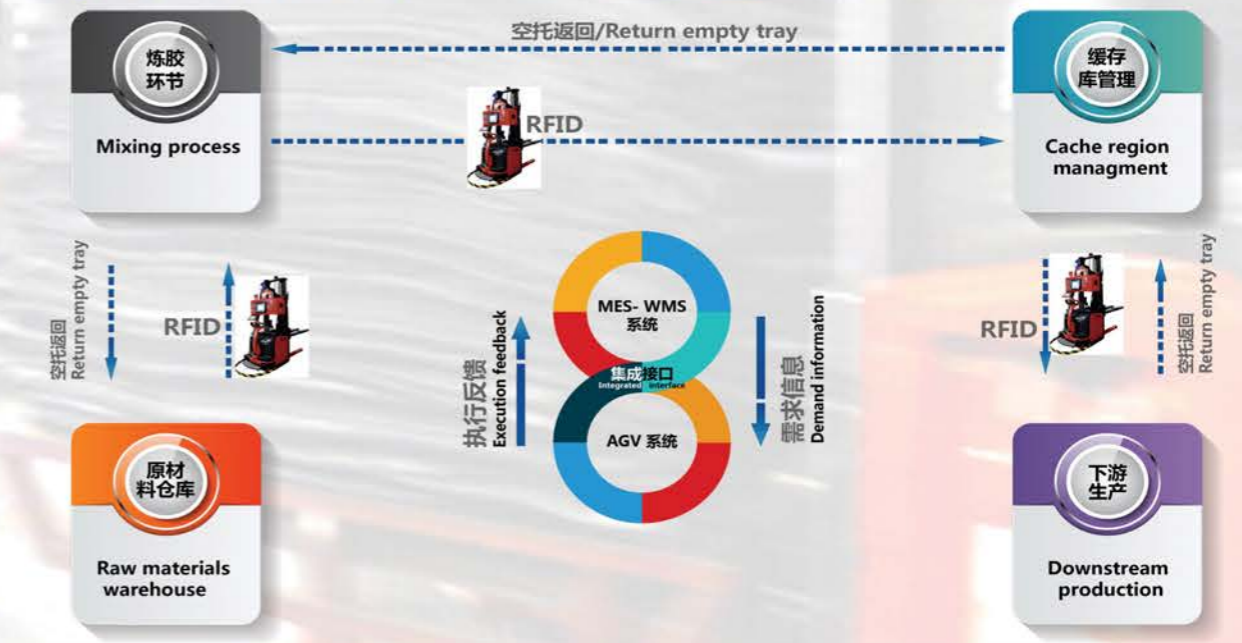
Project background: this project is one of the 17 demonstration projects of intelligent manufacturing organized by MIIT. The project integrated ERP, digital control system, RFID control system, bar code logistics system and AGV handling system.

项目概况：54台无反光板激光叉车组成的智能物流系统在多达7.2万平方米的厂房内实现厂房内的物流无人化。以AGVS为实施主体，打通MES，WMS，ERP等系统的数据链，实现整个智能物流系统的信息实时管理。通过大数据分析，企业在产品的生产质量（产品的良品率提高0.5个百分点），精益化生产（线边库存下降50%），规范化管理（出错率降低）等方面有了显著的提高。

Project overview: the AGV handling system consisting of 54 non-reflector laser navigation fork-type AGVs transports materials in the factory which is up to 72 thousand square meters. AGV system is seamlessly connected with MES, WMS and ERP. The quality of production has increased by 0.5 %, line margin inventory has decreased by 50% and the standardized management has been significantly improved by analyzing the big data.

项目应用前景：本项目是轮胎旧厂改造项目，利用无反光板激光导航叉车AGV克服场地狭窄，空间受限的难点，可复制到轮胎行业新厂智能物流项目建设和旧厂改造项目上。本项目是终炼胶环节的智能搬运，还可扩展到轮胎生产的各工序，利用AGV完成原材料、半成品和胎胚的智能搬运。

Project prospect: this project uses non-reflector laser navigation fork-type AGVs to overcome the narrow space problem. It can be copied in new or old tire factories. The processes in tire production involve vulcanization, molding, cutting, extrusion and rubber mixing. This project is used in rubber mixing and it can also be used in other processes of tire factory.



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应用案例

Application case

工装夹具行业应用案例/Application in Fixture Industry

项目背景：项目所在的高端装备和零部件智能生产车间被授予江苏省示范智能车间。

Project background: this project is the demonstration project for intelligent manufacturing of Jiangsu Province.

项目概况：4台无反光板激光叉车AGV，配合AGV上位机系统、WMS和WCS系统，在1个半成品加工车间，2个成品生产车间和1个毛坯成品混合立体库搬运原材料，半成品和成品。

Project overview: the intelligent handling system cooperating with WMS and WCS transports raw materials, semi-finished products and finished products among one semi-finished product workshop, 2 finished product workshops and 1 warehouse.

项目应用前景：本项目涉及立体库、生产车间、平面库位等多个区域，解决密集搬运、长距离搬运和室外连廊搬运难题，覆盖了厂内智能搬运的主要环节，项目可复制推广到立库与车间托盘物料搬运产景。

Project prospect: the handling system transports materials among warehouse, production workshops and storage areas. It transports materials quickly to the destination at a long distance and also transports materials between buildings. It can be duplicated to other fixture factories .



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应用案例

Application case

国际项目（欧盟）市场及家电行业应用案例

International Project (EU) in Household Appliance Industry

某国家电企业是欧洲最大家用电器与电器制造商。公司响应国家“一带一路”政策的旗舰项目。

A household appliance company is the largest manufacturer of electronic products and appliances in Europe. The project is the company's flagship project in response to the national "One Belt and One Road" policy.

项目背景：该数字化生产车间改造的第一步，通过引入AGV搬运系统，打通生产、仓储和管理的信息流。

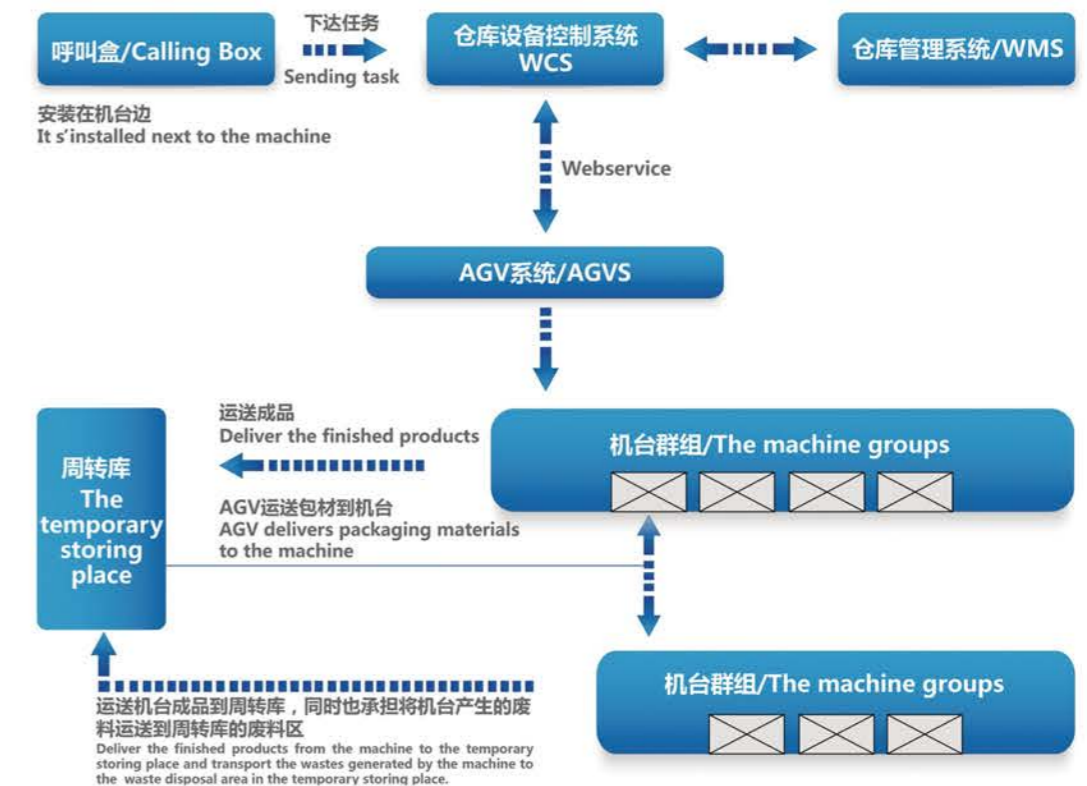
Project background: this project is the first step to establish the digital workshop. It can connect the information flow among production, storage and management systems based on AGV handling system.

项目概述：该项目第一期采用4台无反光板激光叉车AGV，配合AGVS、WCS，完成部分产线自动送料和载具回收的无人搬运作业。后续陆续将采用总计75台无反光板激光叉车AGV完成全部原材料、半成品、成品的搬运工作。

Project overview: the first phase of this project is to automatically transports materials and carriers of some production lines by using 4 non-reflector laser navigation fork-type AGVs with AGVS and WCS. The following phases will automatically transport raw materials, semi-finished products and finished products by using a total number of 75 non-reflector laser navigation fork-type AGVs.

项目应用前景：本项目采用欧洲标准设计实施，并且对接欧洲设备和系统，后续可批量化在欧洲市场推广应用。

Project prospect: the project is designed and implemented with European standard and cooperated with the European equipment and systems. This AGV handling system can be applied in the European and international factories.



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应用案例

Application case

轨道交通行业应用案例

Application in Rail Traffic

某大型集团企业是经国务院同意，国务院国资委批准，由中国北车股份有限公司、中国南车股份有限公司按照对等原则合并组建的A+H股上市公司。

A large group enterprise is an A+H share listed company formed by the merger of CNR Co., Ltd. and CSR Co., Ltd. on the principle of reciprocity with the consent of the State Council and the approval of the State-owned Assets Supervision and Administration Commission of the State Council.

改造难点：生产节拍快（5分钟）；多种规格托盘、载具插取，回收；配合机械臂、输送线；3种模式自由切换（人工下达任务、系统下达任务、电子看板自动调度）。

Project difficulties: The production beat is fast (5 minutes). There are a variety of specifications pallets and vehicles need to be inserted and recycled. AGV needs to cooperate with mechanical arm and conveying line. 3 modes can be switched freely (manual task assignment, system task assignment, and electronic Kanban automatic scheduling).

解决方案：27台叉车AGV完成多期区域多工位的原料至产线、成品至仓库的即时输送；

Solution: 27 forklift type AGVs can deliver the raw materials to the production line and the finished products to the warehouse in time.

改造价值：节省管理精力，生产智能化管理，降低不良率；提高企业生产效率；更好的灵活性和可扩展性的系统，使用整个生产工艺流程全程可追溯。

Project value: It saves management energy, realizes intelligent production management, reduces defective rate, improves the production efficiency, provides more flexible and scalable system and makes the whole production process can be traced.



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