



# 湖北骏途科技有限公司

Hubei Juntu Technology Co.,LTD

[www.juntukeji.com](http://www.juntukeji.com)



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# 公司简介 Company Introduction



湖北骏途科技有限公司是一家专业生产智能立体搬运设备的制造商，是集研发、制造、销售于一体的厂家。 公司主要产品有:AGV和AGC自动导引车、工业机器人、自动化生产线集成改造、EMS自行小车、立体仓储系统等。

AGV及RGV系列产品线覆盖了从0.5吨轻型到100吨重型，潜伏型AGV、辊筒型AGV、举升型AGV、牵引型AGV、承载型AGV、叉车型AGV、重载举升转运型AGV/RGV、柔性联动型AGV等各种规格，具体车型有舵轮型，差速型。麦克纳姆型，可以满足汽车、物流、机械、电子，铁路等大中小型企业对不同工件运输的各种特别需求。公司借鉴吸收了国外先进技术再经自主研发，掌握了产品的核心技术，拥有自主知识产权，开发了AGV最核心部件AGV导引控制器、AGV导引传感器、锂电池管理系统、在线充电系统，成为国内技术先进、产品齐全的科技型企业。

品牌产品广泛应用于模具、机械制造、物流、铁路、船舶、桥梁建设、现代化工厂流水线等工业及其他特殊用途。

Hubei Juntu Technology Co., Ltd. is a professional manufacturer of intelligent three-dimensional handling equipment, which is a collection of research and development, manufacturing and sales in one of the manufacturers. Our main products are AGV and AGC automatic guided vehicles, industrial robots, automated production line integration and transformation, EMS self-propelled trolleys, three-dimensional storage systems, etc. The product line of AGV and RGV series covers from 0.5 tonnes of light to 100 tonnes of heavy-duty, submerged-type AGVs, roller-type AGVs, lifting-type AGVs, towing-type AGVs, load-bearing AGVs, forklift-type AGVs, heavy lift-type AGVs/RGVs, flexible linkage-type AGVs and other kinds of AGVs. Transfer type AGV/RGV, flexible linkage type AGV and other various specifications, the specific models are rudder wheel type, differential type. McNamee type, can meet the special needs of automobile, logistics, machinery, electronics, railway and other large and small enterprises for the transport of different workpieces. The company absorbed foreign advanced technology and then through independent research and development, mastered the core technology of the product, with independent intellectual property rights, developed the most core components of the AGV AGV guidance controller, AGV guidance sensors, lithium battery management system, on-line charging system, to become a domestic technology advanced, complete product technology-based enterprises. Brand products are widely used in moulds, machinery manufacturing, logistics, railway, shipbuilding, bridge construction, modern factory assembly line and other industries and other special purposes.

## 发展历程 Milestones

2014

2014年，组建团队，空中自动化输送装备业务的基础上，根据市场需求开始研究重载机器人结构及移动控制  
In 2014, the team was formed, and on the basis of the aerial automation conveyor equipment business, the research on heavy-duty robot structure and movement control was started according to the market demand.

2015

2015，第一台自主研发的重型搬运机器人交付重工领域客户  
2015, the first self-developed heavy-duty handling robot is delivered to a customer in the heavy industry sector

2018

2018，湖北骏途科技有限公司成立，主营智能物流装备及柔性化物流搬运，大重型移动搬运领域  
2018, Hubei Juntu Technology Co., Ltd. was established, the main intelligent logistics equipment and flexible logistics handling, large and heavy mobile handling field

2019

2019，拓展海外市场，主要深耕俄罗斯、中亚及东南亚客户  
2019, expanding overseas markets, mainly deepening the customers in Russia, Central Asia and Southeast Asia

2020

2020-2022，开始涉足智能仓储领域，拓展集成配套及总集成项目的交付实施。  
2020-2022, began to venture into the field of intelligent warehousing, expanding the integration of supporting and total integration project delivery and implementation.

# 企业文化 corporate culture

培育人才、服务社会  
以人为本、服务客户  
Cultivate talents, serve the society,  
people-oriented, serve customers



创建品牌、融入国际  
Branding and international integration

定位  
locate



目标  
object



理念  
concepts



使命  
mission

以质量求生存，  
靠科技求发展  
Survive by quality, develop  
by science and technology.

实干兴邦、家国天下  
Practical work, family, country, world

# 核心业务 Core business



## 重载AGV Heavy Duty AGV

### 产品特点

- 1.载重大, 可背负举升10T~200T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全
- 5.可升级双车以及多车联动功能

### Product character

- 1.Heavy-duty,load/carry capacity 10T-200T.
- 2.360°walking,Able to complete various actions in a small space
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety
- 5.Can link 2 or more AGVS



## 叉车式AGV Forklift AGV

### 产品特点

- 1.车体内部举升机构和推拉机构全部采用伺服电机加滚珠丝杠。伺服电机旋转精度较高。
- 2.内部采用新型设计的举升机构, 可以使车体制作的更小, 满足小空间的现场使用;
- 3.由于内部全部采用伺服电机加滚珠丝杠,不使用到液压力单元, 不会出现漏油现象。

### Product character

1. The lifting mechanism and push-pull mechanism inside use servo motors and ball screws. Servo motor has high rotation accuracy
2. New designed lifting mechanism is used internally, which can make the forklift AGV body smaller and meet the needs in small spaces;
3. There will be no oil leakage since all internal parts use servo motors and ball screws rather than hydraulic power unit is used.



## 立体仓库 3D warehouse

### 产品特点

- 1、运行速度快, 可轻松适应每个仓库在负载能力、尺寸、布局和循环时间方面的需求。它们可以处理托盘或滑轨上的负载
- 2、存储效率高
- 3、取放货灵便
- 4、自动化和信息化程度高
- 5、行走路线有直线型和环形两种, 输送方式有单工位和双工位两种

### Product character

- 1、 Double column stacker travel quickly and easily adapts to the needs of each warehouse in terms of load capacity, size, layout and cycle times. They can handle loads on pallets or slides
- 2、 High storage efficiency
- 3、 Easy to pick up and place goods
- 4、 High level of automation and informatization
- 5、 2 types of walking routes: linear and circular, and two conveying methods: single station and double station.



# 产品介绍

## Product Introduction

- 物流AGV
- Logistics AGV
- 重载AGV
- Heavy Duty AGV
- 叉车AGV
- Forklift AGV
- 堆垛机
- palletisers
- 立体停车库
- three-dimensional parking garage
- 装配AGV
- Assembly AGV
- 定制AGV
- Customised AGV
- 有轨穿梭车 (RGV)
- Railway Shuttle Vehicle (RGV)
- EMS系统
- EMS system

# 物流AGV Logistics AGV



单向潜伏背负式AGV(型号JTC-001)  
Unidirectional lurking carrier  
AGV(Model:JTC-001)

#### 产品特点

- 1.单向运行, 可牵引500KG~1500KG货物
- 2.磁导航, 性价比高, 定位精确, 可靠性高
- 3.配备磁导航地标, 可进行站点停靠
- 4.驱动单元可一键升降, 方便维护
- 5.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.Unidirection, load capacity 500KG-1500KG
- 2.Magnetic navigation, low cost, accurate positioning and high reliability
- 3.Equipped with magnetic navigation landmarks for site stops
- 4.Drive unit can be raised and lowered with one click for easy maintenance.
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)



双向潜伏背负式AGV(型号JTC-002)  
Bidirectional lurking carrier  
AGV(Model:JTC-002)

#### 产品特点

- 1.双向运行, 可牵引500KG~2000KG货物
- 2.磁导航, 性价比高, 定位精确
- 3.配备磁导航地标, 可进行站点停靠
- 4.驱动单元可一键升降, 方便维护
- 5.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.Bidirectional,load capacity 500KG-2000KG
- 2.Magnetic navigation, low cost, accurate positioning and high reliability
- 3.Equipped with magnetic navigation landmarks for site stops
- 4.Drive unit can be raised and lowered with one click for easy maintenance.
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)



单向牵引式AGV(型号JTT-001)  
Traction AGV(Model:JTT-001)

#### 产品特点

- 1.单向运行, 可牵引500KG~5000KG货物
- 2.磁导航, 性价比高, 定位精确, 可靠性高
- 3.配备磁导航地标, 可进行站点停靠
- 4.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.Unidirection, load capacity500KG-5000KG
- 2.Magnetic navigation, low cost, accurate positioning and high reliability
- 3.Equipped with magnetic navigation landmarks for site stops
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)

## 装配AGV Assembly AGV



装配背负式AGV(型号JTC-015)  
Assembly Backpack AGV(Model  
JTC-015)

### 产品特点

- 1.单向运行, 可背负500KG~1500KG货物
- 2.磁导航, 性价比高, 定位精确, 可靠性高
- 3.配备磁导航地标, 可进行站点停靠
- 4.驱动单元可一键升降, 方便维护
- 5.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

### Product character

- 1.Unidirection, load capacity 500KG-1500KG
- 2.Magnetic navigation, low cost, accurate positioning and high reliability
- 3.Equipped with magnetic navigation landmarks for site stops
- 4.Drive unit can be raised and lowered with one click for easy maintenance.
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)



双向背负辊筒式AGV(型号:JTC-003)  
Bidirectional roller carrier  
AGV(Model:JTC-003)

### 产品特点

- 1.双向运行, 可背负100KG~2000KG货物
- 2.背负物料, 可实现与线边滚筒自动对接上下料
- 3.配备磁导航地标, 可进行站点停靠
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Bidirectional,load capacity100KG-2000KG
- 2.Carry materal, connect with the lineside roller to realize automatic loading and unloading.
- 3.Connect with the lineside roller to realize automatic loading and unloading.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety



装配举升式AGV(型号JTC-005)  
Lifting AGV for assembly (Model:  
JTC-005)

### 产品特点

- 1.双向运行, 可负载500KG~3000KG货物
- 2.磁导航, 性价比高, 定位精确
- 3.配备磁导航地标, 可进行站点停靠
- 4.驱动单元可自动升降, 方便维护
- 5.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

### Product character

- 1.Bidirectional,load capacity 500KG-3000KG
- 2.Magnetic navigation, Excellent performance in low cost, accurate positioning
- 3.Equipped with magnetic navigation landmarks for site stops
- 4.rive unit can be raised and lowered with one click for easy maintenance.
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)

## 重载AGV Heavy Duty AGV



双向背负式AGV(型号JTC-007)  
Bidirectional carrier AGV(Model  
JTC-007)

### 产品特点

- 1.双向运行, 可背负500KG~3000KG货物
- 2.背负物料, 可实现货物在各车间或工位的轻松搬运
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Bidirectional,load capacity 500KG-3000KG
- 2.Carrying materials enables easy transportation of goods in various workshops or work stations.
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety



全向背负式AGV(型号JTC-011)  
360°differential wheel set carrier  
AGV(Model:JTC-011)

### 产品特点

- 1.差速驱动载重大, 可背负举升3T~10T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Heavy-duty,carry capacity 3T-10T
- 2.360°walking,Able to complete various actions in a small space
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety



全向背负式AGV(型号JTC-010)  
360°steering wheel carrier  
AGV(Model: JTC-010)

### 产品特点

- 1.舵轮驱动载重大, 可背负举升3T~10T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Heavy-duty,carry capacity 3T-10T
- 2.360°walking,Able to complete various actions in a small space
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety

# 重载AGV Heavy Duty AGV



## 360度重载背负举升式AGV(型号JTC-008) 360°heavy-duty carrier lifting AGV (Model: JTC-008)

### 产品特点

- 1.载重大, 可背负举升10T~200T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全
- 5.可升级双车以及多车联动功能

### Product character

- 1.Heavy-duty,load/carry capacity 10T-200T.
- 2.360°walking,Able to complete various actions in a small space
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety
- 5.Can link 2 or more AGVS



## 全向重载背负举升式AGV(型号JTC-009) 360°heavy-duty mecanum wheel carrier AGV(Model:JTC-009)

### 产品特点

- 1.载重大, 可背负10T~60T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Heavy-duty,carry capacity10T-60T.
- 2.360°walking,Able to complete various actions in a small space
- 3.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety



## 户外背负式AGV(型号JTO-001) Out door carrier AGV(Model: JTO-001)

### 产品特点

- 1.载重大, 可背负举升50T~100T货物
- 2.全向行走, 可在狭小空间完成各种动作
- 3.配备磁导航地标/北斗导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 4.安全防护更加到位, 270°避障保障安全

### Product character

- 1.Heavy-duty,carry capacity 50T-100T.
- 2.360°walking, able to complete various actions in small spaces
- 3.Equipped with magnetic navigation landmark/Beidou navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also manually assist with remote control to complete random tasks.
- 4.More comprehensive safety protection, 270° obstacle avoidance to ensure safety

## 订制AGV Customised AGV



### 卷材线缆搬运AGV(型号JTC-004) Rolled material carrier AGV(Model:JTC-004)

#### 产品特点

- 1.双向运行, 可运载500KG~2000KG货物
- 2.磁导航, 性价比高, 定位精确
- 3.配备磁导航地标, 可进行站点停靠
- 4.驱动单元可自动升降, 方便维护
- 5.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.Bidirectional,load capacity 500KG-2000KG
- 2.Magnetic navigation, Excellent performance in low cost, accurate positioning
- 3.Equipped with magnetic navigation landmarks for site stops
- 4.Drive unit can be raised and lowered with one click for easy maintenance.
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)



### 港口搬运AGV(型号JTG-001) Port handling AGVs(Model:JTG-001)

#### 产品特点

- 1.全向运行, 可牵引30T~100T货物
- 2.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 3.安全防护更加到位, 270°避障保障安全
- 4.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.360°movement, load capacity 30T-100T
- 2.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 3.More comprehensive safety protection, 270° obstacle avoidance to ensure safety
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)



### 重型背负吊装式AGV (型号JTC-006) Heavy-duty carry lift AGV (Model:JTC-006)

#### 产品特点

- 1.全向运行, 可牵引30T~100T货物
- 2.配备磁导航地标/激光SLAM导航模式, 可进行站点停靠, 自动取送货物, 也可以人工遥控协助工作完成随机性任务
- 3.安全防护更加到位, 270°避障保障安全
- 4.四重安全防护 (激光安全防护; 机械防撞装置; 声光报警; 急停按钮)

#### Product character

- 1.360°movement, load capacity 30T-100T
- 2.Equipped with magnetic navigation landmark/laser SLAM navigation mode, it can stop at sites, automatically pick up and deliver goods, and can also use manual remote control to assist in completing random tasks.
- 3.More comprehensive safety protection, 270° obstacle avoidance to ensure safety
- 5.4 kinds safety protection (laser safety protection; mechanical anti-collision device; sound and light alarm; emergency stop button)

# 叉车AGV Forklift AGV



潜伏顶升式AGV (型号JTC-012)  
Unidirectional lurking carrier  
AGV(Model:JTC-001)

#### 产品特点

1.6点式布局，分为2个驱动轮和4个从动轮，驱动轮由电机驱动减速机，减速机输出端和驱动轮连接进行传动，实现车体前进后退；车体转向由电机进行差速控制实现车体转向；从动轮位于车头和车尾，该结构可以浮动且与支承轮集成在一起，可以时刻保持与地面的接触。

#### Product character

6-point layout, divided into 2 driving wheels and 4 driven wheels. The driving wheel is driven by the motor to drive the reducer. The output end of the reducer is connected to the driving wheel for transmission, allowing the AGV to move forward and backward; the steering of the AGV is differentially performed by the motor. The control realizes the steering of the AGV body; the driven wheels are located at the front and rear of the AGV. The structure can float and be integrated with the supporting wheels to maintain contact with the ground at all times.



叉车式AGV(型号JTF-001)  
Forklift AGV(Model:JTF-001)

#### 产品特点

1.车体内部举升机构和推拉机构全部采用伺服电机加滚珠丝杠。伺服电机旋转精度较高。  
2.内部采用新型设计的举升机构，可以使车体制作的更小，满足小空间的现场使用；  
3.由于内部全部采用伺服电机加滚珠丝杠,不使用到液压动力单元，不会出现漏油现象；

#### Product character

1. The lifting mechanism and push-pull mechanism inside use servo motors and ball screws. Servo motor has high rotation accuracy  
2. New designed lifting mechanism is used internally, which can make the forklift AGV body smaller and meet the needs in small spaces;  
3. There will be no oil leakage since all internal parts use servo motors and ball screws rather than hydraulic power unit is used.



超薄堆垛式AGV(型号JTF-005)  
Thin stacker AGV(Model:JTF-005)

#### 产品特点

1.适用于极窄巷道内货物运输或堆垛的车型，机动灵活，可在狭小空间自由运行。

#### Product character

Thin stacker AGV is suitable for transporting or stacking goods in extremely narrow lanes. It is maneuverable and can operate freely in small spaces.

# 叉车AGV Forklift AGV



堆垛式AGV(Model:JTF-002)  
Stacker forklift AGV(Model:JTF-002)

## 产品特点

1.堆垛式agv它是带支撑腿堆垛式AGV。除此之外，他还具有一个非常有优势的特点，那就是它转弯半径小，并且能够适合单面托盘，并且更值得一提的是，它是可定制国标欧标及非标车型。所以这对工厂的生产生活和作业非常的有利。

## Product character

Stacker forklift AGV is a stacking AGV with supporting legs. In addition, it also has a very advantageous feature, that is, it has a small turning radius and can be suitable for single-sided pallets. What is more worth mentioning is that it can be customized for national, European and non-standard models. So this is very beneficial to the production life and operation of the factory.



平衡重式AGV(型号JTF-004)  
Counter weight forklift  
AGV(Model:JTF-004)

## 产品特点

1.平衡重式无人叉车基于激光导航，多样化全自动无人化搬运和货物出入库，主要应用于产线、仓库的水平搬运、精准堆垛、垂直上下架及货物装卸，解决了单货物低效率搬运问题，坚实宽大的底座大大加强了车体的稳定性，能承载更多的货物，负载能力相对于传统型AGV有了很大的提升。

## Product character

1.Counterbalanced unmanned forklift is based on laser navigation, diversified fully automatic unmanned handling and goods in and out of the warehouse, mainly used in production lines, warehouses, horizontal handling, accurate stacking, vertical up and down shelves and goods loading and unloading, solving the problem of low-efficiency handling of single goods, solid and wide base greatly strengthens the stability of the car body, can carry more goods, the load capacity relative to the traditional type of AGV has a great improvement.



三向叉式AGV(型号JTF-003)  
3 direction forklift AGV(Model:JTF-003)

## 产品特点

1.三向叉式agv它是多用途堆垛式AGV。除此之外，他还具有一个非常有优势的特点，它可以在狭窄通道进行搬运，车身不用转弯就可实现货物的存取工作。非常适用于货物多，仓库小的密集型仓储，这对工厂的生产生活和作业非常的有利。

## Product character

3 direction forklift AGV is a multi-purpose stacking AGV. In addition, it also has a very advantageous feature. It can be transported in narrow aisles, and the vehicle body can store and retrieve goods without turning. It is very suitable for intensive warehousing with a large amount of goods and a small warehouse, which is very beneficial to the production, life and operation of the factory.

# 有轨穿梭车 (RGV) Railway Shuttle Vehicle (RGV)

轨道式RGV(型号JTC-013)  
Track carrier RGV(Model:JTC-013)

## 产品简介

RGV小车用于各类高密度储存方式的仓库；小车通道可设计任意长，可提高整个仓库储存量；在操作时无需叉车驶入巷道，配合小车在巷道中的快速运行；在保证其安全性同时，有效提高仓库的运行效率。根据行走要求不同通常产品有单轨式，双轨式和转弯式三种，根据输送形式不同可分为滚筒式和链条式两种。

## Product Description

RGV trolley is used in all kinds of high-density storage warehouses; the trolley channel can be designed to be any length, which can improve the storage capacity of the whole warehouse; no forklift truck is required to drive into the aisle during the operation, with the trolley's fast running in the aisle; while ensuring its safety, it can effectively improve the operating efficiency of the warehouse. According to the different walking requirements usually products have a single-track type, double-track type and turn type three kinds, according to the different forms of conveyor can be divided into roller type and chain type two kinds.



## 产品特点

- 1、运行速度快
- 2、存储效率高
- 3、取放货灵便
- 4、自动化和信息化程度高
- 5、行走路线有直线型和环形两种，输送方式有单工位和双工位两种

## Product character

- 1、Fast travel speed
- 2、High storage efficiency
- 3、Easy to pick up and place goods
- 4、High degree of automation and informatization
- 5、There are two types of walking routes: linear and circular, and two conveying methods: single station and double station.

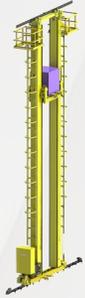
## 产品参数

外形尺寸	L1600*W1500*H600mm
通讯方式	无线通讯装置，通讯的距离300-500M
控制模式	自动、半自动、手动
行进方向	前进/后退/转弯
额定负载	0-5000KG
运行速度	60~120m/min
供电方式	滑触线/电池
定位精度	±5mm
停止精度	±5mm
操作方式	自动/手动遥控
认证方式	激光或条码+认址片
产品重量	860KG

## Specification

Dimensions	L1600*W1500*H600mm
communication method	Wireless communication device, communication distance 300-500M
Control mode	Automatic, semi-automatic, manual
Travel direction	Forward/Back/Turn
Rated load	0-5000KG
Walking speed	60-120m/min
Power supply	Slide wire/battery
Positioning accuracy	±5mm
Stopping accuracy	±5mm
Operation method	Automatic /manual remote control
Verification method	Laser or barcode + address sheet
Weight	860KG

# 堆垛机 palletisers



## 双立柱堆垛机(型号JTS-001) Double column stacker(Model:JTS-001)

### 产品特点

- 1、运行速度快,可轻松适应每个仓库在负载能力、尺寸、布局和循环时间方面的需求。它们可以处理托盘或滑轨上的负载
- 2、存储效率高
- 3、取放货灵便
- 4、自动化和信息化程度高
- 5、行走路线有直线型和环形两种,输送方式有单工位和双工位两种。

### Product character

- 1、Double column stacker travel quickly and easily adapts to the needs of each warehouse in terms of load capacity, size, layout and cycle times. They can handle loads on pallets or slides
- 2、High storage efficiency
- 3、Easy to pick up and place goods
- 4、High level of automation and informatization
- 5、2 types of walking routes: linear and circular, and two conveying methods: single station and double station.



## 单立柱堆垛机(型号JTS-002) Uni-column stacker(Model:JTS-002)

### 产品特点

- 1、运行速度快,可轻松适应每个仓库在负载能力、尺寸、布局和循环时间方面的需求。它们可以处理托盘或滑轨上的负载
- 2、存储效率高
- 3、取放货灵便
- 4、自动化和信息化程度高
- 5、行走路线有直线型和环形两种,输送方式有单工位和双工位两种。

### Product character

- 1、Double column stacker travel quickly and easily adapts to the needs of each warehouse in terms of load capacity, size, layout and cycle times. They can handle loads on pallets or slides
- 2、High storage efficiency
- 3、Easy to pick up and place goods
- 4、High level of automation and informatization
- 5、2 types of walking routes: linear and circular, and two conveying methods: single station and double station.



## 重型单立柱堆垛机(型号JTS-003) Heavy duty Uni-column stacker(Model:JTS-003)

### 产品特点

- 1、运行速度快,可轻松适应每个仓库在负载能力、尺寸、布局和循环时间方面的需求。它们可以处理托盘或滑轨上的负载
- 2、存储效率高
- 3、取放货灵便
- 4、自动化和信息化程度高
- 5、行走路线有直线型和环形两种,输送方式有单工位和双工位两种。

### Product character

- 1、Double column stacker travel quickly and easily adapts to the needs of each warehouse in terms of load capacity, size, layout and cycle times. They can handle loads on pallets or slides
- 2、High storage efficiency
- 3、Easy to pick up and place goods
- 4、High level of automation and informatization
- 5、2 types of walking routes: linear and circular, and two conveying methods: single station and double station.

# EMS系统

## EMS system

### 产品简介

自行小车输送系统（EMS）是高度体现机电一体化技术的物流输送系统，它融合了机械、电气、计算机、自动控制四大技术精髓，集仓储、运输、装卸、工艺操作四大物流环节为一体的柔性生产系统，在物料输送行业中发挥着极其重要的作用。它是目前国内外广为流行的一种物料输送设备。主要适用于汽车、轻工、家电等行业自动化输送生产线。

### Product Description

Self-propelled trolley conveyor system (EMS) is a highly embodied mechatronics technology logistics conveyor system, which combines the essence of the four major technologies of mechanical, electrical, computer and automatic control, and integrates the four major logistics links of warehousing, transport, loading and unloading, and process operation into one flexible production system, which plays an extremely important role in the material conveying industry. It is a kind of material conveying equipment which is widely popular at home and abroad. It is mainly applied to automated conveying production line in automobile, light industry, home appliance and other industries.



# 立体停车库

## three-dimensional parking garage

### 产品简介

PSH-6型升降横移类停车设备主要由主框架、载车板、横移机构、提升机构、安全设施及电控系统等部分组成；载车板为停车位。上载车板是通过四根钢丝绳吊挂在框架上，提升机构驱动钢丝绳可使上载车板上升或下降，横移机构可驱动载车板左右横移。标准型设备一般由三列组成，配一个集中控制单元，也可根据需要多列进行组合，并设一个集中控制单元，每个控制单元需设一列空车位，以便上车板能够降下（或升起）至下层进行存取车。

### Product Description

The Psh-6 type lifting and moving parking equipment is mainly composed of main frame, carrying plate, moving mechanism, lifting mechanism, safety facilities and electronic control system. The loading plate is hung on the frame by four steel wire ropes. The hoisting mechanism drives the steel wire rope to make the loading plate rise or fall.

Standard equipment generally consists of three columns, with a centralized control unit, or can be combined according to the need of multiple columns, and set a centralized control unit, each control unit to set an empty space, so that the boarding board can be lowered (or raised) to the lower level for access to the car.



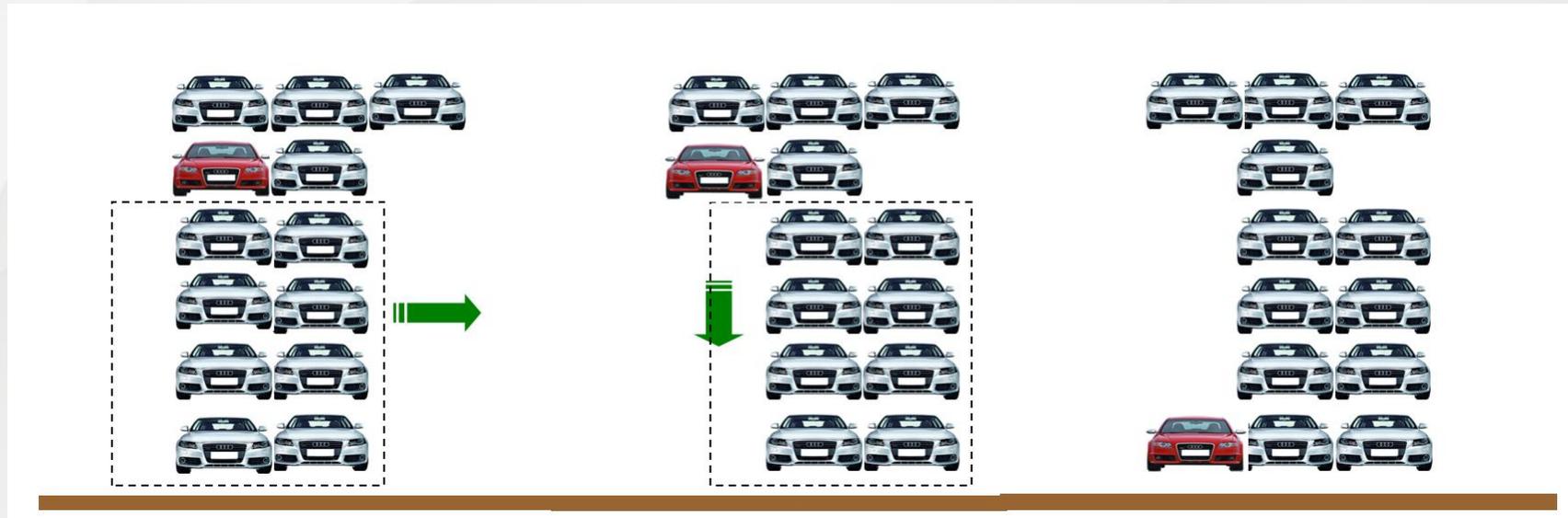
# 立体停车库 three-dimensional parking garage

## 六层升降横移类

Six rise and fall transverse class

## 设备运行原理

Principle of operation of the equipment



**第一步：**如取501号红色车，则虚线框内的车须同时向右平移。

**Step 1:** If you take the Red Car No. 501, the car in the dotted frame should be shifted to the right at the same time.

**第二步：**当虚线框内的车横移到位后，501号红色车下降到地面。

**Step 2:** when the car in the dotted frame moves sideways, the 501 red car descends to the ground.

**第三步：**501号红色车下降至地面一层，驶离车位，取车完毕。

**Step 3:** No. 501 red car down to the ground level, away from the parking space, pick up the car over.

# 立体停车库 three-dimensional parking garage

## 六层升降横移类

Six rise and fall transverse class

容车数量 Capacity		6*N-1 (N为列数) (N is the number of columns)	
设备型式 Type of equipment		一层 First floor	二~六层 Second to sixth floor
容车规格 Capacity specifications	长度 (mm) Length	5300	5000
	宽度 (mm) Width	1900	1850
	高度 (mm) Height	1550	1550
	重量 (kg) Weight	2000	2000
设备尺寸 Size of equipment	长度 (mm) Length	6500	6200
	宽度 (mm) Width	2600	2500
	高度 (mm) Height	10400	10400

停车设备技术参数表  
Parking equipment technical parameters table

升降 Up and down	电机功率 Motor Power	二~四层 Two-four	2.2Kw
		五~六层 Five or six	3.7Kw
	速度 Speed	二~四层 Two-four	4.0m/min
		五~六层 Five or six	7.0m/min
横移 Transversal	电机功率 Motor Power	一层 First floor	0.2kw
		二~五层 Second to fifth floor	0.4kw
	速度 Speed	一~五层 First to fifth floor	7.0m/min
平均存(取)车时间 Average access time			60s
升降驱动方式 Lift Drive mode			车库专用电机+钢丝绳 Special motor for garage+Wire rope
控制方式 Control mode			可编程控制器 (PLC) Programmable controller
操作方式 Operation Mode			刷卡/按键方式 Swipe card/Key
电源及容量 Power supply and capacity			三相五线制 380V/50Hz 5.0KVA Three-phase five-wire system

# 立体停车库 three-dimensional parking garage

## 平面移动类

The plane moving class

该新型设备（大轿厢型平面移动类停车设备）是传统平面移动类停车设备改进型产品，它结合了垂直升降类和巷道堆垛类等停车设备的技术特点，可以实现水平及垂直方向的同时快速运动，有效缩短了车辆的存取车时间，存取车平均时间一般为90s，极大提高了存取车效率；该类型设备的每个停车层可停放6~14辆车，停车库层数最高可达16层，占地面积小于巷道堆垛类和传统的平面移动类停车库，其平均每辆车占地面积约仅1.2m<sup>2</sup>，空间利用率高；是现代化城市中较适合建于地面上的高容量立体车库。



This new type of equipment (large car type plane moving type parking equipment) is an improved product of traditional plane moving type parking equipment. It combines the technical characteristics of vertical lifting type and lane stacking type parking equipment, it can move horizontally and vertically at the same time, and effectively shorten the vehicle access time. The average access time is 90s, which greatly improves the access vehicle efficiency. Each type of equipment can park 6-14 cars, the highest number of parking levels up to 16, covering an area smaller than the roadway stacking type and the traditional plane mobile type of parking garage, the average area of each vehicle is only 1.2 m<sup>2</sup>, and the space utilization ratio is high.



# 立体停车库 three-dimensional parking garage

## 平面移动类

The plane moving class

### 设备技术特点

Technical characteristics of the  
equipment

1. 结合了平面移动类、垂直升降类及巷道堆垛类等停车库的技术优势；
2. 占地面积少，停车库容车量大，可实现高密度停车；
3. 可根据场地、空间情况，充分利用三维空间，灵活建造车库，可建为地上或半地上半地下库，车库构建可为全钢结构或钢筋混凝土式构造；
4. 效率高、速度快，可实现多人同时存/取车，存取车时间一般为90秒；
5. 用户存取车需在操作屏上刷卡、扫码或输入车牌号即可，车辆进出库无需倒车、调头等动作，操作便捷、舒适停车。

1. It combines the technical advantages of parking garages such as plane moving type, vertical lift roadway stacking type.
2. Small area, parking garage capacity, can achieve high-density parking.
3. According to the site and space conditions, full use of 3D, flexible construction of the garage as an above-ground or half-above-ground half-underground garage, garage construction can be all-steel structure or reinforced concrete structure.
4. High efficiency, high speed, can achieve multi-people at the same time storage/access car, access time is generally 90 seconds.
5. The user needs to swipe the card, scan the code or input the license plate number on the operation screen to access the car.



# 立体停车库 three-dimensional parking garage

## 平面移动类

The plane moving class

### 停车流程 (Parking procedures)

#### 1、车辆入库 (The vehicle goes into storage)

车辆行驶至入口前感应装置处，入口车库门自动开启，驾驶员根据指示屏幕及语音指引开车行驶至存车位置。

When the vehicle moves to the front entrance sensor, the garage door will open automatically, and the driver follows the instruction screen and voice guide to drive to the parking place.

#### 2、停车确认 (Stop for confirmation)

停好车后，人员下车出库，确认停车后进入存车程序。

After parking, personnel out of the garage, confirm parking into the parking procedures.

#### 3、搬运器交接 (Transfer of the transporters)

系统得指令后由搬运器将车辆交接至主体升降机上。

The system is instructed to transfer the vehicle to the main lift by the carrier.

#### 4、升降机搬运 (Lift handling)

升降机与横移台车同时完成车辆水平及垂直方向运动，并将车辆搬运至空余车位处。

The lift and the trolley simultaneously complete the horizontal and vertical movement of the vehicle and be transported to the spare parking space.

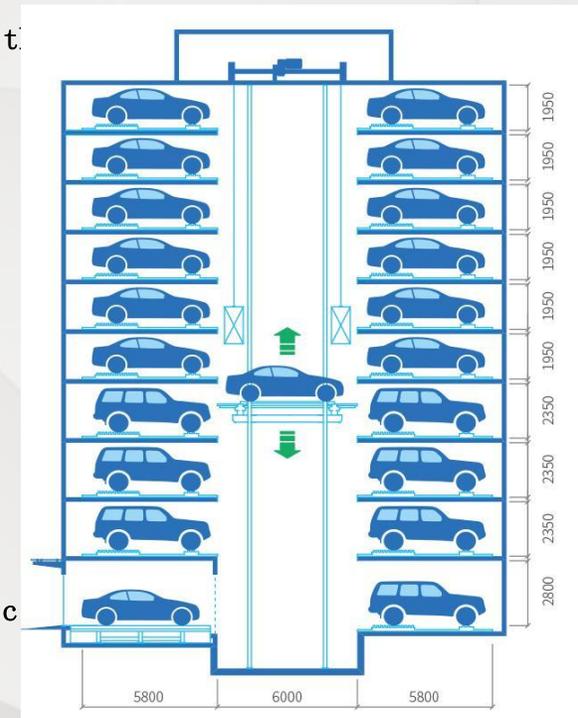
#### 5、库位存放 (Storage)

由搬运器搬运车辆至库位梳齿架上，完成车辆存放。

The carrier carries the vehicle to the comb rack in the storeroom, and the vehicle is stored.

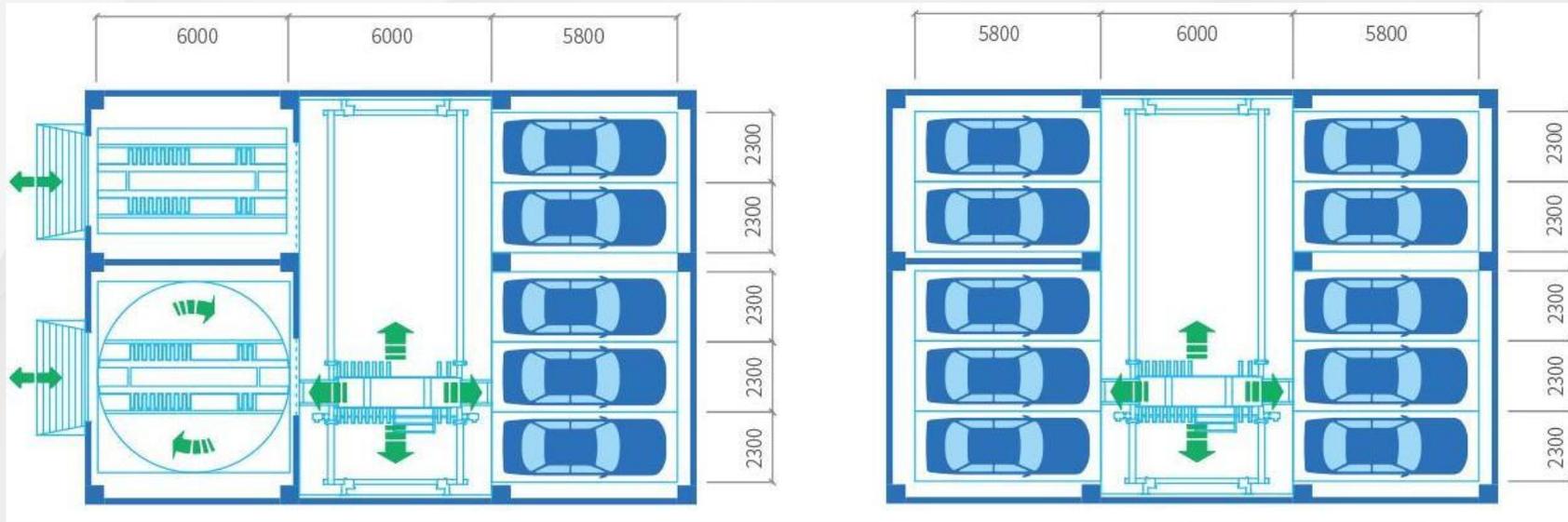
停车库剖面图

A section of a parking garage



# 立体停车库 three-dimensional parking garage

平面移动类  
The plane moving class



进出口层平面图  
Plan of Import and export floor

停车层平面图  
Plan of parking level

# 立体停车库 three-dimensional parking garage

## 平面移动类

The plane moving class

停车设备技术参数表（一）  
Parking equipment technical parameters  
table

设备型式 Type of equipment	PPY-12	
适停车辆尺寸 (mm) Suitable parking size	普通轿车 (长×宽×高) An ordinary car	≤5200 (长) ×1950 (宽) ×1550 (高) ≤5200 (Length) ×1950 (width) ×1550 (height)
	SUV车型 (长×宽×高) SUV	≤5200 (长) ×1950 (宽) ×1950 (高) ≤5200 (Length) ×1950 (width) ×1550 (height)
容车重量 Capacity weight	≤2350kg	
容车数量 Capacity	95辆	
进出库方式 In and out of the library	前进入库, 前进出库 Forward into the library, forward out of the library	
搬运型式 Type of handling	梳齿式或抱夹式 Comb type or clamp type	
控制方式 Control mode	采用PLC可编程控制, 中控室集中管理 PLC programmable control, central control room centralized management	
操作方式 Operation Mode	IC卡/触摸频/手机APP或扫码存取车 IC card/touch frequency/mobile phone APP or scan code access car	

# 立体停车库 three-dimensional parking garage

## 平面移动类

The plane moving class

### 停车设备技术参数表（二）

Parking equipment technical parameters table

速度与功率 Speed and power	升降机 Lift	升降速度: 0~90m/min (变频调速) Speed of rise and fall:0~90m/min(Frequency conversion speed regulation)
		功率: 22kw Power:22kw
	搬运台车 A trolley	横移速度: 0~60m/min (变频调速) Lateral velocity:0~60m/min(Frequency conversion speed regulation)
		功率: 2×2.2kw Power:2×2.2kw
存取车时间 Access vehicle time	平均取车时间 Average pick-up time	≤90s
	最大取车时间 Maximum pick-up time	≤120s
电源要求 Power requirements	动力部分 The power part	三相五线制AC380V/50HZ Three-phase five-wire system
	照明系统 Lighting System	AC220V/50HZ

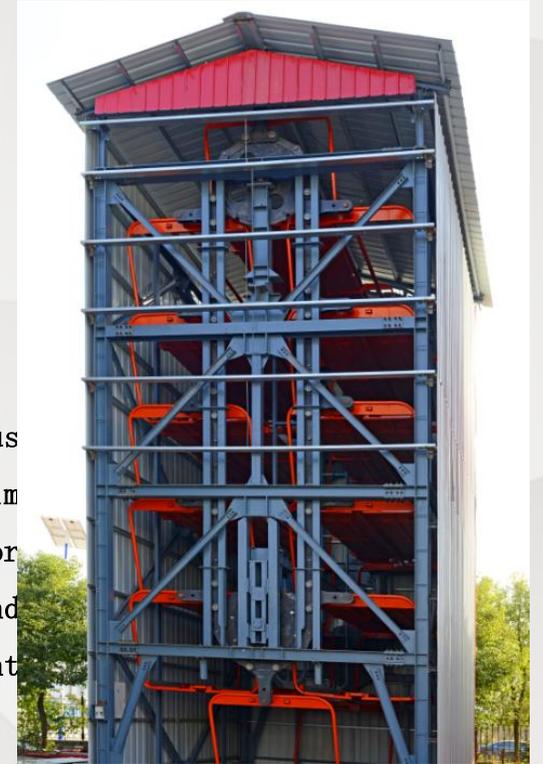
# 立体停车库 three-dimensional parking garage

## 垂直循环类 Vertical loop class

### 设备技术特点 Technical characteristics of the equipment

占地小，容量大，两台车的位置可停放12辆车；采用特制非标链传动机构，使震动和噪音减到最小；采用PLC控制，灵活简便，只需按键或刷卡操作；采用组合部件，装、拆便捷，安装期短，维修快捷；机械性能稳定，运行平稳，制动可靠；检测装置齐全，安全性高；可正进正出，存取车高效、方便。

Small footprint, large capacity, the position of two cars can park 12 cars; the use of a non-standard chain transmission mechanism, so that vibration and noise are reduced to a minimum. The utility model has the advantages of convenient assembly and disassembly, short installation period and quick maintenance, stable mechanical performance, stable operation and reliable braking, complete detection device and high safety, positive access and convenient



# 立体停车库 three-dimensional parking garage

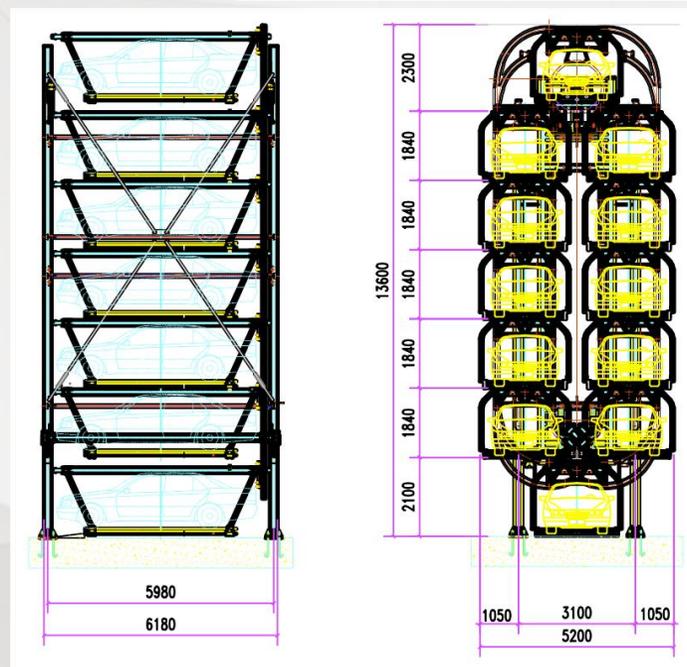
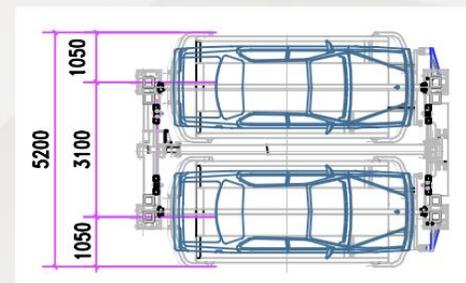
## 垂直循环类

### Vertical loop class

停车设备技术参数表

Parking equipment technical parameters table

设备型式 Type of equipment		PCXLT-7
容车规格 Capacity specifications	长度 (mm) Length	5300
	宽度 (mm) Width	1900
	高度 (mm) Height	1550
	重量 (kg) Weight	2000
容车数量 Capacity		12台
升降电机功率 Lift motor power		11Kw
升降速度 Speed of rise and fall		4.5m/min
平均存(取)车时间 Average access time		75s
升降驱动方式 Lift Drive mode		电机+链条 Motor+Chain
操作方式 Operation Mode		刷卡/按键方式 Swipe card/Key
电源及容量 Power supply and capacity		三相五线制 380V/50Hz 15KVA Three-phase five-wire system 380V/50Hz 15KVA





# 项目展示 Project Showcase

- 国内AGV项目
- Domestic AGV projects
  
- 国外AGV项目
- Overseas AGV Projects
  
- 立库项目
- LIBRARY PROJECT
  
- 立体停车项目
- Stereo parking project

## 国内AGV项目 Domestic AGV projects



一汽红旗  
FAW Red flag (automobile  
manufacturer)

项目亮点：  
完美的实现了整车的装配转运和EMS  
随动功能。  
Project highlights:  
perfect realisation of assembly  
transfer and EMS follow-on  
function for the whole vehicle.



诸城奥铃  
Zhucheng Auzheng

项目亮点：  
突破行业首例潜伏牵引车过3吨记录，  
做到5吨货物潜伏牵引。  
Project highlights:  
Break through the industry's first  
submerged tractor over 3 tonnes  
record, to do 5 tonnes of cargo  
submerged traction.



镇江中集  
Zhenjiang CIMC

项目亮点：  
实现首例AGV车在集装箱生产线的集  
中使用。  
Project highlights:  
Realisation of the first case of  
centralised use of AGV vehicles in a  
container production line.



上汽集团  
Shanghai Automobile Works  
(SAAW)

项目亮点：  
完成了AGV在汽车装备生产行业超大  
型模具的转运。  
Project highlights:  
Completed the AGV transfer of  
oversized feelers in the automotive  
equipment production industry.

# 国外AGV项目 Overseas AGV Projects



印尼项目  
Project in Indonesia

项目亮点：  
超低的设计结构，轻巧完成电子产品搬运任务。  
Project highlights:  
Ultra-low design structure, lightweight to complete the task of electronic product handling.



俄罗斯铁路  
Russian Railways

项目亮点：  
首次中国AGV产品进入俄罗斯国有企业系统。  
Project highlights:  
For the first time, Chinese AGV products entered the system of Russian state-owned enterprises.



俄罗斯军工  
Russian military industry

项目亮点：  
首次中国AGV产品进入俄罗斯国防部旗下航天系统。  
Project highlights:  
For the first time, Chinese AGV products entered the space system under the Russian Ministry of Defence.



佳宝（韩国）  
Jiabao (Korea)

项目亮点：  
疫情期间，完美解决了客户物流运输人手缺乏的问题。  
Project highlights:  
During the epidemic, the customer's lack of logistics and transport manpower was perfectly solved.

# 立库项目 LIBRARY PROJECT

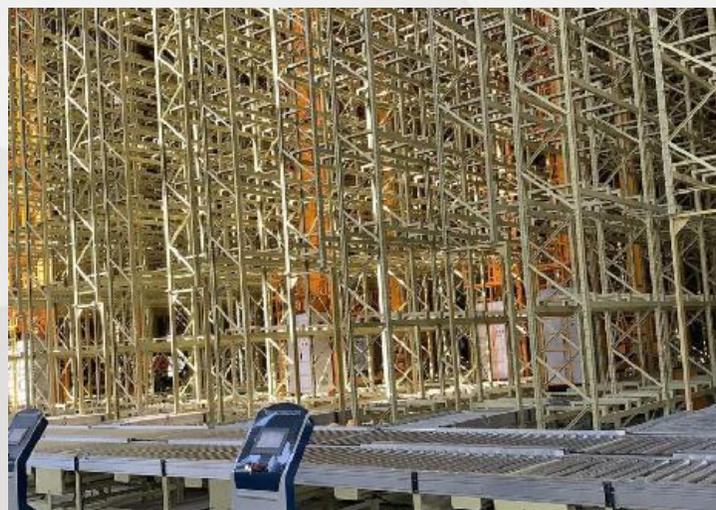
## 美大项目 Meda Project

### 项目亮点:

美大智能仓储项目包含三个系统的立库及输送：成品智能立体仓库（自制成品、外来成品）、配件智能立体仓库（外购件、空托盘组、空料箱组）、自制件智能立体仓库（自制件）。满足了美大公司智能仓库物料的输送、自动入库存储和自动分拣、自动出库配送，并且能够快速、准确的执行输送、入库、存储、分拣、出库、配送等动作。

### Project highlights:

Meida's intelligent warehouse project includes three systems of storage and conveying: Intelligent three-dimensional warehouse for finished products (self-made products, foreign finished products), Intelligent three-dimensional warehouse for spare parts (purchased parts, empty pallet group, empty box group), Intelligent three-dimensional warehouse for self-made parts (self-made parts). It meets the requirements of intelligent warehouse material conveying, automatic warehousing and storage, automatic sorting and automatic distribution, and can quickly and accurately perform the actions of conveying, warehousing, storage, sorting, distribution, and so on.



# 立体停车项目 Stereo parking project

## 项目简介(Project profile)

项目名称: 黄石磁湖东路立体停车库项目

Project name: Huangshi Cihu East Road three-dimensional parking

客户单位: 黄石城发停车管理有限公司

Client: Huangshi Chengfa Parking Management Co. , Ltd.

设备类型: PPY-6 平面移动类停车设备

Equipment type: PPY-6 planar mobile class parking equipment.

车位数量: 140个

Number of parking spaces: 140

竣工日期: 2020年11月19日

Completion date: November 19, 2020

## 项目亮点:

### Project Highlights:

本项目建在黄石市中心城区的繁华地段, 是黄石市城区智慧停车建设第一阶段的示范工程, 为公司大包承揽停车库建设工程之一; 本项目停车库于2021年被评为全国“十大优秀立体车库”之一。

This project is located in the downtown area of Huangshi Huangshi. It is the first stage of smart parking construction in the city The project named the national “Top ten excellent three-dimensional garage” one.



# 立体停车项目 Stereo parking project

## 项目简介(Project profile)

项目名称: 景泽睿苑小区智能停车库项目

Project name: Jingze Ruiyuan residential intelligent parking

客户单位: 山西凯宇综合开发有限公司

Client: Shanxi Kaiyu Comprehensive Development Co. , Ltd.

设备类型: PPY-2 平面移动类停车设备

Equipment type: PPY-2 planar mobile class parking equipment.

车位数量: 100个

Number of parking spaces: 100

竣工日期: 2021年6月11日

Completion date: June 11,2021

## 项目亮点:

### Project Highlights:

本项目属我司在地下室平面移动类智能停车库项目中首次采用抱夹式（机械手）智能搬运器，并设计有穿越车位；本项目自完工交付后，库内每天停车达 80 辆以上，工作效率高、性能稳定、设备状态良好，深得用户好评。

This project is the first time in the basement of the level mobile intelligent parking project, we use the clip-on (manipulator) intelligent across the parking space, the library parking up to 80 vehicles a day, high efficiency, stable performance, good condition of equipment, w





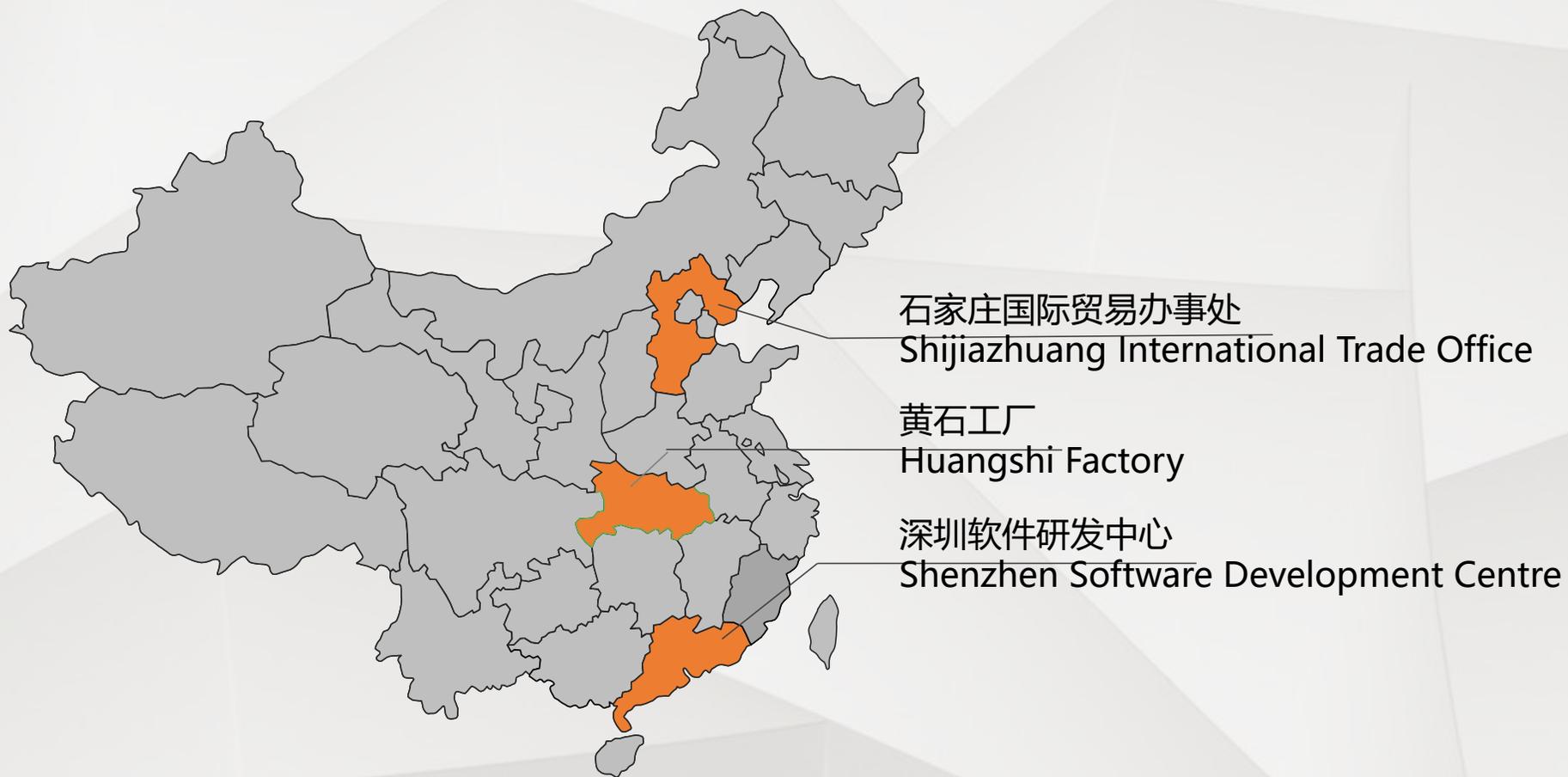
# 服务范围

## Scope of Services

- 服务网络
- service network
  
- 售后支持
- After-sales support
  
- 合作伙伴
- cooperative partner



# 服务网络service network



## 售后支持

After-sales support

### ➤ 本地化服务

配置专业化的本地服务团队，保证及时、高效、精致地服务客户。

### ➤ 多样化服务

售后团队通过电话、邮件、远程接入、现场服务等各种方式，协助客户完成现场支持、故障修复、现场巡查，经济回复等状况。

### ➤ 备品备件库

各分公司、办事处设有常用备件库，确保备件供应的时效性。

### ➤ 产品升级系统化服务

定期为客户提供软件更新服务；若客户硬件升级，我司提供咨询，规划预算，技术支持及配合服务。

### ➤ 七天二十四小时电话服务（13872076654）

7x24小时免费服务热线，随时服务，为客户排忧解难。

# 合作伙伴

Cooperative Partner

MEIDA 美大



华新水泥  
HUAXIN CEMENT



中国兵器工业集团  
NORINCO GROUP



上汽通用汽车  
SAIC-GM

YOFC  
Smart Link Better Life.

火星人集成灶



HOLIKE®  
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中核集团  
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autocraft

entive 亿田



SANY  
三一重工

中国中车  
CRRC



太阳纸业  
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Yanfeng  
Global Automotive Interiors

索菲亚® 衣柜  
— 定制家·索菲亚 —



国家电网

中轻集团  
SINOLIGHT



中国航天

云动力  
YUNNEI POWER

SHAREATE

容百控股  
RONBAY HOLDINGS



京东方  
BOE

中国烟草  
CHINA TOBACCO

NARI  
南瑞集团  
NARI GROUP CORPORATION

WANHUA

ADIENT



FOTON  
福田康明斯



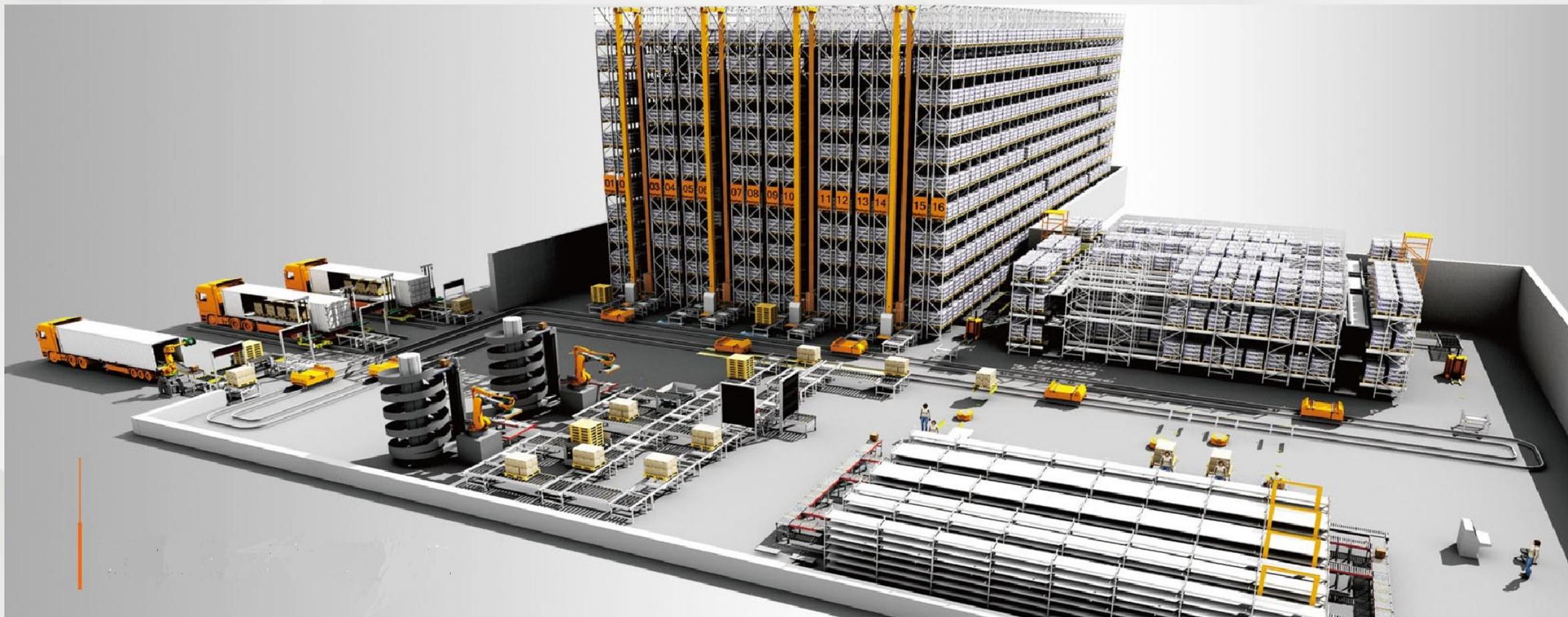
比亚迪汽车



弗吉尼亚

SEW  
EURODRIVE

谢谢  
thanks



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