

CASUN

Focus on the AGV Industry for 16 Years



Electronic



website



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Suzhou CASUN Intelligent Robot Co., Ltd.
CASUN Intelligent Robot GmbH

- Introduce ● 01—16
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- Course ●
- Advantage ●
- Honor ●
- Technology ●
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Enterprise service

VISION

Strive to be the world's leading AGV enterprise

VALUES

Customer-centric , struggler-oriented,innovation-psychical

MISSION

Make working and life easier and happier

Focus on the AGV Industry for 16 Years



ABOUT US

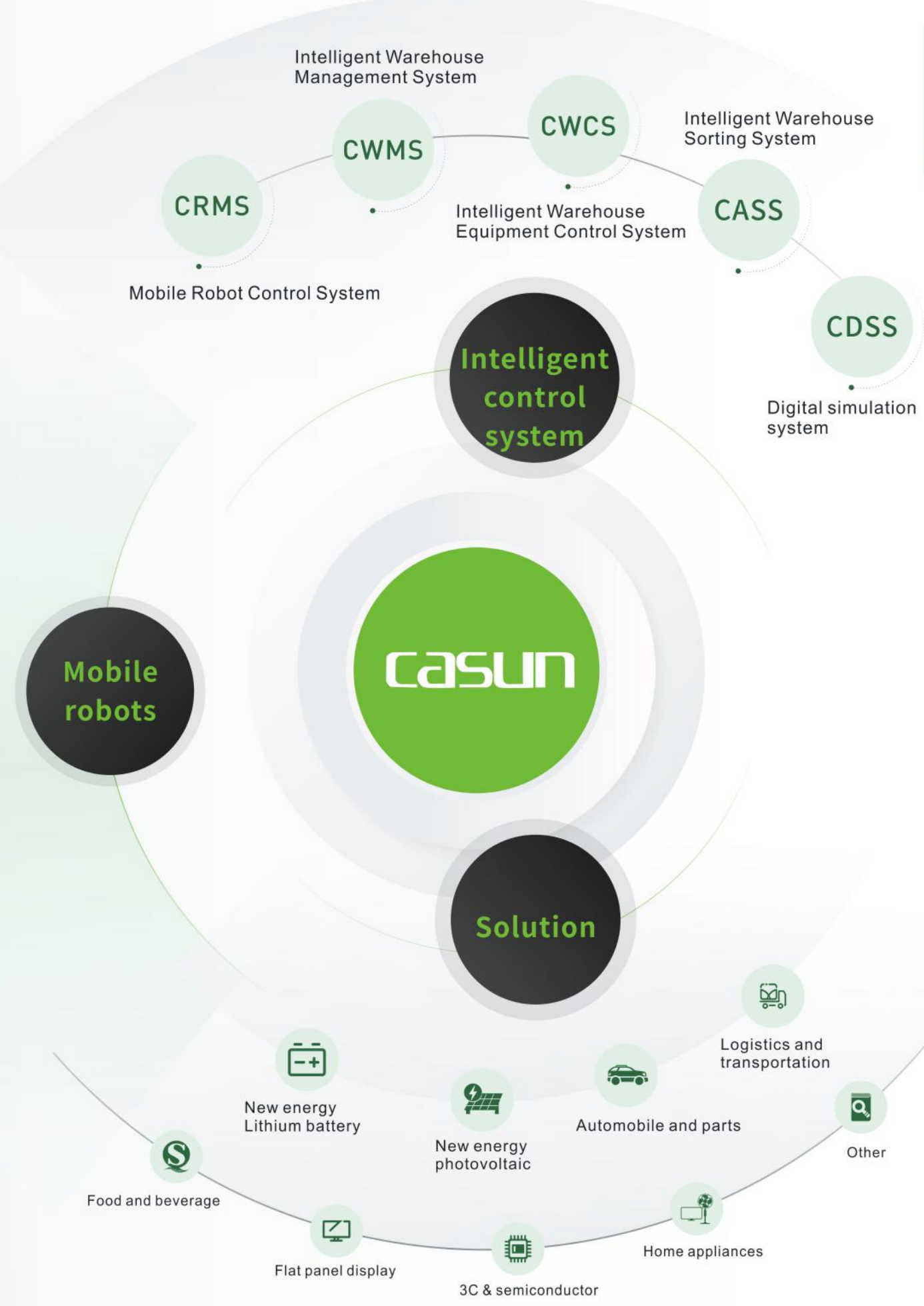
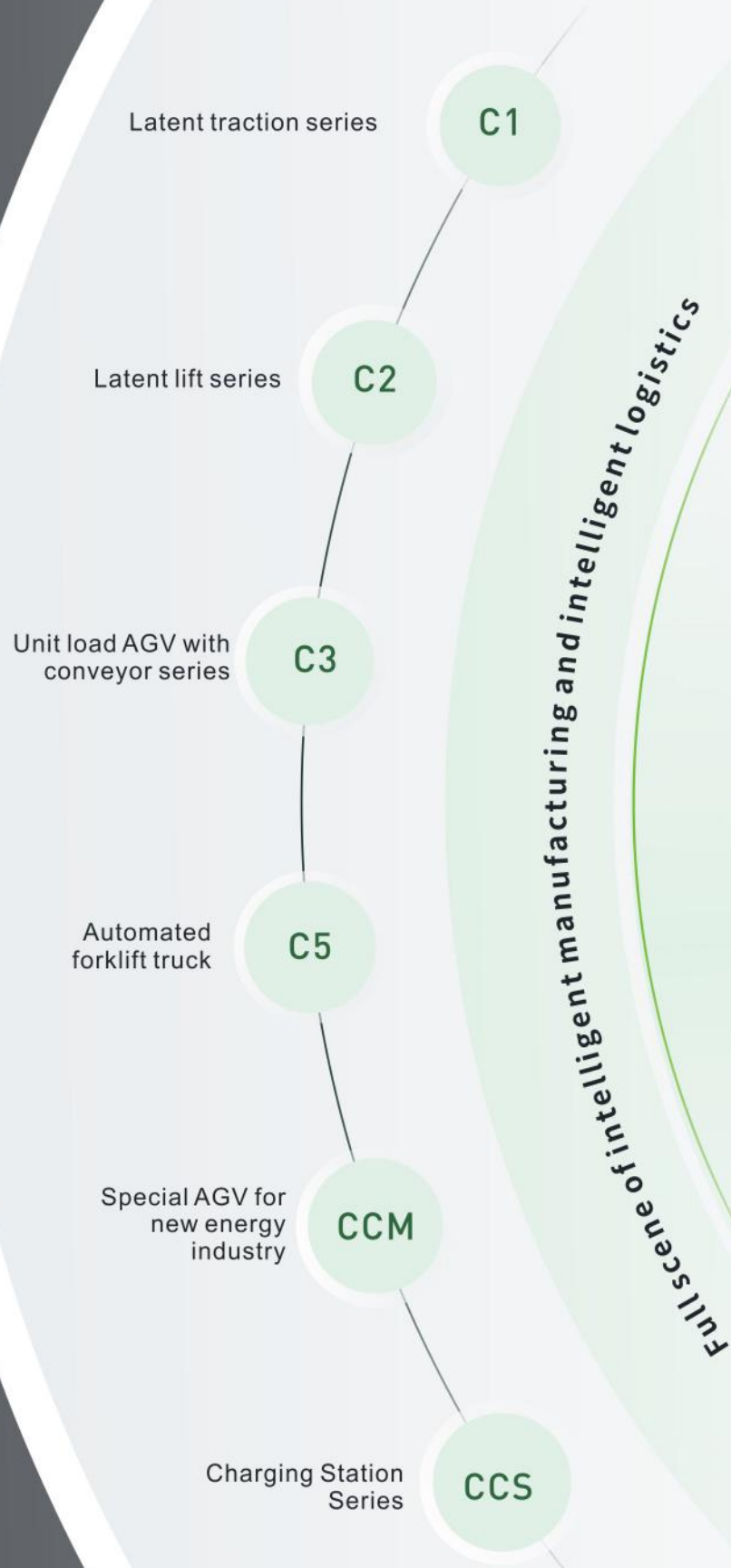
ABOUT US

Founded in 2007, CASUN is a NEEQ listed enterprise (stock code: 834863) which takes industrial mobile robots, intelligent control systems and intelligent logistics solutions as its core products and dedicates to R&D, production, planning, sales, implementation and operation and maintenance. Its business network has covered the world, setting up 28 domestic companies and offices, global 30+ agents, and building a wholly-owned subsidiary in Germany. After 16 years of growth and development, CASUN has become a leading brand in the field of mobile robots in China.

Adhering to the technology line of independent research and development, CASUN has achieved 120+ invention patents and other kinds of intellectual property rights. It has been awarded the "National high-tech Enterprise", selected in the list of "Jiangsu Province specialized and special new small and medium enterprises", "Guangdong Robot Cultivation Enterprise", "Guangdong Intelligent AGV Mobile Robot Engineering Technology Research Center", "Shenzhen Enterprise Innovation Record", "Shenzhen Top 100 Independent Innovation Small And Medium Enterprises", "Shenzhen Top Ten Robot Brands", "Lithium Thought Award -2022 Excellent Service Enterprise", "Excellent Brand Award of High-tech Industry Annual Benchmark Product in 2022", "Capek Value Brand Annual Award", "Recommended Brand of Logistics Technology Equipment of China Federation of Things Equipment Committee, Excellent technical equipment Supplier of Automotive Logistics Industry", And through the ISO9001 system certification, CE certification, China robot product testing certification (CR certification) and other honorary qualifications.

Up to now, CASUN has completed and delivered more than 2800 comprehensive solutions, and products have been widely used in new energy lithium battery, new energy photovoltaic, automotive and spare parts, logistics, food and beverage, flat panel display, 3C and semiconductor, household appliances and other industries, favored by well-known enterprises at home and abroad.





CORE BUSINESS
CORE BUSINESS

START



- 2007 ● CASUN Intelligent was established in Shenzhen;
- 2011 ● Established Xian, Wuhan, Suzhou, Chongqing 6 offices nationwide, and set up domestic service network ;
- 2011 ● CASUN's first generation "AGV Central Management System" has been successfully developed.



DEVELOPMENT HISTORY

- 2013 ● Batch application of laser navigation forklifts ;
- 2015 ● CASUN Intelligent successfully landed on NEEQ as the first stock of mobile robot field ;
- 2015 ● Set up German subsidiary in 2019, leading Chinese mobile robot brands to go abroad ;
- 2018 ● Established Xi 'an software research and development center , and launched the second-generation AGV intelligent management and scheduling system based on B/S architecture in 2019
- 2019 ● The project in Romania won the title of "Lighthouse Factory"
- 2019 ● Launched "CASUN software application platform", applied to digital floor logistics solutions.



CULTIVATE

BREAKTHROUGH



- 2020 ● CASUN won the "Shenzhen Top 10 Robots Brand Enterprise";
- 2021 ● CASUN entered in the list of "2021 Annual Guangdong Province Engineering Technology Research Center" successfully .
- 2021 ● CASUN finished batch application for SLAM navigation based on multi-line laser radar.
- 2021 ● CASUN achieved nearly RMB one hundred million financing, which helps the company high-speed develop;
- 2022 ● CASUN moved the plant to Suzhou as the new headquarters base, optimizing the company's strategic layout, to to bring up comprehensive competitive strengths of the company;
- 2022 ● CASUN launched 3 types of AGVs for applying in the pre-process of lithium battery, developing of new energy lithium electricity industry deeply;
- 2022 ● CASUN entered in the list of "Specialization, New small and Medium-sized Enterprises in Jiangsu province";
- 2022 ● CASUN built the new headquarters base in September,2022 , the new base covers an area of over 20,000 square meters with an investment of over 500 million;
- 2023 ● CASUN passed the ISO14001 environmental management system and ISO45001 occupational health and safety system standards review.

8+

Strong industries - lithium, photovoltaic, automotive, logistics, food, flat panel display, energy storage, semiconductor

16+

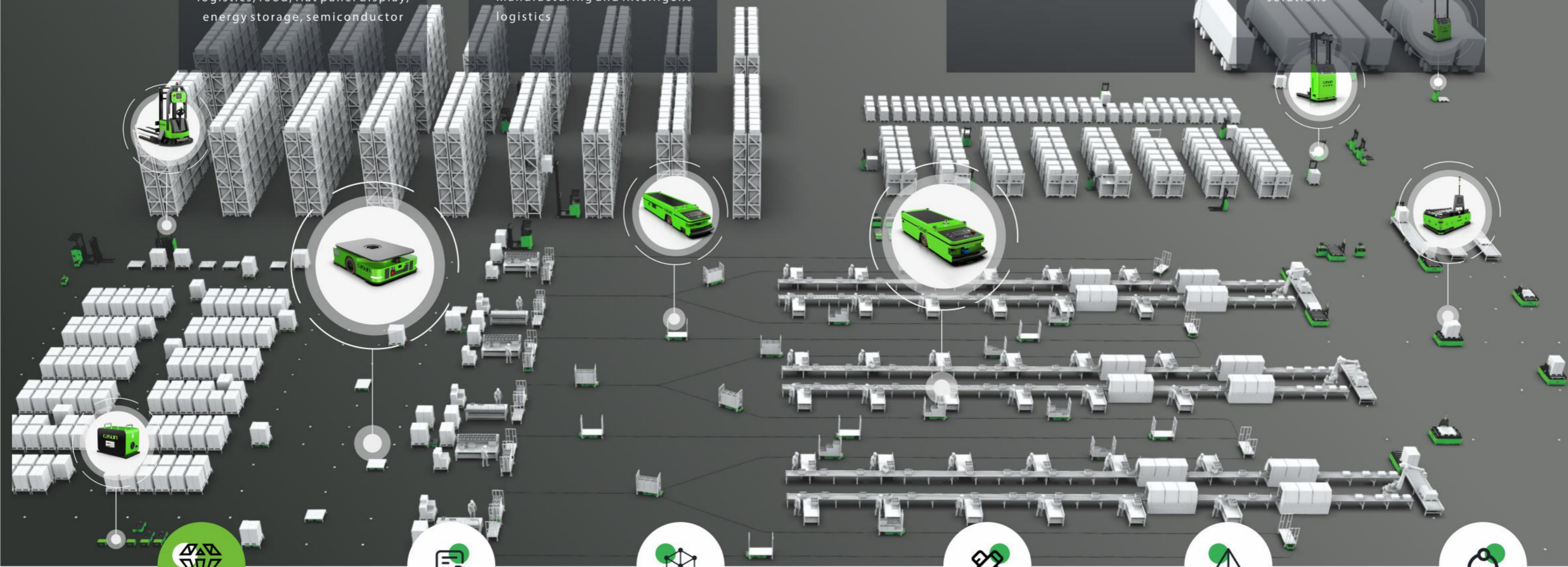
16 standard products are covered Full scene of intelligent manufacturing and intelligent logistics

50+

Service network around the world 28 offices 30+ global agents

2800+

Completed and delivered more than 2800 comprehensive solutions



COMPETITIVE STRENGTHS

Rich implementation experience

Focusing in AGV industry, rich application cases, comprehensive coverage of customers in all industries, rich implementation experience.

Comprehensive product technology

CASUN has 5 generations of navigation control systems and full categories of products, covering the full scene of intelligent manufacturing and intelligent logistics.

Strong ability to innovate and customize

Professional and innovative technical team, constantly upgrading and iterating the whole series of products, leading the layout of forward-looking technology.

Stable quality and cost

Mature and stable supply chain system, quality, delivery time and cost advantage guaranteed;

Steady core team

Pragmatic and stable management team, with a clear strategic planning and market positioning. Efficient coordination and tacit cooperation.



HONOR AND CERTIFICATION



Selected in the "Jiangsu 2022 SRDI" list

Selected for the "2021 Industrial Application Mobile Robot Lithium Industry Lighthouse Award"

China Robot Product Inspection Certification (CR Certification)

Guangdong Intelligent AGV Mobile Robot Engineering Technology Research Center

Top 10 System Integrators in lithium industry 2021

Guangdong Robot Cultivation Enterprise

Top10 robot brands in Shenzhen

2022 Equipment Committee of China Federation of Things - Recommended brand of logistics technology equipment

"Excellent Case Award" in 2022 Intelligent Logistics Industry

"CE certification" in the European Union

"Capek" Value Brand of the Year award

Patents and other intellectual property rights

Exclusive title: Blue Book of AGV/AMR Solutions for New Energy Industry (2022 edition)

Joint participation 《2022 Blue on Robot Application and Development in lithium Industry》

Automotive Logistics Industry Innovation Award 2022

Innovation Product Award in New Energy Lithium industry 2021

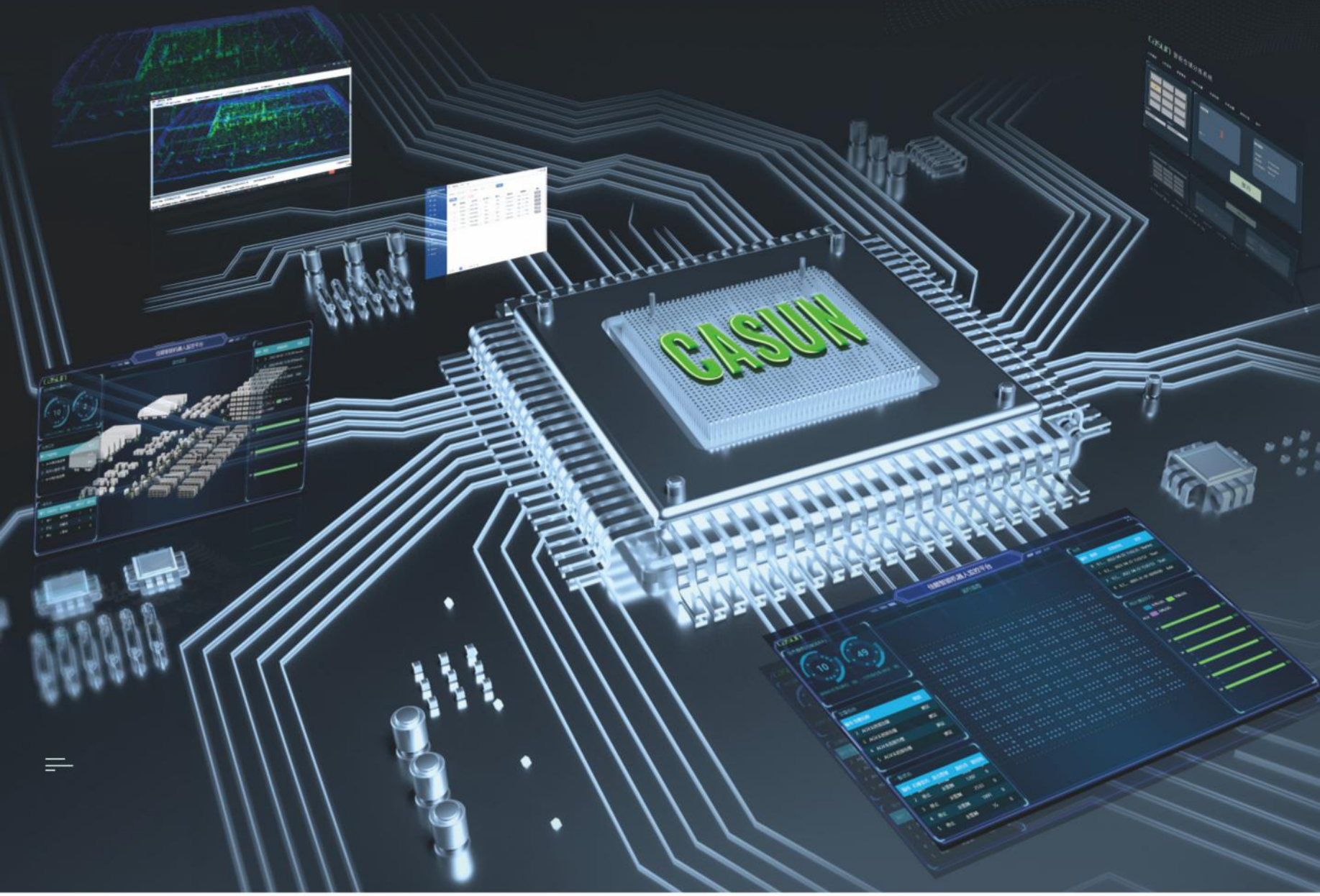
Shenzhen enterprise innovation record

2021 全国家居物流优秀案例奖





R&D STRENGTHS



Comprehensive AI motion algorithm

Mature magnetic navigation, QR code navigation, laser navigation, SLAM navigation together with visual navigation applications successfully.

Powerful intellisense technology

CASUN vigorously promotes the trackless development of image recognition technology, including: visual synchronous positioning and map construction technology (V_SLAM), three-dimensional space positioning technology of multi-line lidar, real-time detection technology of orbital laser vision, automatic correction technology of visual positioning, outdoor robot guidance technology of satellite positioning, etc.

Control system platform

CASUN intelligent control platform includes: mobile robot control, intelligent storage location management, intelligent storage equipment control, intelligent storage sorting, digital simulation five systems; The independently developed intelligent AI storage location management system (Storage Eye System) has also been applied.

Gathering of high-tech talents

By optimizing the talent team, CASUN has strongly introduced high-level talents. At present, the talents with bachelor degree or above account for more than 50% of the total number of employees in the company, including about 38% of scientific and technological personnel.

Forward-looking technology layout

At present, in order to cope with the upgrading of intelligent logistics demand, CASUN Intelligent layout in advance in AI intelligent algorithm, digital twin, unmanned driving, robot vision, human-computer interaction, industrial cluster and big data platform and other technical fields, technology precipitation, application upgrade.



**SERVICE
GLOBALIZATION**

5

R&D centers



Suzhou



Shenzhen



Shanghai



Chengdu



Xi'an

28

Service network

Headquarter: Suzhou, Shenzhen

Changshu, Wuxi, Nanjing, Changzhou, Hefei, Nantong, Shanghai, Ningbo, Guangzhou, Huizhou, Foshan, Dongguan, Zhuhai, Fuzhou, Wuhan, Zhengzhou, Changsha, Nanchang, Chengdu, Chongqing, Qingdao, Xi'an, Beijing, Tianjin, Urumqi, Shenyang

30⁺

Global Agent

USA, Mexico, Brazil, Chile, UK, Ireland, Germany, France, Czech Republic, Ukraine, Romania, Turkey, Russia, South Africa, India, Vietnam, Thailand, Malaysia, Singapore, Indonesia, Philippines, South Korea, Japan, Australia, Taiwan, Hong Kong, China...



CASUN Intelligent has completed and delivered 2800+ comprehensive solutions, and delivered a total of 20,000 + mobile robots of various types. The business covers more than 50 comprehensive industries, including new energy lithium battery, automobile and parts, flat panel display, food and beverage, logistics, 3C and semiconductor, photovoltaic, home appliances and other industries. At the same time, CASUN Intelligent deployed global market since 2011, there are more than 50 subsidiaries and offices at home and abroad, forming a huge global service network.



<p>New energy Lithium battery New energy photovoltaic</p>	
<p>Automobile and parts</p>	
<p>Logistics and transportation</p>	
<p>Food and beverage & Flat panel display</p>	
<p>3C & semiconductor Home appliances</p>	
<p>Aggregator</p>	
<p>Others</p>	




02

PROJECT SOLUTION



 New energy Lithium battery

 New energy photovoltaic

 Automobile and parts

 Logistics and transportation

 Food and beverage

 Flat panel display

 3C & semiconductor

 E-commerce express

 Home appliances

 Household textile

NEW ENERGY LITHIUM BATTERY

CASE VIDEO



Requirement points

Industry Overview

With the rapid growth of the output of new energy electric vehicles, China's lithium battery industry continues to maintain a rapid growth trend, and the industry innovation is accelerating. At the same time, lithium battery manufacturing process from automation to intelligent high-speed transformation. Industrial mobile robot AGV/AMR has been introduced on a large scale to replace the traditional process in the front, middle and rear stages of the process, improve the flexibility and efficiency of the production line, stabilize the quality and delivery time, and form a data closed loop for process tracking.

Industry trends

- 01 New energy vehicles, low carbon environmental protection requirements and energy crisis push up the development progress of lithium electric industry
- 02 The policies for industry investment and financing are loose, and leading enterprises lead the expansion and expansion strategy
- 03 The popularization of the concept of de-artificialization in logistics operation links and the strong demand for flexible manufacturing
- 04 The mature application of mobile robots in the early, middle and late stages promotes the development of industry standardization

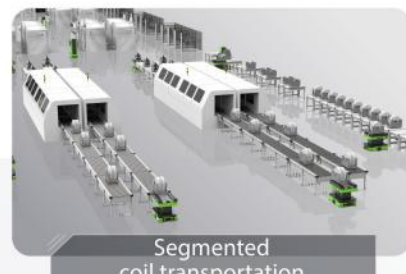
partenr



Transfer and dock the foil



Laying-off coil after cutting



Segmented coil transportation



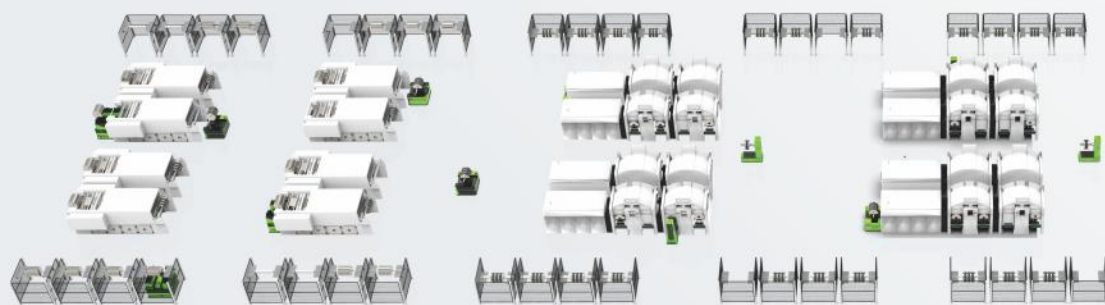
Battery assembly & testing



Pack output



Pack storage



解决方案

Solution advantage

- Improve space utilization rate**
the space is small, and the introduction of AGV/AMR flexible line can replace the traditional large conveying line
- Flexibility**
AGV/AMR can complete route and process changes by changing procedures.
- High fault tolerance**
AGV/AMR has the function of mixed-line transportation
- Fast fault recovery**
When AGV/AMR fails, they can be restored manually or automatically.

Economic benefits

Reduce manpower input **20%** Improve production turnover efficiency **20%** Investment recovery cycle **1.5-2** YEAR

Solution composition



NEW ENERGY PHOTOVOLTAIC

CASE VIDEO



Requirement points

Industry overview

With the global fossil energy (oil, coal) increasingly close to exhaustion, climate warming ecological environment, countries around the world on the use of clean energy and carbon emission standards under strict requirements, photovoltaic power generation will become an important channel of energy output. In recent years, the application and development of photovoltaic energy storage technology is advocated vigorously by our country, and the industrial scale is expanded constantly. No matter in core technology, product manufacturing, equipment, or in market development, installation and service, it has a certain industrial chain with independent intellectual property rights, some of which have reached the international leading level. As an essential link in intelligent logistics, mobile robots are widely used in the photovoltaic industry, which greatly reduces the labor cost of logistics transportation and promotes the development of intelligent logistics.

Industry trends

01

The mobile robot can realize the intelligent transportation of the photovoltaic industry's materials automatically on/off the line and in the middle of the transfer, and realize the unmanned automatic transportation;

02

Intelligent transportation also has systematic management, data traceability, improve management level;

03

By means of multi-system connection and integration, it can solve the problems of accuracy and efficiency of material transportation in each production line.



partner

Solution advantage

Enhance productivity

Automatic transfer of multiple production processes, efficient completion of transportation tasks.

Intelligentize

Improve the degree of intelligence, realize intelligent logistics.

Reduce labor intensity of personnel

Automatic delivery of heavy materials to work stations.

Economic benefits

Reduce manpower input **30%**

Improve production turnover efficiency **20%**

Investment recovery cycle **1.5-2** YEAR

Solution composition

System
CRMS+CDSS

C2

C3

C5

CCS



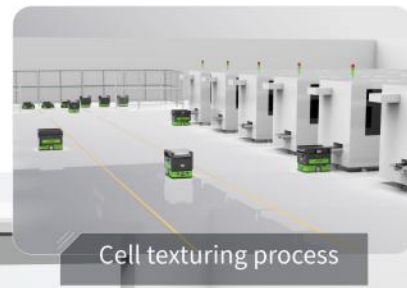
Automatic transfer in process shop



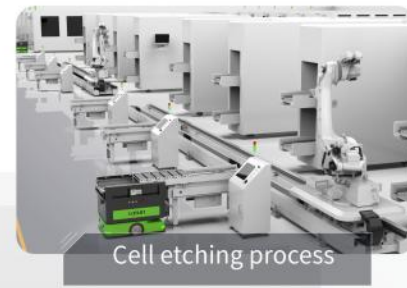
Cell coating process



Cell laser process

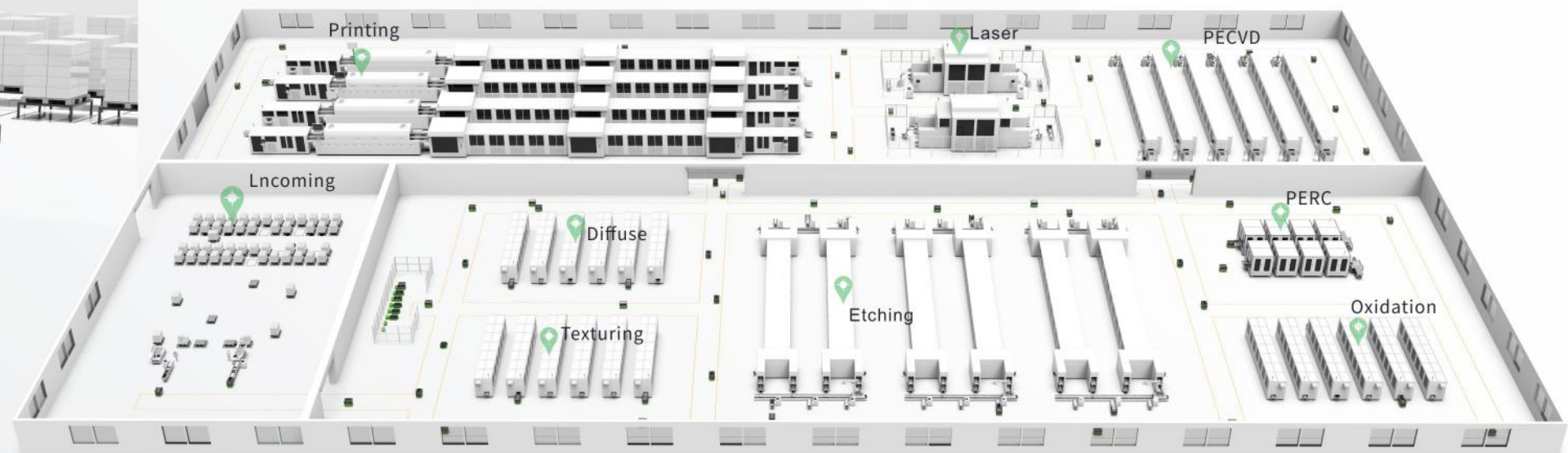


Cell texturing process



Cell etching process

Folding of incoming battery material



AUTOMOBILE AND PARTS INDUSTRIES

CASE VIDEO



Requirement points

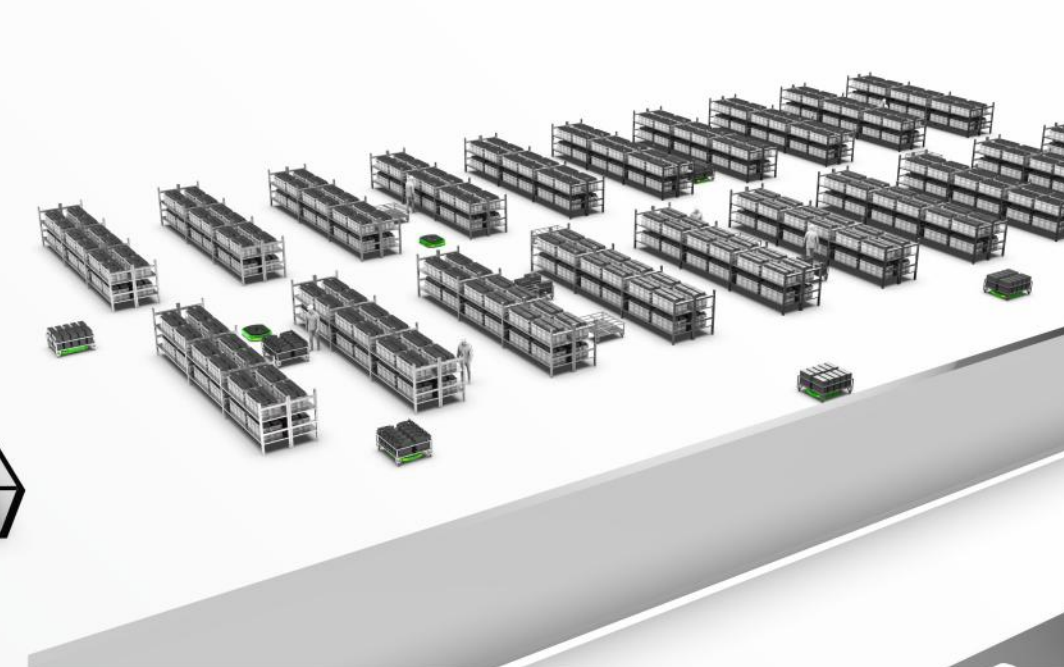
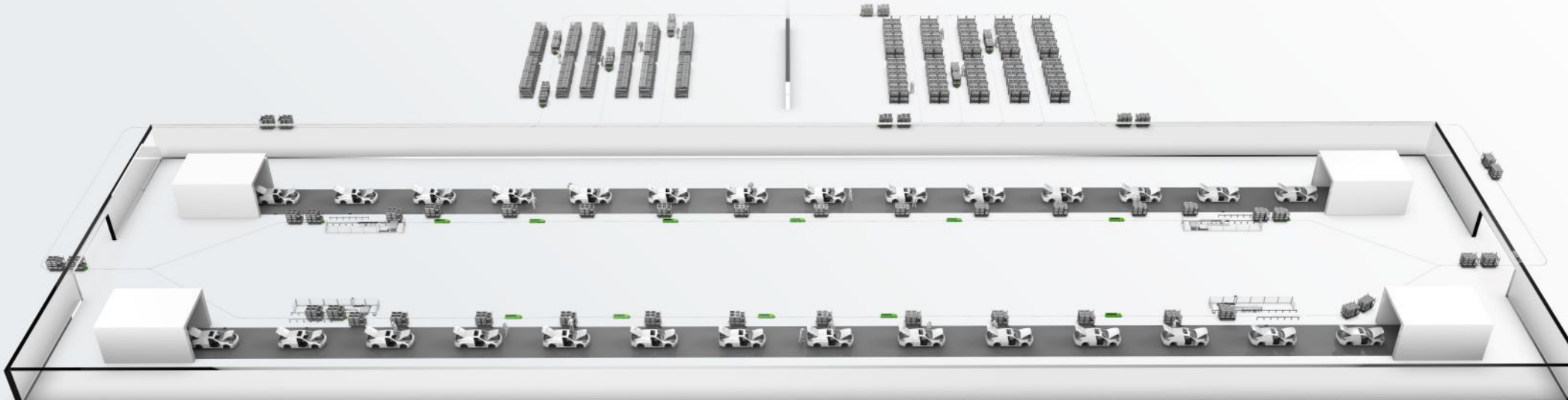
partenr

Industry overview

Under the background of electric and intelligent automobile, domestic automobile manufacturers have begun to carry out transformation and upgrading of flexibility, agility, intelligence and information technology. As a standard configuration to achieve flexible manufacturing and flexible assembly, mobile robots play an important role in the automobile and parts industry, helping the industry logistics upgrade from automation to intellectualization.

Industry trends

- 01 The production process of automobile industry is fixed, with high degree of standardization and automation, and intelligent transformation is convenient
- 02 The automotive industry has more than 10 years of experience in the use of mobile robots, and AGV/AMR has become a standard equipment
- 03 The overall production capacity of the automobile industry is high, and the demand for industrial mobile robots is large
- 04 Improve the automation and flexibility of entire automobile manufactures and improve per capita efficiency



smart logistics solution

Solution advantage

- Improve production efficiency: automatically and efficiently fulfill capacity requirements
- Improve the degree of automation: realize intelligent logistics and flexible manufacturing to meet the needs of personalized customization.
- Reduce labor intensity: automatically send heavy materials to work stations

Economic benefits

- Optimize and reduce stock preparation and replenishment employees by more than **20%**
- The accuracy rate of outbound shipments can be improved to **100%**
- Timely rate for supply of parts to the production line can reach to **100%**
- Reduce the area of warehouse management by more than **20%**

Solution composition



FLAT PANEL DISPLAY INDUSTRIES



Requirement points
partenr

Industry overview

The increasing consumer market stimulates the domestic flat panel display industry to develop towards the direction of large screen size and diversified functions. The panel design is diverse, the process is complex, the cross-line production switch is frequent, and the flexible production of enterprises requires the production line data information flow to be higher and higher. AGV/AMR gives the answer to intelligent production and transportation, enabling flat panel display enterprises to provide intelligent logistics comprehensive solutions

Industry trends

- 01 Panel sizes are different. Micro LED and Mini LED have become the mainstream trend.
- 02 Different needs of vehicle, wearable, home appliances and industrial applications are the trend of personalized customization.
- 03 The process of different products is different, and cross-line production is frequently switched. Flexible production has become the general trend.
- 04 The types of raw materials are increasingly complex, and the requirements for fine management of warehousing and logistics are increasingly high.
- 05 Increasing labor costs make management more difficult.



Transshipment of semi-finished products across floors



The POL offline to transport to the warehouse



Polarizer ATL transport



Polarizer ABL transport



Polarizer DAL online



smart logistics solution

Solution advantage

- Real-time data monitoring**
the status of material information can be reported in real time to ensure the integrity of the data chain and form a closed data loop.
- Flexible process connection**
cutting machine quickly, making production scheduling more flexible, to meet the diversified production mode.
- Reduce labor cost**
reduce material damage in the handling process, thus achieving cost reduction and efficiency increase

Economic benefits

Reduce the operating costs by **26%** | The damage rate of defective materials in the handling process is reduced by **90%**

Solution composition



3C & SEMICONDUCTOR INDUSTRIES

CASE VIDEO



Requirement points

partner

Industry overview

With the development of "individual media", the extension of online services, and the trend of personalized and private consumption have continuously upgraded the demand for 3C products in China. Manufacturers in all aspects of the 3C field have an urgent demand for automatic transformation, and flexible assembly lines and intelligent three-dimensional warehouses have entered a stage of rapid development. The huge annual output value and volume of 3C electronics industry provide a huge market capacity for mobile robots; The contradiction between a large number of labor needs and recruitment difficulties promotes the intelligent upgrading of the whole industry.

Industry trends

- 01 3C electronics needs flexible logistics system to realize material transfer between multiple processes, while AGV/AMR can be adjusted timely with the change of production process flow.
- 02 The low cost and high efficiency of mobile robots can relieve the recruitment pressure caused by the increasing shortage of human resources.
- 03 Real-time collection and reporting of production process data to solve the problems of precision and efficiency of material transportation in each production line.



smart logistics solution

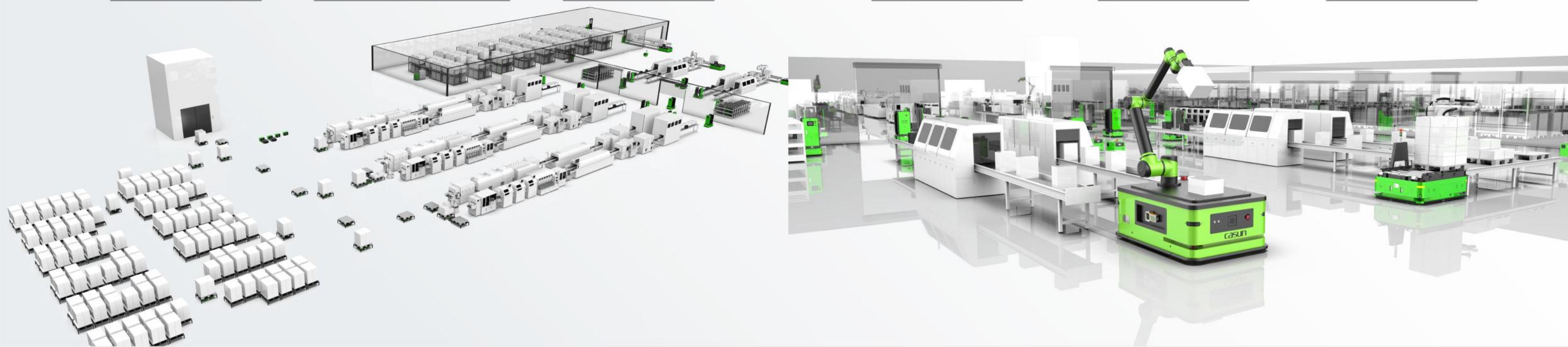
Solution advantage

- Flexible transportation**
AGV/AMR can complete route and process changes by changing procedures
- High work efficiency**
24H uninterrupted work all day to meet the demand of production capacity
- High safety dependence**
AGV/AMR carrier implements whole-process control with low error rate

Economic benefits

Save labor force of factory logistics by **40%** | Improve the efficiency of picking and distribution in warehouse, and increase the efficiency of picking by **30%**

Solution composition



LOGISTICS AND TRANSPORTATION INDUSTRIES



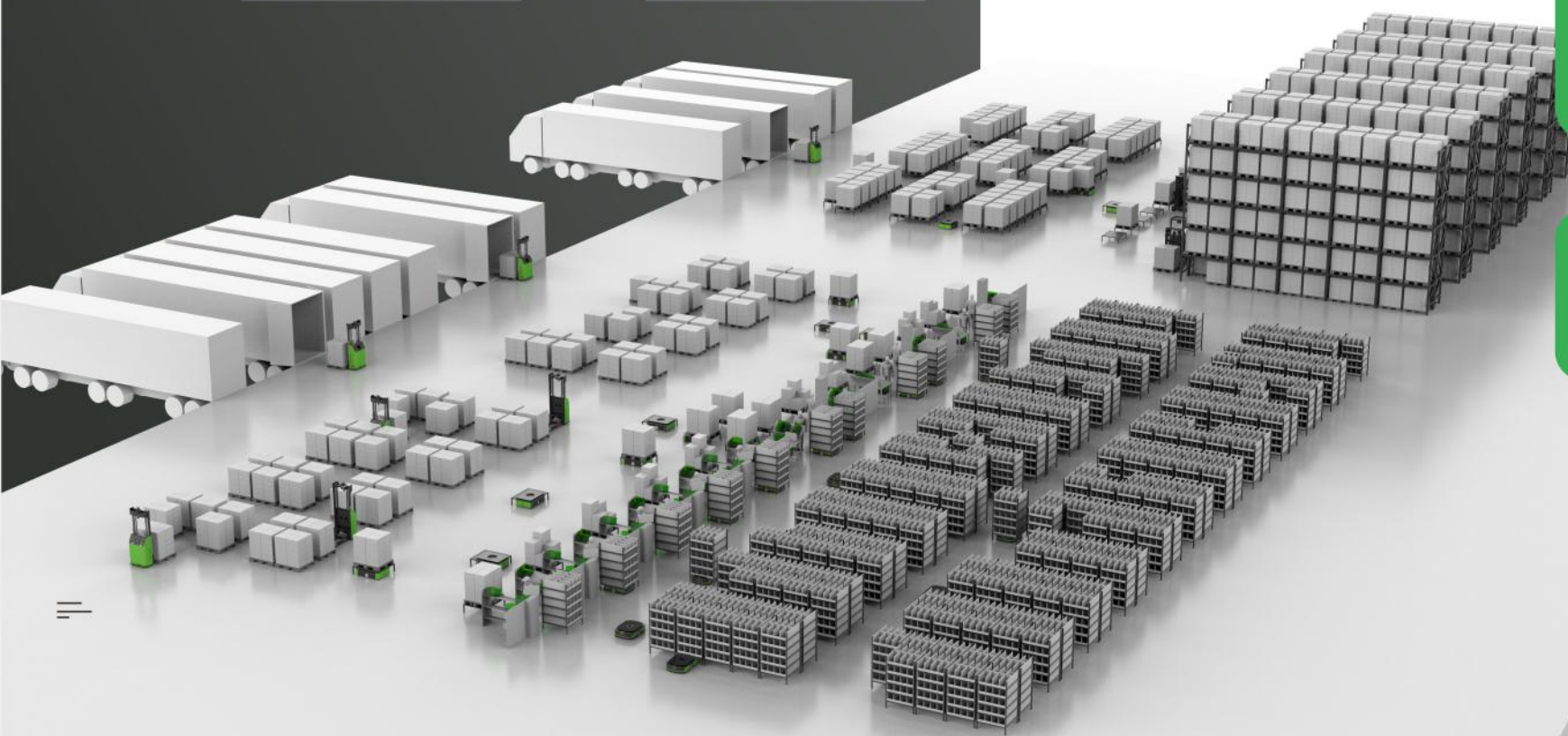
Cross-floor raw material distribution



Cross-floor raw material distribution



Cross-floor raw material distribution



Requirement points

Industry overview

In recent years, with the support of national policies, logistics, cold chain fresh distribution and e-commerce logistics are developing rapidly towards intelligent logistics, and the industry is placing more emphasis on operational efficiency and benefit. As an essential part of intelligent logistics, mobile robots are widely used in the logistics industry, which greatly reduces the labor cost of the logistics circulation industry and promotes the development of intelligent logistics.

Industry trends

- 01 Logistics robots provide intelligent and unmanned transportation from products to materials, such as automatic on-line, automatic offline, and intermediate transfer, and solve the problem of low efficiency in transportation and sorting of materials
- 02 To meet the industry demand for cost reduction and efficiency increase, fully intelligent management can improve the management level and effectively avoid a series of factors such as inefficient personnel management
- 03 Large volume of business requires data tracking: product data management and material information traceability
- 04 The industry has high requirements for storage capacity. Mobile robots can meet the requirements of narrow tunnels and high shelves for compact storage layout, saving space costs.

smart logistics solution

Solution advantage

- High work efficiency**
24 hours without shutdown, can intelligently realize loading and unloading materials, independent transportation and intelligent sorting; Multiple scheduling algorithms support different sorting scenarios
- Improve management efficiency**
realize fully intelligent material flow, dynamic prediction, storage location heat statistics and management
- High reliability**
the whole process is recorded, tracked and retrieved to reduce the frequency of misoperation

Economic benefits

Increase space utilization rate by **40%** Increase the overall inspection and checking capacity by **30%**

Solution composition

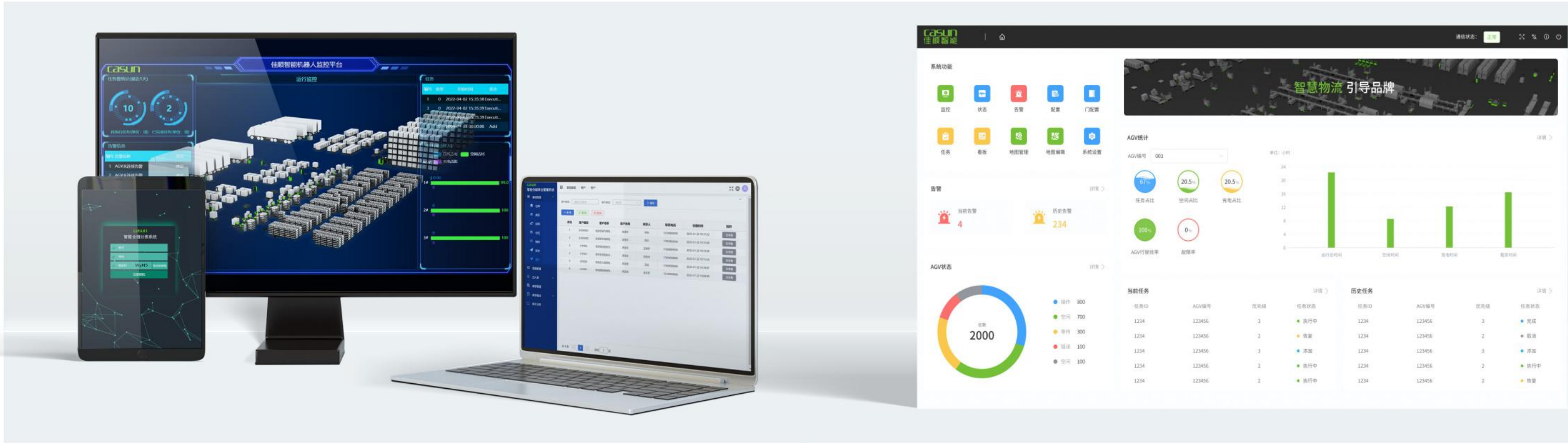


partner



CASE VIDEO



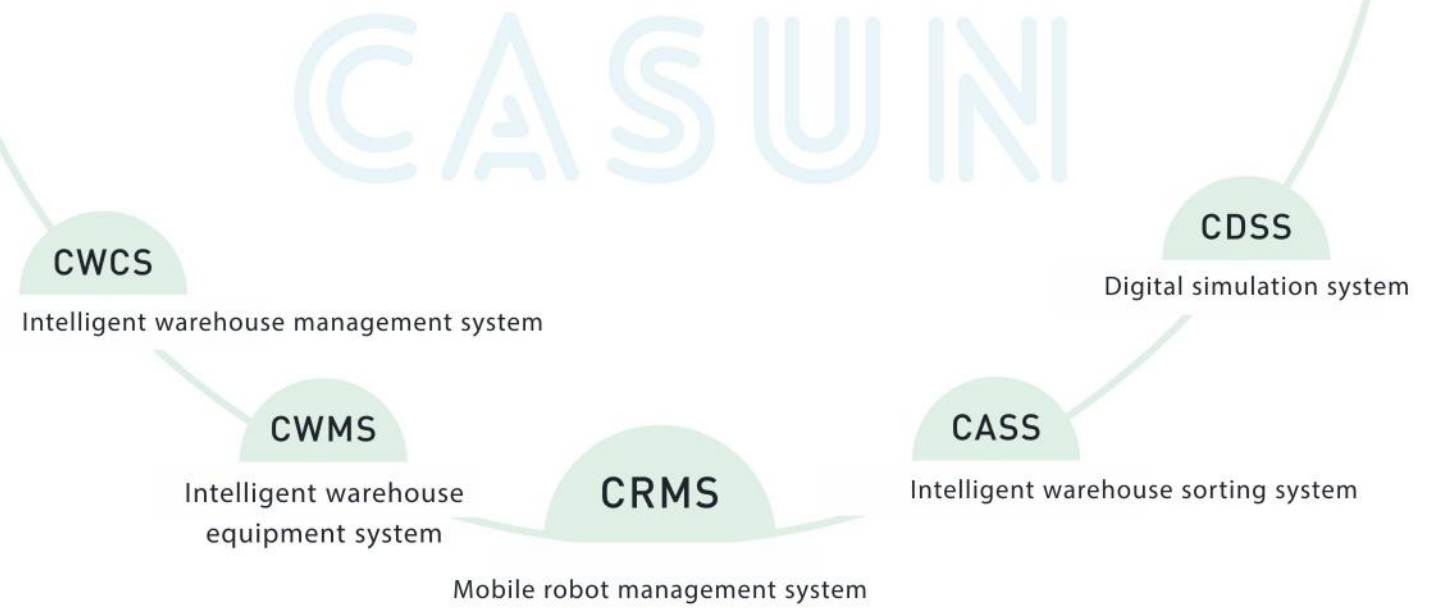


03 INTELLIGENT CONTROL SYSTEM

CASUN robot software platform is composed of CRMS mobile robot control system, CWMS warehouse location management system, CWCS warehouse equipment control system and CDSS digital simulation system.

Warehouse location management system can realize intelligent warehouse management at low cost; Through the storage equipment control system, it can realize the control of all kinds of automatic logistics equipment; The robot control system can be connected with the enterprise upper system or warehouse related system upward, and control the AGV/AMR downward to achieve efficient handling. Through the digital simulation system, potential problems can be found in the design and planning stage to ensure efficient project delivery.

Several major systems work together to deliver high quality digital logistics products for customers.





CASUN system functions

BS architecture

Web-based operation and maintenance platform, simple and convenient operation, maintenance personnel quickly start.

Cluster scheduling

Based on the deep accumulation of a large number of project implementation, as well as powerful AI algorithm, to ensure efficient execution and scheduling of AGV/AMR clusters.

Storage location management

Comprehensive storage management function, flexible modular design, to meet the various needs of intelligent storage.

Warehouse control management

Coordinate all kinds of logistics and automation equipment in warehouse, dispatch and monitor the equipment uniformly.

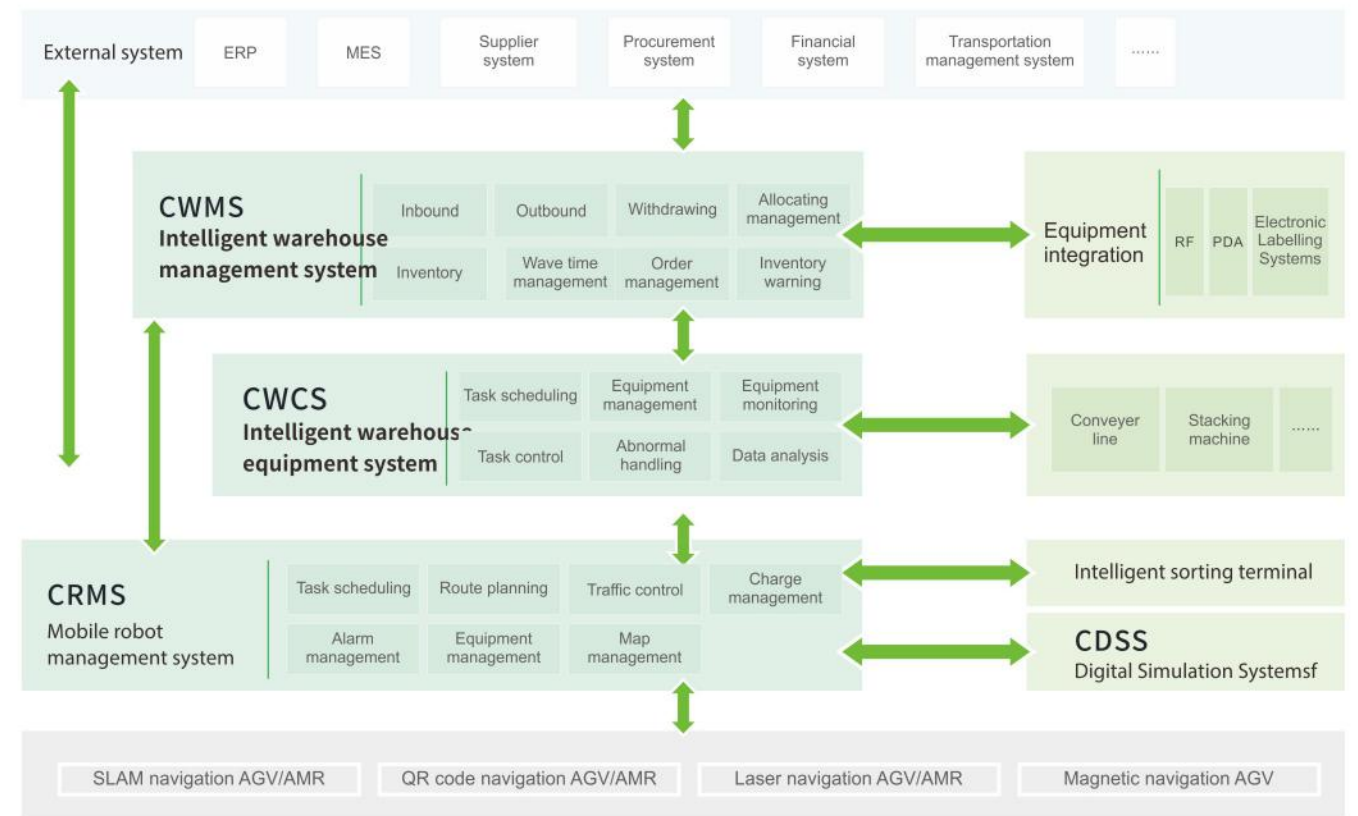
Intelligent sorting

Warehouse management is deeply combined with AGV/AMR cluster scheduling, with intelligent sorting terminal, to achieve efficient sorting requirements.

Digital simulation

The process can be digitally simulated to find potential problems early and improve project delivery quality.

CASUN system architecture diagram



04

MOBILE ROBOT



FEATURES

CASUN intelligent mobile robot is an intelligent robot with self-organization, independent operation, independent planning, dynamic decision-making, behavior control, environment perception and other function as the total integration.



PRODUCT CATEGORY

- C1-Latent traction series
- C2- Latent lift series
- C3- Unit load AGV with conveyor series
- C5- Automated forklift truck
- CCM-Special AGV for new energy industry
- CCS-Charging Station Series



APPLICATION INDUSTRY

With the continuous development of CASUN intelligent, the application scope of mobile robots has been greatly expanded, not only in the new energy lithium, automobile and parts, flat panel display, 3C and semiconductor, logistics, food and beverage, home appliances industry has been widely used, but also in the new energy photovoltaic, petrochemical industry has been very good application.

C1 Latent traction series

INTRODUCED

The latent traction series mobile robot can lurk under the material truck, use the traction rod to automatically lift, mount or drop the material vehicle. This series of products are divided into one-way, two-way and omni-directional according to the running direction, the navigation method is magnetic navigation/SLAM navigation, and the traction capacity is 500kg~1500kg. Latent traction series AGVs are widely used, compact in structure, flexible in operation, mature and stable, and suitable for various material vehicles.

APPLICATION

In-line delivery of PACK line, SPS delivery

Model	C1-11B	C1-12	C1-14	C1-22	C1-24
					
Overall dimension	L1400*W420*H290 (mm)	L1900*W420*H328(mm)	L1965*W420*H328(mm)	L1900*W420*H290(mm)	L1900*W420*H290(mm)
Maximum load	500kg / 1000kg	1000kg / 1500kg	1500kg	1000kg / 1500kg	1000kg
Body weight	180kg	220kg	220kg	280kg	362kg
Lifting height	—	—	—	—	—
Navigation mode	Magnetic navigation	Magnetic navigation	SLAM navigation	Magnetic navigation	SLAM navigation/QR
Navigation accuracy	±10mm	±10mm	±10mm	±10mm	±10mm
Stopping accuracy	±10mm	±10mm	±5mm	±10mm	±10mm
Direction of travel	Forward, turn left and right	Forward, turn left and right	Forward, turn left and right	Forward,backward, turn left and right	Forward,backward, turn left and right
Maximum travelling speed	45m/min	45m/min	45m/min	35m/min	35m/min
Charging mode	Side charging /Ground charging	Side charging /Ground charging	Ground charging	Side charging /Ground charging	Ground charging
Charging time	Charge time ≤1H after complete discharge	Charge time ≤1H after complete discharge	Charge time ≤1H after complete discharge	Charge time ≤1H after complete discharge	Charge time ≤1H after complete discharge
Rated endurance	8H	8H	8H	8H	8H
Communication mode	RF / WiFi / 5G	RF / WiFi / 5G	WiFi / 5G	RF / WiFi / 5G	WiFi / 5G
Safety warning	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast
Safety protection	-Front obstacle detection sensor -Mechanical anti-collision mechanism -Emergency stop switch	-Front obstacle detection sensor -Mechanical anti-collision mechanism -Emergency stop switch	-Front obstacle detection sensor -Mechanical anti-collision mechanism -Emergency stop switch	-Obstacle detection sensor ahead -Mechanical anti-collision mechanism -Emergency stop switch	-Obstacle detection sensor ahead -Mechanical anti-collision mechanism -Emergency stop switch

C2 Latent lift series

INTRODUCED

The latent lifting series mobile robot can carry out precise positioning according to the dispatching instructions, and independently complete the lifting, transportation, and unloading operations. It can be equipped with material sorting system, lifting platform, and relative rotation of the body. The series of products are divided into one-way, two-way and omni-directional according to the running direction. The navigation method can choose QR code navigation and SLAM navigation. The maximum load can reach 2500kg.

APPLICATION

PACK line in-line distribution, line-side material distribution, goods-to-person sorting, pallet four-way shuttle warehouse pallet off-line.

Model	C2-22B	C2-23B	C2-26B	C2-36	C2-37
					
Overall dimension	L940*W650*H253 (mm)	L1180*W860*H300 (mm)	L1600*W860*H350 (mm)	1540*920*370(mm)	L2000*W1000*H840(mm)
Maximum load	1000kg	1500kg	1500kg	1500kg	1000kg / 1500kg / 2500kg
Body weight	150kg	400kg	400kg	410kg	630kg
Lifting height	60mm	50mm	60mm	60mm	248mm
Navigation mode	QR/SLAM Navigation	QR/SLAM Navigation	QR	QR/SLAM Navigation	QR/SLAM Navigation
Navigation accuracy	±10mm / ±15mm	±10mm / ±15mm	±10mm	±10mm / ±15mm	±10mm / ±15mm
Stopping accuracy	±5mm / ±10mm	±5mm / ±10mm	±10mm	±5mm / ±10mm	±5mm / ±10mm
Direction of travel	Forward,Backward,Rotate	Forward,Backward,Rotate	Forward,Backward,Rotate	Forward,Backward,Rotate	Forward, backward, sideways, rotating
Maximum travelling speed	1.5m/s	1.2m/s	1.0m/s	1.0m/s	1.0m/s
Charging mode	Collision charging	Collision charging	Side charging	Side charging /ground charging	Side charging /ground charging
Charging time					Charge time ≤1H after complete discharge
Rated endurance	4H	6H	6H	4H	6H
Communication mode	WiFi / 5G	WiFi / 5G	WiFi / 5G	WiFi / 5G	WiFi / 5G
Safety warning	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast	-Light warning -Voice broadcast
Safety protection	-Front obstacle detection sensor -Mechanical anti-collision mechanism -Emergency stop switch	-Front obstacle detection sensor -Mechanical anti-collision mechanism -Emergency stop switch	-Obstacle detection sensor ahead -Mechanical anti-collision mechanism -Emergency stop switch	-Obstacle detection sensor ahead -Mechanical anti-collision mechanism -Emergency stop switch	-Obstacle detection sensor ahead -Mechanical anti-collision mechanism -Emergency stop switch

C3 Unit load AGV with conveyor series

INTRODUCED

The mobile robot of the load transfer series can autonomously navigate to the docking body according to the dispatching task, so as to realize the fully automatic transfer of materials. This series is divided into single station and multi-station according to the number of product stations. The navigation method can choose QR code navigation, laser positioning navigation, and SLAM navigation. This series of mobile robots are widely used, compact in structure, flexible in operation and high in automation.

APPLICATION

Line-side turnover, line-side storage and cache, automated line material distribution, conveyor line docking

Model	C3-01	C3-04	C3-05
			
Overall dimension	L940*W680*H755 (mm)	L1550*W950*H2150 (mm)	L1550*W950*H1500 (mm)
Maximum load	100kg	300kg	300kg
Body weight	300kg	350kg	300kg
Butt height	820mm	lower butt height is 450mm upper butt height is 1300mm	lower butt height is 450mm upper butt height is 1000mm
Navigation mode	QR / Laser /SLAM Navigation	SLAM Navigation	SLAM Navigation
Navigation accuracy	±10mm / ±10mm / ±15mm	±10mm	±10mm
Stopping accuracy	±5mm / ±10mm / ±10mm	±5mm	±5mm
Direction of travel	Forward,Backward,Rotate	Forward,Backward,Rotate	Forward,Backward,Rotate
Maximum travelling speed	1.5m/s	1.2m/s	1.2m/s
Charging mode	Side charging	Side charging	Side charging
Charging time	Charge time after full discharge: side charge ≤1H	Charge time after full discharge: side charge ≤1H	Charge time after full discharge: side charge ≤1H
Rated endurance	4H	8H	8H
Communication mode	WiFi / 5G	WiFi / 5G	WiFi / 5G
Safety warning	Light Warning;Voice Broadcast	Light Warning;Voice Broadcast	Light Warning;Voice Broadcast
Safety protection	<ul style="list-style-type: none"> ·Front obstacle detection sensor ·Mechanical anti-collision mechanism ·emergency stop switch 	<ul style="list-style-type: none"> ·Obstacle detection sensor ahead ·360° laser obstacle avoidance ·Mechanical anti-collision mechanism ·Emergency stop switch ·Optional visual protection 	<ul style="list-style-type: none"> ·Obstacle detection sensor ahead ·360° laser obstacle avoidance ·Mechanical anti-collision mechanism ·Emergency stop switch ·Optional visual protection




C5 Automated forklift truck

INTRODUCED

Intelligent forklift series mobile robots are divided into handling type and stacking type. The navigation method of the intelligent forklift series adopts laser positioning and navigation. This series of products has a high degree of intelligence and is widely used in many industries such as new energy lithium batteries, automobiles and parts, flat panel displays, food and beverage, 3C and semiconductors, household appliances, home textiles, etc. And new scenarios such as warehouse entry and exit, loading and unloading, and material transfer of logistics and circulation.

APPLICATION

Line-side materials on-line, finished product logistics off-line and warehousing, storage position turnover on balance beam shelves, raw materials warehousing, finished product out-of-warehouse

Model	C5-B2 Handling Type	C5-B6 Handling Type	C5-D1 Stacking Type
			
Overall dimension	L1585*W780*H2035 (mm)	L1120*W600*H788mm	L1653*W856*H2295 (mm)
Maximum load	1000kg	500kg	1000kg
Body weight	400kg	392kg	600kg
Lifting height	120mm	120mm	1600mm
Navigation mode	Laser	Laser	Laser
Navigation accuracy	±10mm	±10mm	±10mm
Stopping accuracy	±10mm	±10mm	±10mm
Direction of travel	Forward,Backward,Rotate	Forward,Backward,Rotate	Forward,Backward,Rotate
Maximum travelling speed	1.2 m/s	1.0 m/s	1.2 m/s
Charging mode	Side Charging	Side Charging	Side Charging
Charging time	≤1H After Full Discharge	≤1H After Full Discharge	≤1H After Full Discharge
Rated endurance	6H	8H	6H
Communication mode	WiFi / 5G	WiFi / 5G	WiFi / 5G
Safety warning	<ul style="list-style-type: none"> ·Light warning ·Voice broadcast 	<ul style="list-style-type: none"> ·Light warning ·Voice broadcast 	<ul style="list-style-type: none"> ·Light warning ·Voice broadcast
Safety protection	<ul style="list-style-type: none"> ·Front/Rear Obstacle Detection Sensors; ·Mechanical Anti-collision Structure; ·Emergency Stop Switch ·Laser Distance Sensor 	<ul style="list-style-type: none"> ·Front/Rear Obstacle Detection Sensors; ·Mechanical Anti-collision Structure; ·Emergency Stop Switch ·Mechanical Collision+ Photoelectric Sensors 	<ul style="list-style-type: none"> ·Front/Rear Obstacle Detection Sensors; ·Mechanical Anti-collision Structure; ·Emergency Stop Switch ·Mechanical Collision+ Photoelectric Sensors

CCM Special AGV for new energy industry

INTRODUCED

The CCM series is a mobile robot customized for the industry. It is a new model customized and developed according to the actual needs of new energy lithium battery projects, with flexible applications. At present, special robots for new energy include: double-fork lifting mobile robots, single-fork lifting mobile robots, and single-cantilever mobile robots. MES system docking, multiple safety protection, strict environmental cleanliness production requirements.

APPLICATION

Foil and uncut pole roll handling in battery production plants, slit pole roll handling



Mobile Robot 41

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产品型号	CCM-51 Double fork lift	CCM-52 Single fork lift
Overall dimension	L1800*W1800*H1800(mm)	L1800*W1500*H1200mm
Maximum load	1800kg	1800kg
Body weight	1800mm±50mm	1300mm~1800mm
Lifting height	Laser Slam/QR code	Laser Slam/QR code
Navigation mode	±10mm	±10mm
Navigation accuracy	±5mm	±3mm
Stopping accuracy	±1mm	±2mm
Direction of travel	Forward,Backward,Turn,Rotate,Transverse Moving	Forward,Backward,Turn,Rotate,Transverse Moving
Maximum travelling speed	1.0 m/s	1.0 m/s
Charging mode	Side Charging	Side Charging
Charging time	≤1.5H After Full Discharge	≤1.5H After Full Discharge
Rated endurance	6H	6H
Communication mode	WiFi / 5G	WiFi / 5G
Safety warning	·Light warning ·Voice broadcast	·Light warning ·Voice broadcast
Safety protection	·5 Obstacle Detection Sensors; ·Mechanical Anti-collision Structure; ·Emergency Stop Switch	·4 Obstacle Detection Sensors; ·Mechanical Anti-collision Structure; ·Emergency Stop Switch

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Automobile and parts



New energy lithium battery



Flat panel display



New energy lithium battery



Food and beverage



Logistics distribution



3C & Semiconductor



Medicine



Household textile



Electricity

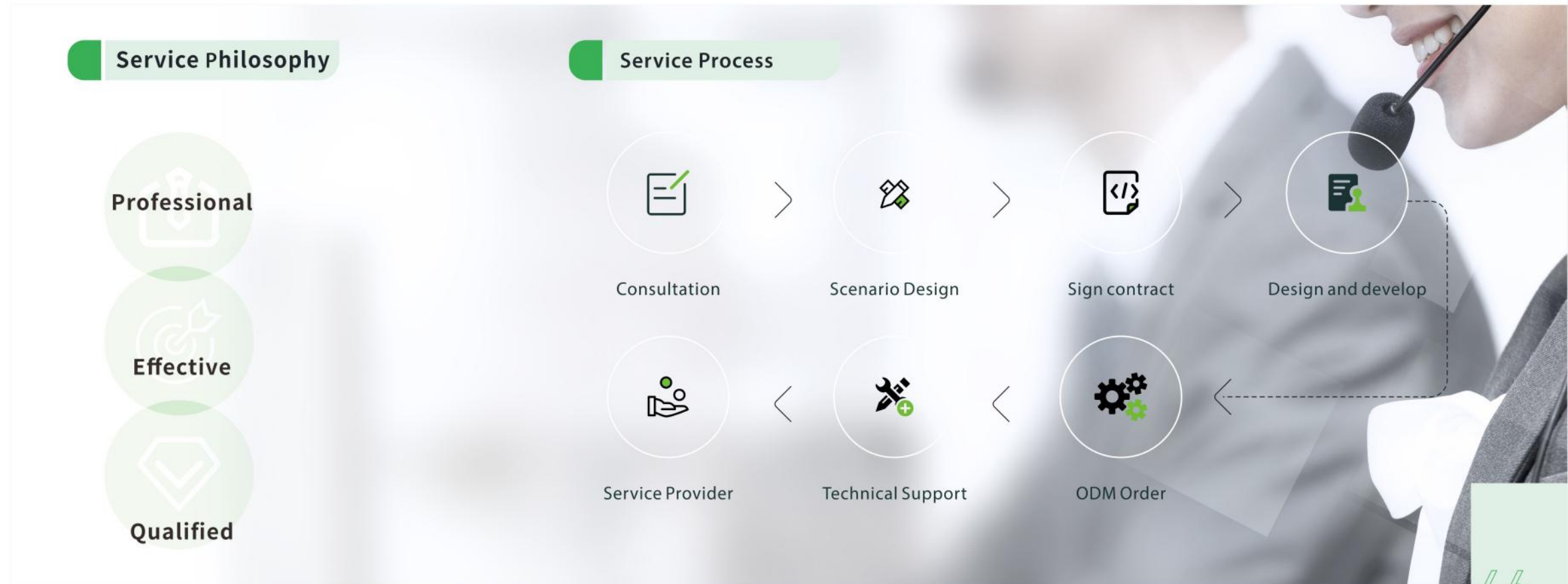


Home appliance & Electronics



06

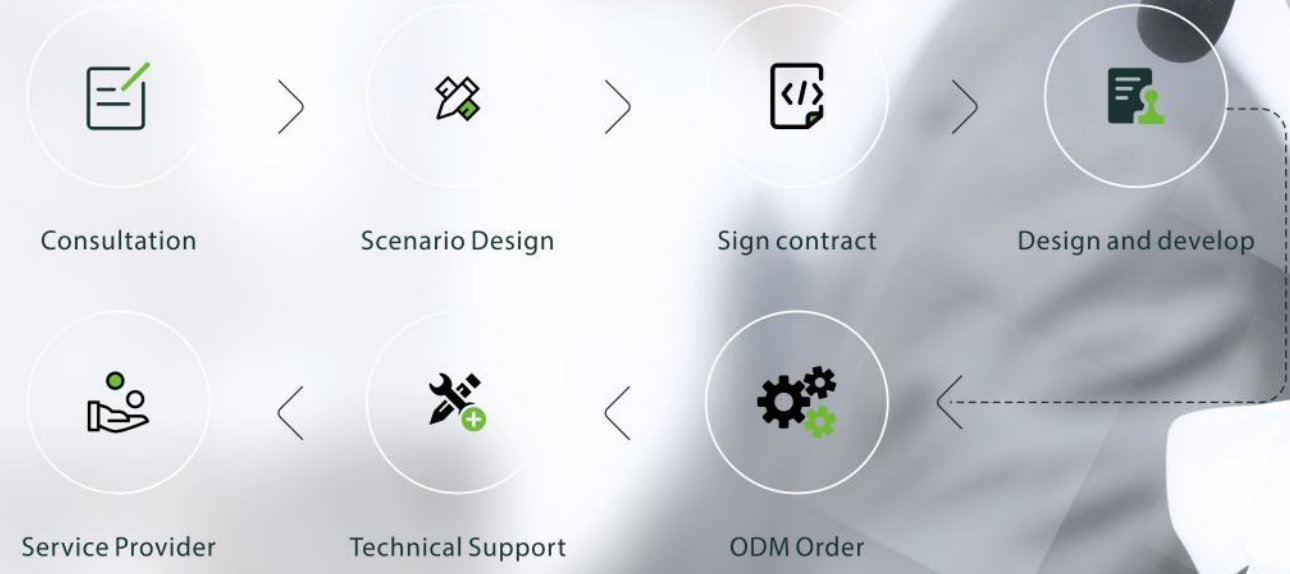
EMPLOYERS



Service Philosophy

-  Professional
-  Effective
-  Qualified

Service Process



Service Content

Pre-sale

Product consulting

General/custom product function and selection recommendation

Product planning

Site investigation, scheme design, process planning.

System design

Control system design and development

Sale

Product customization

Production and development of customized products

System development

Software development deployment

Installation

Software and hardware Deployment

After sales

Training

Product/system maintenance training

Operating services

Mobile robot management and maintenance

Maintenance service

After-sales support, regular inspection, 7*24 hours customer service consultation

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