



**SYSTEM INTEGRATION;
MATERIAL HANDLING SOLUTION**

AIMS AGILE FACTORY AUTOMATION SDN BHD

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Wellwit Robotics
Mobile Robot Solution Provider





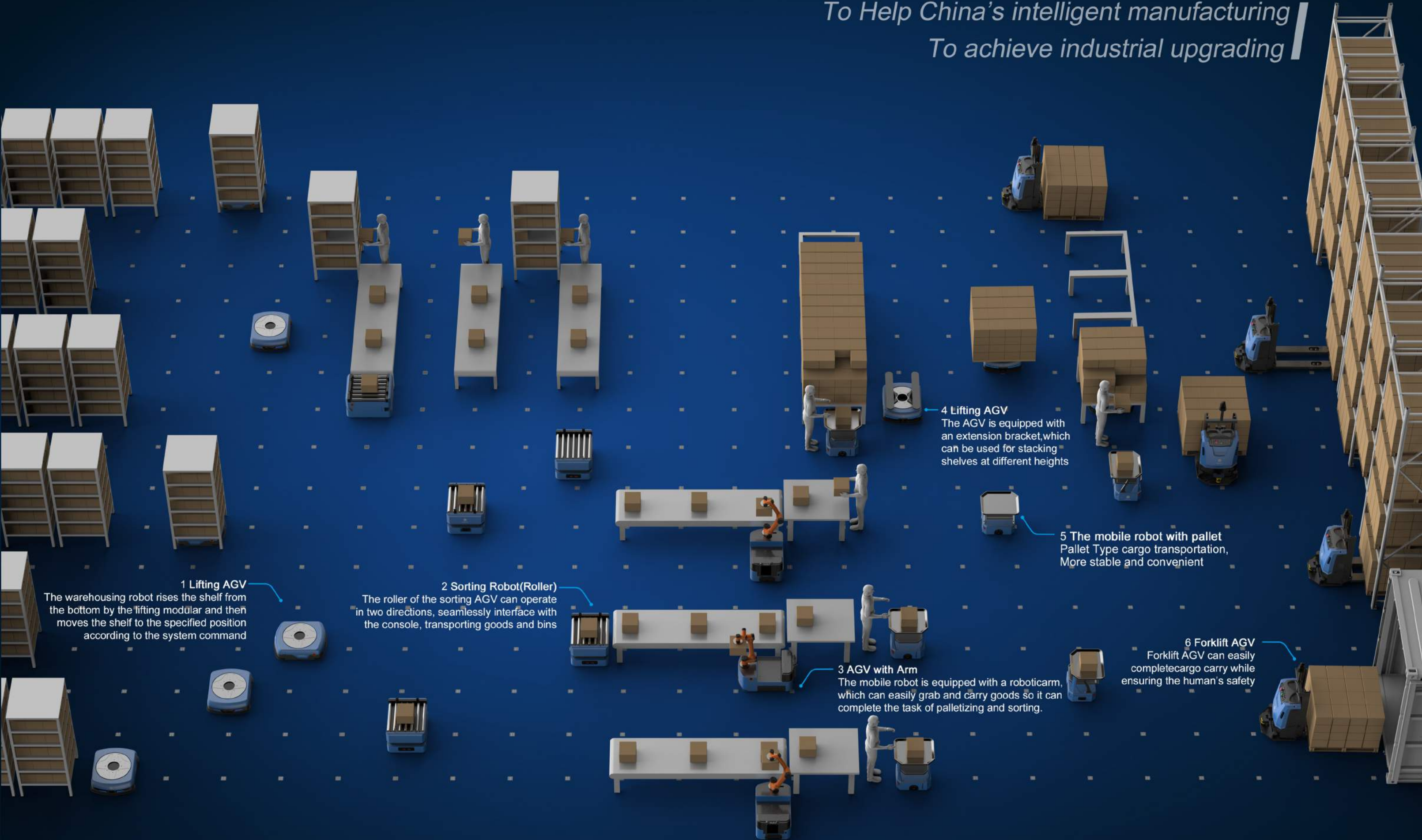
Company Profile

Shenzhen WellWit Robotics Co.,Ltd. was established in March 2015, our company focused on research and development of mobile robot and the overall solution. The R&D team consists of members who experienced in feild of robot, embedded hardware, software, algorithms, artificial intelligence, etc.

Currently, product for sale include moving robot,sorting robot, unmanned forklift and so on. Way of navigation we provide include QR code navigation, laser radar navigationm, RTK navigation. We focus on providing moving and sorting solutions for Intelligent Logistics and Intelligent Factory.

Energize China's Intelligent Manufacturing
Release Human Being From Physical Labor
To Make Better Life

To Help China's intelligent manufacturing
To achieve industrial upgrading



1 Lifting AGV
The warehousing robot rises the shelf from the bottom by the lifting modular and then moves the shelf to the specified position according to the system command

2 Sorting Robot(Roller)
The roller of the sorting AGV can operate in two directions, seamlessly interface with the console, transporting goods and bins

3 AGV with Arm
The mobile robot is equipped with a robotic arm, which can easily grab and carry goods so it can complete the task of palletizing and sorting.

4 Lifting AGV
The AGV is equipped with an extension bracket, which can be used for stacking shelves at different heights

5 The mobile robot with pallet
Pallet Type cargo transportation, More stable and convenient

6 Forklift AGV
Forklift AGV can easily complete cargo carry while ensuring the human's safety

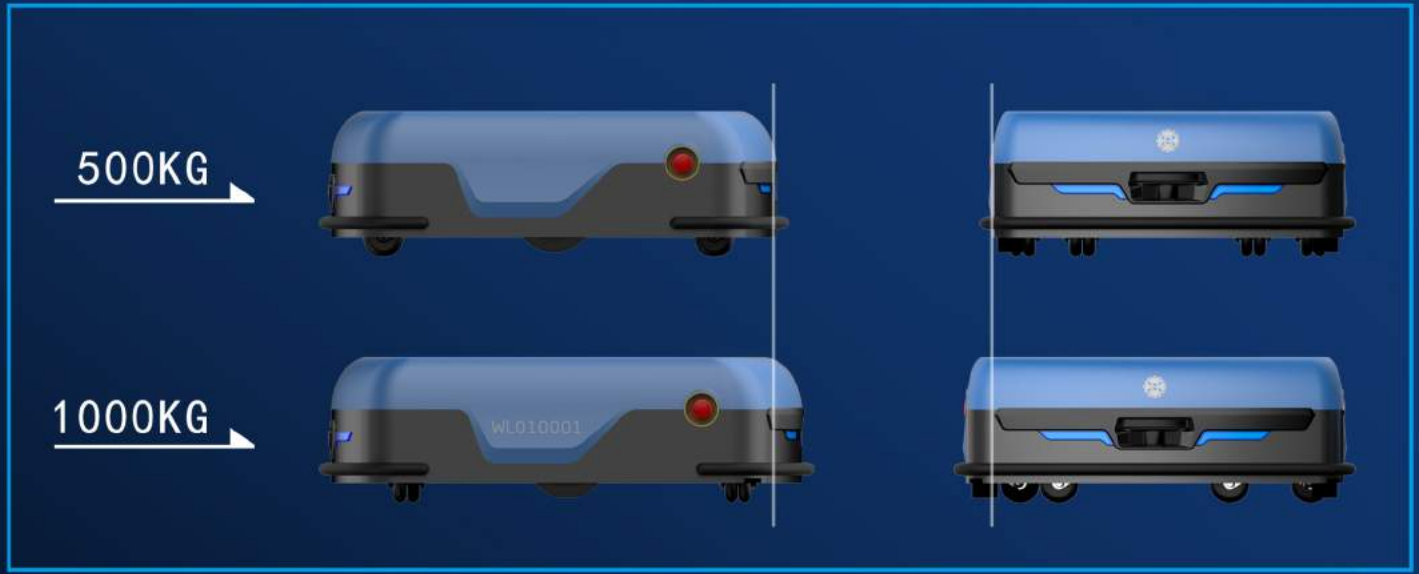
Lifting AGV



The AGV is equipped with a new generation of QR code+inertial navigation / laser rader navigation / max navigation to achieveprecise positioning, more efficient and safer operation



-  High load carrying capacity
-  Multiple navigation option
-  Cluster Scheduling algorithm
-  Modular design
-  Longer battery life
-  Intelligent algorithm

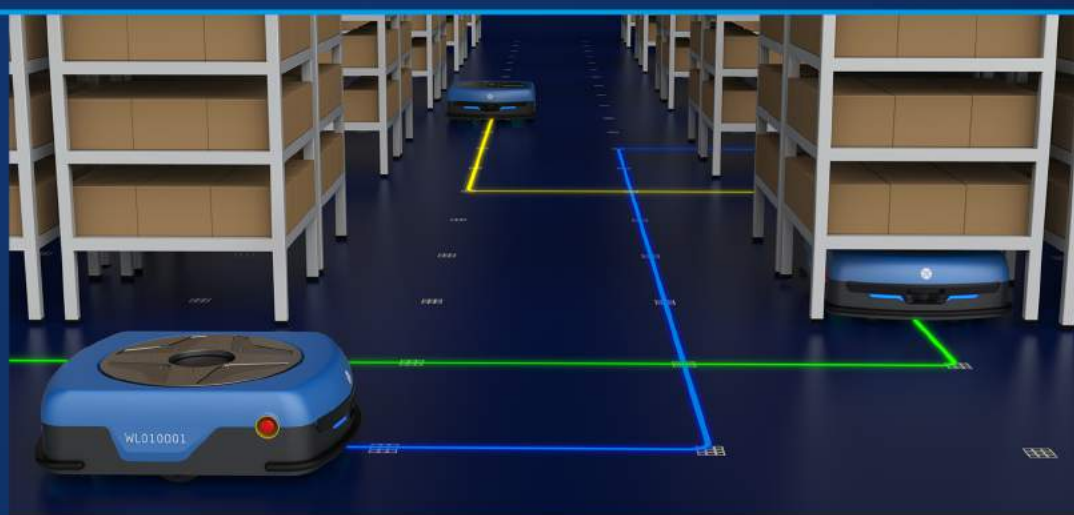


Autonomous obstacle avoidance



The safety is improved, the collision avoidance and the collision prevention are combined, and protect the safety of the workers

Path planning



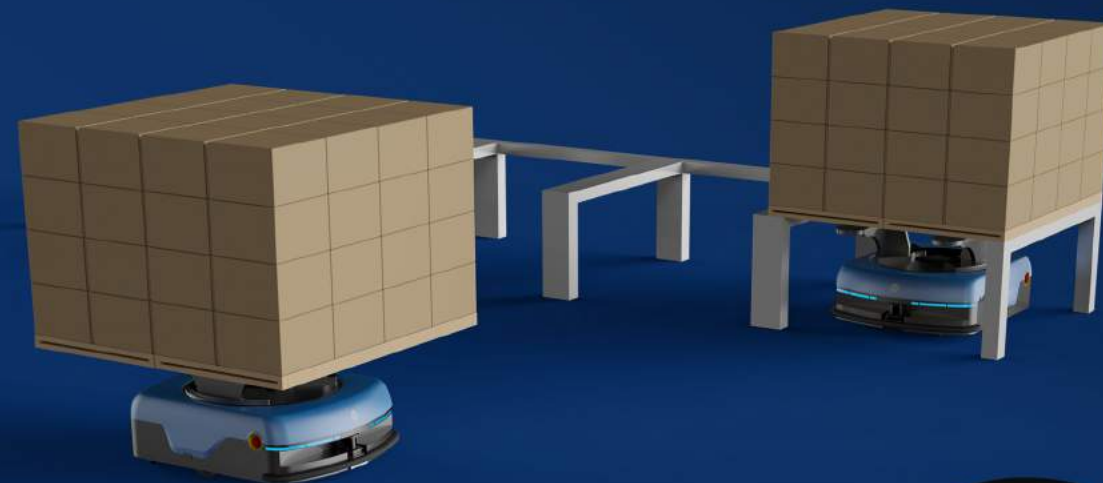
Self learning and analysis, generate environmental memory, and share database to improve the efficiency of system collaboration

Rise the Shelf from the bottom top by the lifting structure



Load can be customized to meet mutiple operating requirements

Lifting AGV



Flexible loading structure

The chassis of AGV can equipped with customize bracket which can meet multi-platform docking requirements, support QR code navigation, laser rader navigation, more flexible options.



High load carrying capacity



Multiple navigation option



Flexible planning path



Modular design

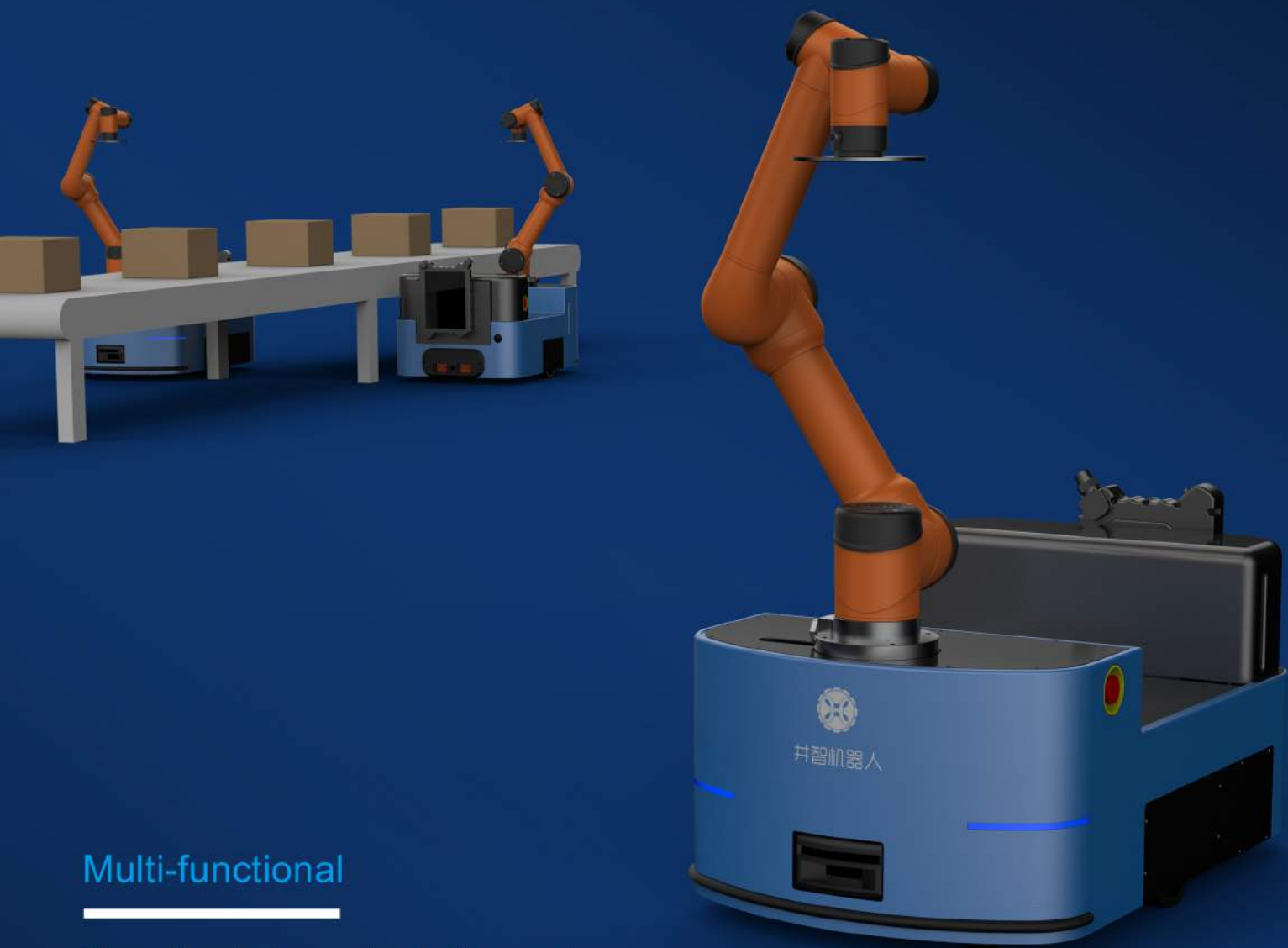


Rapid deployment



Intelligent dispatching

AGV with Arm



Multi-functional

The mobile robot are equipped with several manipulators to achieve automatic grabbing and handling of bulk materials, and combined with visual error compensation for secondary positioning to achieve accurate capture.



Environmental Perception



Inertial navigation & QR code navigation / laser radar navigation



Multiple security protection



Efficient and Stable



Longer battery life



Autonomic charging

Forklift AGV

High efficiency& Punctuality

Adopt visual navigation and positioning, multiple protection and alarm sound, and light warning. No manual operation are required , it's easy to fork, unload, stack goods, suitable for whole pallet cargo transportation.



Human-Computer interaction



Inertial navigation & QR code navigation / laser radar navigation



Multi-car consistency



Environmental universality



Simple operation



Automatic charging

Sorting robot (roller)

Relay transfer

The roller of the sorting AGV can operate in two directions, so it can be automated transport of goods and connect with the moving belt, seamlessly interface with the conveyor, smooth and quick transfer.

It is widely used in the transportation of materials in the electronic 3C and other warehouse.



Efficient and Stable



Inertial navigation & QR code navigation / laser radar navigation



Smart Obstacle avoidance



Flexible Operation



Automatic connection



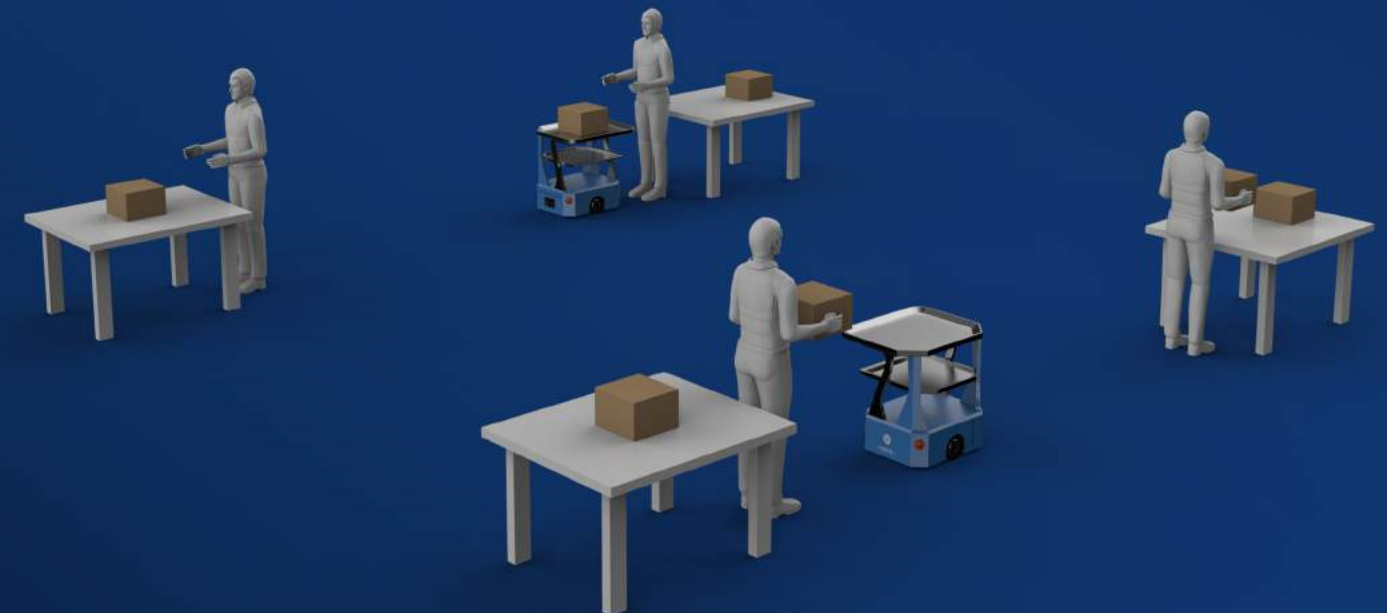
Automatic charging

Transfer robot (customization rack)



Ergonomics design

Field environment testing and inspection, Continuous inspection and improvement of design according to ergonomic standards.



Human-Computer interaction



Inertial navigation & QR code navigation / laser radar navigation



Multi-car consistency



Environmental universality

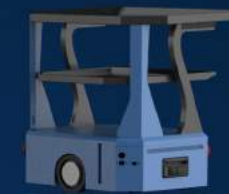
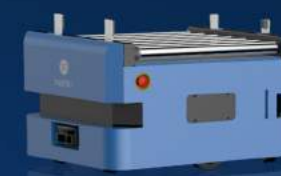
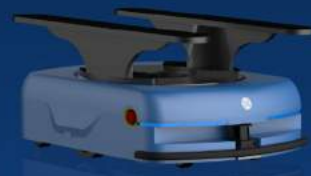
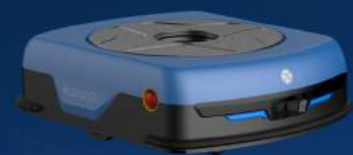


Simple operation



Automatic charging

Technical Parameter Table



Basic parameters

Type	W1000	W500	Customization	WRA100	WF1000	W100-R	Customization
Name	Lifting AGV	Lifting AGV	Lifting AGV	AGV with Arm	Forklift AGV	Sorting robot(roller)	The mobile Robot with Pallet
Dead-weight	200KG(±5KG)	180KG(±5KG)	180KG(±5KG)	150KG (±5KG)	490KG (±5KG)	120KG (±5KG)	120KG(±5KG)
Load weight	1000KG	500KG	500KG	100KG	1000KG	50KG	100KG
Dimension	924*758*290mm	880*680*280mm	880*680*280mm	997*607*487mm	1947*830*1241mm	860*680*580mm	600*485*235mm
Lifting height	55mm	55mm	55mm+Rack height customizable	/	650mm	/	Pallet customizable
Navigation mode	Inertial navigation system/ QR code navigation/ Laser radar navigation(Optional)	Inertial navigation system/ QR code navigation/ Laser radar navigation(Optional)	Inertial navigation system/ QR code navigation/ Laser radar navigation(Optional)	Inertial navigation system/ QR code navigation	Magnetic navigation /Laser radar navigation(Optional)	Inertial navigation system/ QR code navigation	Inertial navigation system/ QR code navigation

Performance

Drive mode	Servo motor&Daul-wheel differential drive	Servo motor&Daul-wheel differential drive	Servo motor&Daul-wheel differential drive	Servo motor&Daul-wheel differential drive	Steering wheel drive	Servo motor&Daul-wheel differential drive	Servo motor&Daul-wheel differential drive
Location Precision	±10mm	±10mm	±10mm	±10mm	±10mm	±10mm	±10mm
Speed of motion (without load)	1.5m/s	1.7m/s	1.7m/s	1.5m/s	1.3m/s	1.7m/s	1.7m/s
Speed of motion (full load)	0.8m/s	1m/s	1m/s	1m/s	1.1m/s	1.5m/s	1.5m/s
Charge mode	Automatic charging/ offline charging	Automatic charging/ offline charging	Automatic charging/ offline charging	Automatic charging/ offline charging	Automatic charging/ offline charging	Automatic charging/ offline charging	Automatic charging/ offline charging
Endurance	≥8H	≥10H	≥10H	≥5H	≥8H	≥8H	≥10H

Battery parameters

Battery type	Lithium-ion battery DC48V	Lithium-ion battery DC48V	Lithium-ion battery DC48V	Lithium-ion battery DC48V	Lithium-ion battery DC24V	Lithium-ion battery DC48V	Lithium-ion battery DC48V
Battery capacity	40AH/30AH	40AH/30AH	40AH/30AH	20AH	80AH	40AH/30AH	10AH
Charging time	1.5H~2H	1.5H~2H	1.5H~2H	1.5H~2H	1.5H~2H	1.5H~2H	1.5H~2H
Battery cycle life	≥2000times	≥2000times	≥2000times	≥2000times	≥2000times	≥2000times	≥2000times

Safety

Obstacle avoidance	Lidar obstacle avoidance / Ultrasound Barrier Avoidance/ collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)	Lidar obstacle avoidance / collision avoidance bar(Optional)
Status light	Available	Available	Available	Available	Available	Available	Available
Emergency switch	Available,switch at each side	Available,switch at each side	Available,switch at each side	Available,switch at each side	Available,switch at each side	Available,switch at each side	Available,switch at each side
Communication	WIFI	WIFI	WIFI	WIFI	WIFI	WIFI	WIFI
Interface	Open	Open	Open	Open	Open	Open	Open

Operating ambient

temperature	-20℃~60℃	-20℃~60℃	-20℃~60℃	-20℃~60℃	-20℃~60℃	-20℃~60℃	-20℃~60℃
environment	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas	Indoor use, no excessive dust, no corrosive gas