UBi优奇

数字化平台系统

机器人产品线

机器人操作系统

机器人核心配件

ADAS L4 level auto runing in closed Regine
Drive power (rated/peak): 4kw/8kw
Travel Distance: 120kilometer
RuningWay: Forward/Backard/Steering
Load Space:2400*1400*1000mm

Model	Carriage	Flat Deck	Tractor
Configuration			
L*W*H	3500*1600*1860mm	3500*1600*1860mm	3500*1600*1860mm
Rated Load	300kg	600kg	3000kg
Navigate Mode	Multiline LaserSLAM	Multiline LaserSLAM	Multiline LaserSLAM
Location Accuracy	±10mm	±10mm	
Obstacle avoidance mode	Laser/MMW/UltraSonic/Binocular Camera	Laser/MMW/UltraSonic/ Binocular Camera	Laser/MMW/UltraSonic/ Binocular Camera
Maximum speed (No load)	25km/h	25km/h	25km/h
Minimum ground clearance	125mm	125mm	125mm
Turning radius (no load)	< 5m	< 5m	< 5m
Climbing capacity (full load)	25%(14°)	25%(14°)	25%(14°)
Charging Time	3h	3h	3h
Duration	12h	12h	12h
Telecom	WIFI/5G	WIFI/5G	WIFI/5G

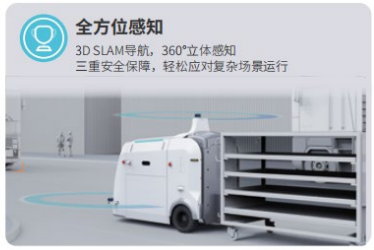
- Auto Runing & Auto Charging/Differential steering
- High Load Ratio
- Low Remould Cost in Time & Labour
- Combo controlling in one app
- Easy learning

Model	U600	U1000
Configuration		
L*W*H	786*550*260mm	980*680*245mm
Rated Load	600kg	1000kg
Navigate Mode	LaserSLAM\QR\ Texture navigation	LaserSLAM\QR\ Texture navigation
Location Accuracy	±10mm	±10mm
Obstacle avoidance mode	Laser Lidar/ Binocular camera (optional)	LaserLidar/Binocular camera (optional)
Maximum running speed (No load)	1.5m/s	1.5m/s
Lifting Height	55mm	55mm
Roadway width (straight)	580mm	710mm
Climbing capacity (full load)	3°	3°
Charging Time	1.5h	1.5h
Duration	≥8h	≥8h
Telecom	WIFI/BlueTooth/4G	WIFI/BlueTooth/4G

WALI Tractor Robot Detailed Parameter		
L*W*H	Rated Load	Location Accuracy
1180*870*1629mm	3000kg	±10mm
Navigate Mode	Obstacle avoidance mode	Max Carrying Quanty
Multiline LaserSLAM	Laser Lidar	6 Trolleys
Tractor Height	Maximum speed (No load)	Telecom
170~350mm	1.0m/s	WIFI/BlueTooth/4G
Charging Time	Roadway width (straight)	Driving Mode
1.5h	900mm	Steering Wheel
Duration	Climbing capacity (full load)	Moving Way
≥8h	3°	Forward/Backward/Turning

- Auto Runing & Auto Towing Hook
- RGBD Auto location& Alignment (Trolley)
- ABS in shell + Integrated casting body
- Combo controlling in one app
- Easy learning & Operating in Upilot APP

WALI 瓦力
室外牵引机器人 T8000



Auto Runing & Auto Towing Hook
RGBD Auto location& Alignment（Trolley）
Upilot Smart dispatch & Process humanless
All Climate for bad weather & Smart Charging in 7*24h unstopped working
3D Slam Nav & 360° perception & 3 level Safety Protection

WALI Tractor Robot (Outdoor)
T3000 Model
Detailed Parameter

L*W*H 2520*1450*1983mm	Rated Load 8000kg	Location Accuracy ±20mm
Navigate Mode Multiline Laser SLAM GNSS Fusion localization	Obstacle avoidance mode Laser Lidar/Camera	Driving Way Driving Alxe（8kw） Steering Wheel（2kw）
Minimum ground clearance 100mm	Maximum speed (No load) >14km/h	Telecom WIFI/4G
Charging Time 1.5h	Roadway width (straight) 2m	Driving Mode Steering Wheel
Duration ≥6h	Climbing capacity (full load) 14° 25%	Moving Way Forward/Backward/Turning

Moduarility Design for moving/ stack/Keyless Go/No Steering/ RGBD camera dynamic location pallet and auto-alignment function
RuningWay:
Forward/Backard/Steering
Driving Mode:
Steering Wheel

Model	F1200S	F1200L	F1200R
Configuration			
L*W*H	1807*870*1592mm	1807*870*1592mm	1807*870*1592mm
Rated Load	1200kg	1200kg	1200kg
Navigate Mode	Multiline LaserSLAM	Multiline LaserSLAM	Multiline LaserSLAM
Location Accuracy	±10mm	±10mm	
Obstacle avoidance mode	Laser/MMW/UltraSonic/Binocular Camera	Laser/MMW/UltraSonic/ Binocular Camera	Laser/MMW/UltraSonic/ Binocular Camera
Maximum speed (No load)	1.86m/s	1.86m/s	1.86m/s
Lifting Height	250mm	1600mm	1600mm
Roadway width (straight)	1400mm	1400mm	1400mm
Climbing capacity (full load)	3°	3°	3°
Charging Time	1.5h	1.5h	1.5h
Duration	≥8h	≥8h	≥8h
Telecom	WIFI/BlueTooth/4G	WIFI/BlueTooth/4G	WIFI/BlueTooth/4G

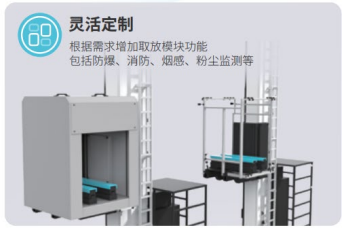
WALI瓦力

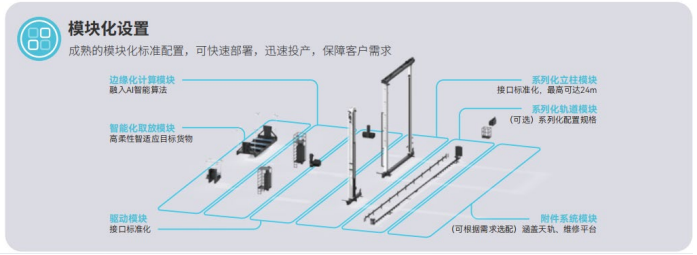
重载无人叉车 F3000

3D Slam Nav & 360° perception & 3 level Safety Protection
Upilot Smart dispatch indoor & Outdoor
All Climate for bad weather & Smart Charging in 7*24h unstopped working
3D Slam Nav & 360° perception & 3 level Safety Protection

Model	Indoor	Outdoor
Configuration		
L*W*H	3382*1300*2180mm	3382*1300*2180mm
Rated Load	3000/3500kg	3000/3500kg
Navigate Mode	Multiline Laser SLAM	Multiline Laser SLAM GNSS Fusion localization
Location Accuracy	±20mm	±20mm
Obstacle avoidance mode	Laser Lidar Optical Transducer	Laser Lidar Optical Transducer
Maximum speed (No load)	2m/s	2m/s
Minimum ground clearance	70mm	100mm
Lifting Height	1450mm for Low mast height 2500mm for High mast heigh	1450mm for Low mast height 2500mm for High mast heigh
Climbing capacity (full load)	6% （3.4°）	15% （8.6°）
Charging Time	3h	3h
Duration	12h	12h
Telecom	WIFI/4G	WIFI/4G

WALI瓦力
堆垛机器人





AI smart dispatch
Flexible customization
Modularity Setting

Model	C1200S	C1200L	C3000
Configuration			
Structure	Single pillar	Twin Pillar	Twin Pillar
Rated Load	1200kg	1200kg	3000kg
Max Height	≤24m	≤24m	≤24m
Location Accuracy	±10mm	±10mm	
Obstacle avoidance mode	Laser/Binocular Camera	Laser/Binocular Camera	Laser/Binocular Camera
Lift Location Way	Laser Meter+Encoder	Laser Meter+Encoder	Laser Meter+Encoder
Lifting speed	50m/min	50m/min	50m/min
Max horizontal Speed(no load)	180 （12m Pillar） m/min 160 （24m Pillar） m/m	180 （12m Pillar)m/min 160 （24m Pillar)m/m	180 （12m Pillar)m/min 160 （24m Pillar)m/m
Max Folk strench speed （no load)	40m/min	40m/min	40m/min
Power Supply	Trolley Line(5p)	Trolley Line(5p)	Trolley Line(5p)
Bus Protocol	Profinet	Profinet	Profinet
Telecom	Optical/WIFI(Option)	Optical/WIFI(Option)	Optical/WIFI(Option)

Digital Platform System

Software and supporting services to empower robots, as well as to connect with clients' internal platforms, so as to achieve comprehensive solutions.

WMS

智 慧 仓 储 云 平 台

UQI WAREHOUSE MANAGEMENT SYSTEM

MES

智 慧 工 厂 云 平 台

UQI MANUFACTURING EXECUTION SYSTEM

CTS

智 慧 城 市 物 流 云 平 台

UQI CITY TRANSPORT SYSTEM

Comprehensive Smart Logistics Solution

Customize smart logistics solutions for industries such as automotive, tires, batteries, photovoltaics, 3C electronics, and 3PL, to enhance the quality and efficiency of logistics operations.

Automotive

Tire

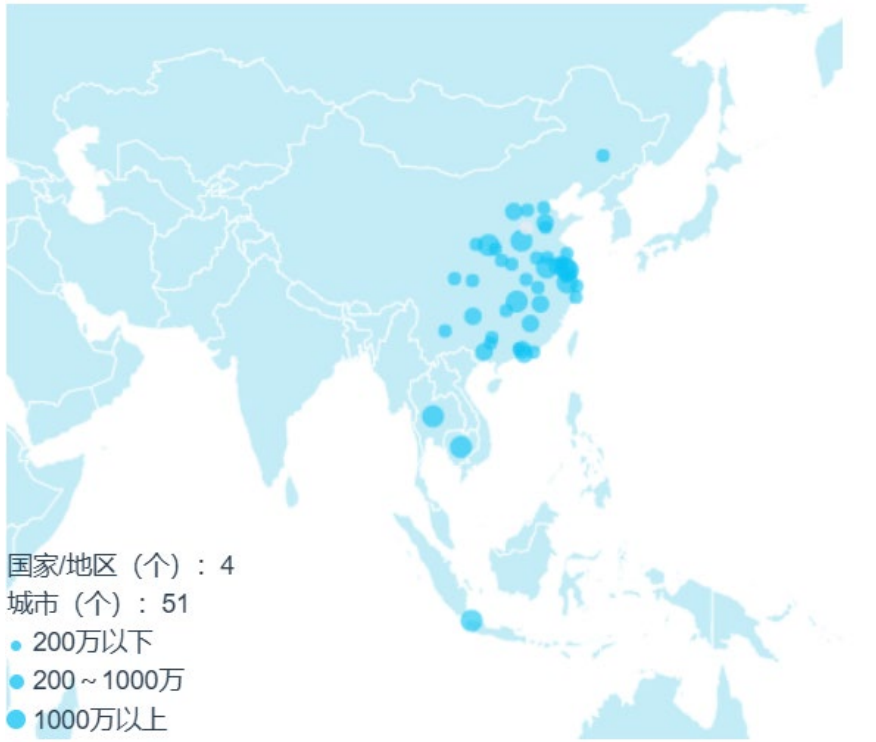
Battery

Photovoltaic

3PL

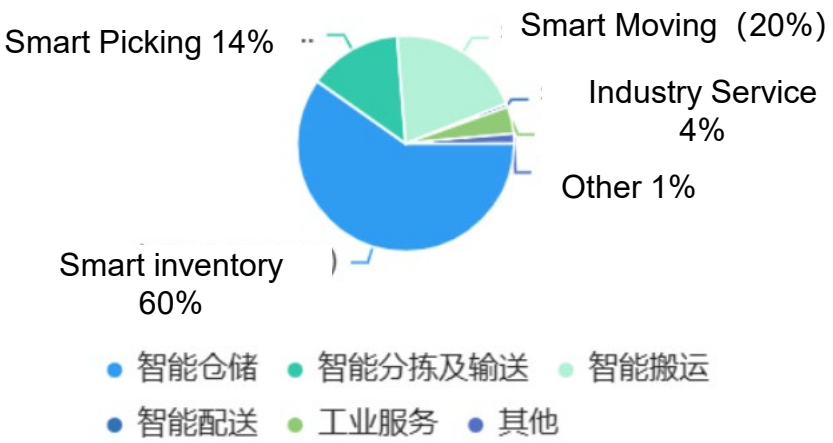
3C Electronics

UQI Product Mapping

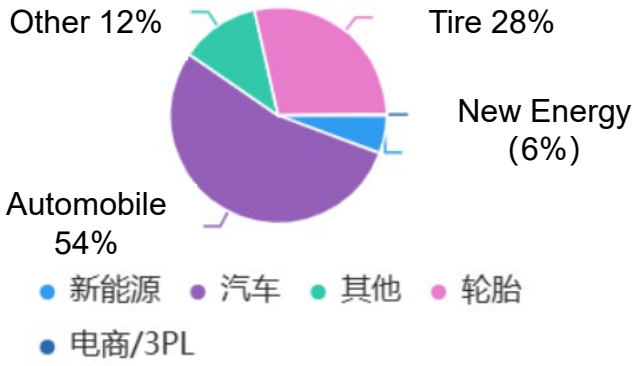


Country/Regine:4
City:51
Oversea:Tailand/Indonesia/Cambodia

Distribution by Product 2024



Distribution by Industry 2024



SHOWCASES

Automotive Industry

Case Study

UQi优奇 × BYD 比亚迪汽车

Application Case of Closed Campus Autonomous Logistics and Delivery

Currently, the L4 autonomous logistics vehicle Chitu is undergoing trials within the BYD campus, replacing traditional forklifts and tractors to achieve unmanned material delivery within the closed campus. As autonomous driving technology matures and relevant laws and regulations are perfected, in the future, the Chitu family of autonomous logistics vehicles will also move towards open roads, replacing traditional logistics trucks to achieve unmanned logistics and delivery in all outdoor scenarios, optimizing and reshaping the logistics system's business processes.

Van-Type

Flatbed

Towing

Case Study

UQi优奇 × 比亚迪汽车

Application Case of Full-Stack SPS Logistics Automation

BYD has established a new base in Jinan, covering an area of 4,000 acres, capable of producing 150,000 vehicles per year, as well as core components such as electric powertrains and batteries. To enhance the logistics efficiency within the final assembly plant of the Jinan base, UQI's full-stack SPS logistics automation solution was introduced. The project included the deployment of 75 T1000 autonomous towing robots, 14 sets of SPS line-side feeding mechanisms, and their accompanying smart factory cloud platform MES, achieving an intelligent upgrade of the SPS logistics in the final assembly plant with low-cost modifications.

- Personnel reduction by 20%-25%
- Logistics efficiency increased by 15%
- Production line side space utilization increased by 30%

T1000

Case Study

UQi优奇 × BYD 比亚迪汽车

Application Case of Fully Automated Painted Body Storage

In recent years, with the increase in production capacity, the automotive industry's requirements for storage space and efficiency have also increased. Due to the old painted body storage facilities no longer meeting the storage needs, BYD has introduced UQI's unmanned factory automated high-bay storage solutions in several factories across the country. By leveraging the collaboration between automated storage equipment and smart warehouse management systems (WMS), they have established an unmanned painted body vertical warehouse.

- Personnel reduction by 60%, and continue to decrease
- ≥110 vehicles/h for inflow and outflow production rhythm
- 99% accuracy rate of execution for inflow and outflow tasks
- Warehouse capacity expanded by 110%

Case Study

UQI优奇 × BYD 比亚迪汽车

Application Case of Automotive Powertrain Factory Smart Warehousing

BYD's powertrain factory has an annual output value of tens of billions RMB. To make more efficient use of space and reduce costs, UQI's intelligent warehousing solution has been introduced to create an automated high-rise warehouse for storing various production raw materials. Materials are retrieved through the operation of Wali C1200S stacker robots, inflow and outflow conveyors, and Rail Guided Vehicles (RGV), achieving an intelligent upgrade.

- 2.4 million RMB labor cost saving annually
- 60% floor space saving
- 7*24 hours operation with efficiency greatly improved

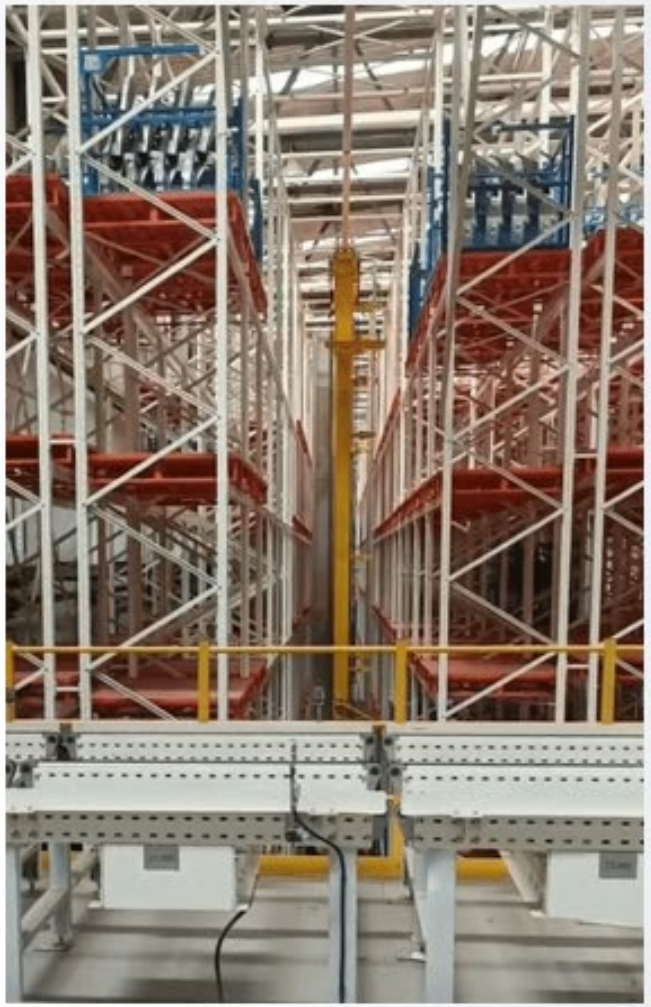
Case Study

UQI优奇 × 上汽大通 MAXUS

Application Case of Automotive Stamping Parts Smart Warehousing

The storage capacity of stamping parts is an important factor in ensuring the orderly operation of the stamping workshop. UQI has custom-built an intelligent warehousing solution for the automotive stamping parts for SAIC Maxus Nanjing Branch, which has "fully refreshed" the company's traditional business. Two Wali stacker robots C1200S meet the full process needs of stamping parts from storage to distribution, with intelligent warehousing and transportation running in parallel, and both storage capacity and efficiency are improved simultaneously.

- Storage utilization increased by over 300%
- 90 pallets/hour for inflow and outflow speed
- Reducing costs and increasing efficiency



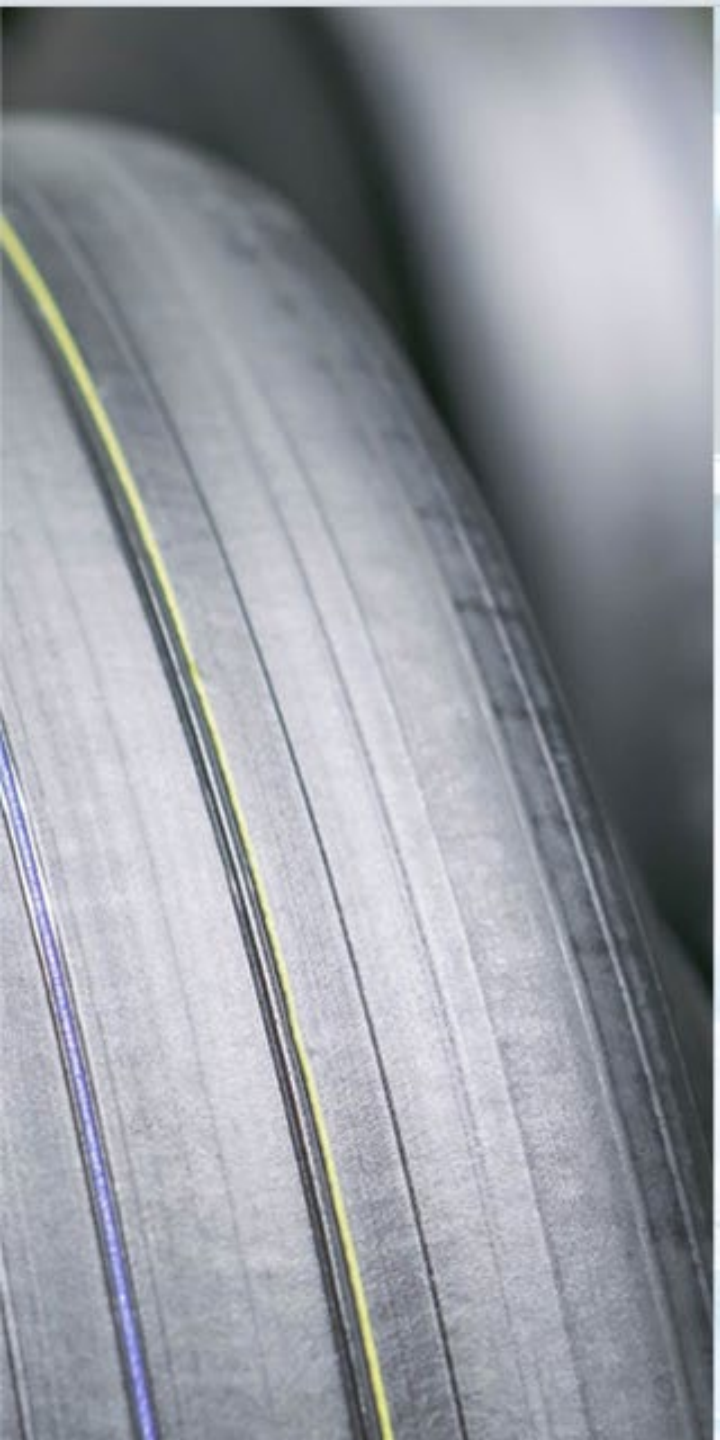
Case Study

UQi优奇 × ARaymond

Application Case of Flexible Smart Sorting for Automotive Parts Warehouse

The Araymond factory located in Zhenjiang, Jiangsu, has a production capacity of up to 1000 tons and can produce up to 100 million units of a specific part each year. Faced with a large volume of part orders, Araymond has introduced UQI's flexible intelligent sorting solution to automate processes such as automatic depalletizing, automatic labeling, and automatic palletizing in its logistics outbound operations. This not only saves labor costs but also reduces the possibility of manual errors, achieving precise and efficient shipping.

- Ultimate Space Utilization: Achieving all functions within a 230 m² space
- Flexible Recognition: >99.9% sorting and shipping reading code accuracy
- Intelligent Grasping: mixed sequence depalletizing of materials of various specifications supported by operating system UPicking
- 600 boxes/h of palletizing speed, with individual boxes weighing up to 30kg



Tire Industry

Case Study

UQi优奇 × GS 通用股份

Application Case of Unmanned Factory in the Tire Industry

To adapt to the development needs of future factory automation production, Jiangsu General Science Technology Co., Ltd has built a new plant with an annual production capacity of 1.2 million sets of all-steel tires. UQI's automated solution for the tire industry assists the plant in conducting an automated transformation with high efficiency and low cost, setting a benchmark for automated production in the tire industry.

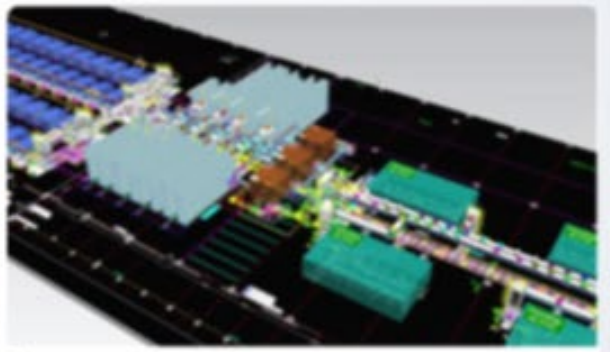
- 10,000 m² saving in workshop storage area
- Search and matching time for semi-finished materials reduced by 90%
- 320 tires/h inflow rate of green tire storage
- 240 tires/h outflow rate of green tire storage

Case Study

UQi优奇 × 中策橡胶 zc rubber

Application Case of Unmanned Factory in the Tire Industry

In the tire production process, it is necessary to place the relatively fragile green tires into green tire trays and transport them to the green tire storage for buffering, with the storage time not exceeding 72 hours. To ensure production efficiency and enhance the core competitiveness of the enterprise, ZC Rubber took the lead in introducing UQI's smart logistics robotics solution for the tire industry. By using nine Wali stacker robots and software management systems, they have achieved the unmanned and intelligent production of green tires.



- Make full use of space with a smart vertical warehouse configured with 9 aisles, 30 rows of shelves, and 3,464 storage slots.
- Up to 105 tires/h inflow and outflow rhythm
- 13,000 green tires transport per day

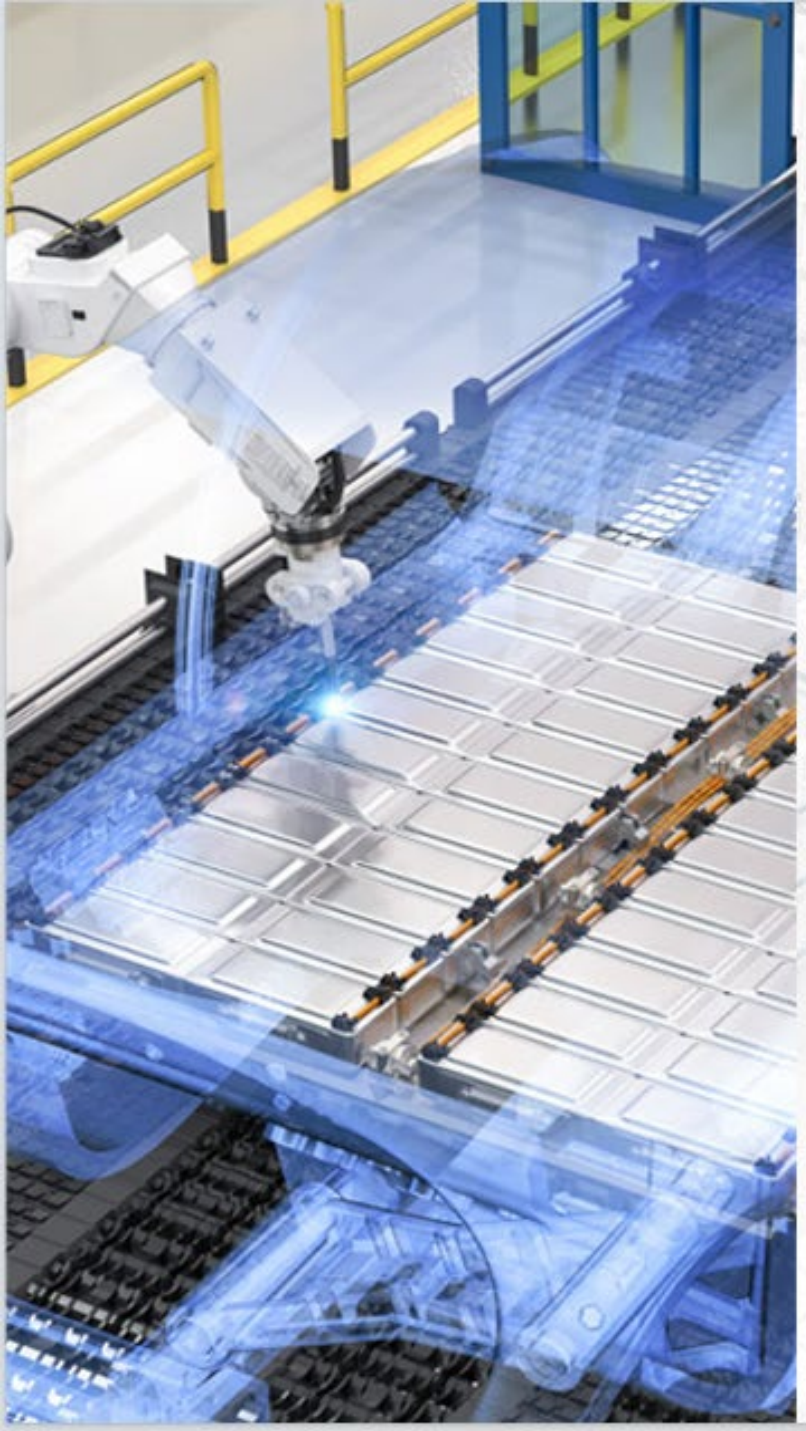
Case Study

UQi优奇 × MICHELIN

Application Case of Unmanned Factory in the Tire Industry

The Michelin NKE factory in Thailand is a tire factory with a history of over 30 years. Due to the prolonged use of the conveyor equipment, Michelin transformed about 1/3 of the originally manually operated forming machines into fully automatic forming machines. They also introduced the UQI smart logistics robotic solution for the tire industry. Without affecting production tasks, the project was carried out in 18 stages of construction, achieving automated production in the forming workshop of the Michelin factory in Thailand.

- Output increased from a maximum of 2,200 tires/day to 4,000 tires/day
- 10% budget cost saving
- Liberating some workers from heavy manual physical labor



Battery Industry

Case Study

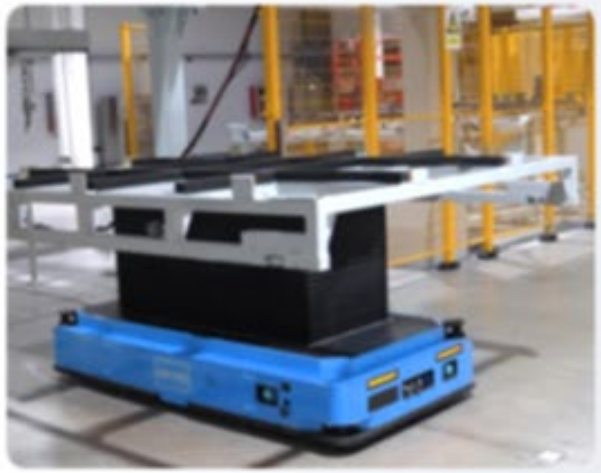
UQi优奇 × 弗迪电池 FinDreams Battery

Application Case of Smart Warehousing and Transportation in the Battery Industry

Xiangyang FinDreams Battery PACK line and testing line have successfully achieved goals including increased production efficiency, reduced labor costs, and enhanced safety on the production line, across more than 12 national bases, thanks to UQI's intelligent management capabilities such as precise handling, smart charging, and intelligent online operations.

UQI enhances FinDreams Battery's international competitiveness and achieves remarkable results. UQI will provide comprehensive support in products, technology, and services to help enterprises through the process of intelligent transformation.

- Efficiency and accuracy greatly improved in testing production line
- 2/3 labor cost reduction by coordinated operation of robots throughout the factory



Case Study

UQi优奇 × Jiangxi Ruibo

Application Case of Smart Warehousing and Transportation in the Battery Industry

Jiangxi Ruibo's waste battery crushing workshop, due to the need for a new production line, adopted UQI's intelligently deep-customized warehousing and handling solution. They introduced an automated vertical warehouse and several Wali light-duty unmanned forklifts to handle the storage and transportation of raw materials in the workshop, greatly enhancing the work efficiency of the entire production process and achieving full-process automation and intelligentization.

F1200S

- Brand-new intelligent shuttle vertical warehouse with a total of over 5,000 storage positions
- Labor cost reduction and loss improvement during the handling process
- Easy to supervise and traceable for entire product distribution process

3C Electronics Industry

Case Study

UQI优奇 × PIE 中电鹏程

Application Case of Smart Warehousing and Handling in the Electronics Industry

UQI has collabrated with CEC PIE to jointly build the CEC Industrial Internet's Smart Retail Terminal Production Base, committed to constructing a model demonstration for the "Two Platforms and One Project" of CEC, and a national "New Infrastructure" self-service terminal development model factory.

UQI undertook the entire intelligent factory logistics planning and automated logistics solution work. With more than 30 lifting mobile robots U1000 deployed,

QR code visual navigation or laser SLAM navigation were used to carry loads weighing 500-1000KG, shuttling within the factory, which met the needs of material delivery on the final assembly line and unmanned storage of finished products.

U1000

Ecommerce Industry

Case Study

UQi优奇 × Large Global Manufacturing and Industrial Supply Chain Innovation Center

Application Case of Raw Material & Finished Goods Warehouse Smart Logistics

The large-scale global manufacturing and industrial supply chain innovation center in Huizhou is dedicated to providing a production service platform for the real economy industries such as artificial intelligence, semiconductors, intelligent manufacturing, and high-end equipment. The center uses UQI's Wali light-duty unmanned forklift robot F1200S with a ladder control system to achieve automated material transfer across floors in the raw material warehouse and finished goods warehouse. Through the real-time control system UPilot and WMS, it enhances the intelligence and informatization of the storage area.

- Logistics efficiency improvement
- Industry automation upgrade promotion
- Industry warehouse management standards enhancement

F1200S

Case Study

UQi优奇 × BYD 比亚迪汽车

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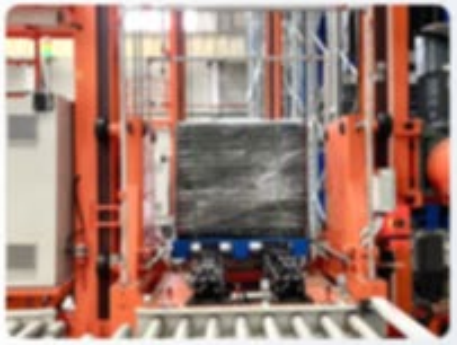

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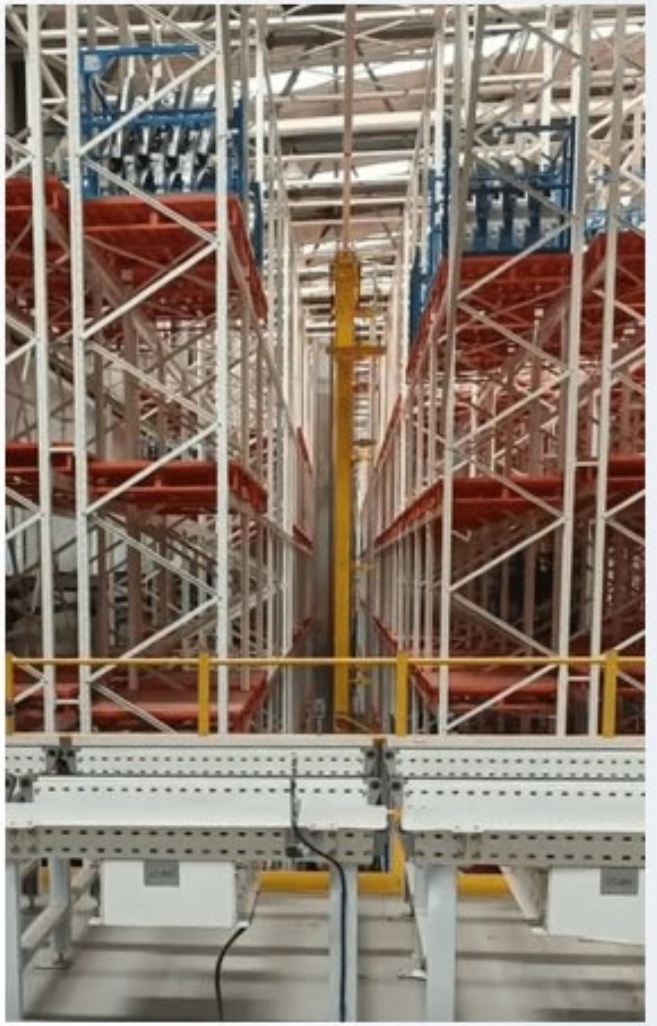

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F1200S

Co-Building a New Ecosystem of Autonomous Logistics

UQi优奇

จัดจำหน่ายอย่างเป็นทางการในประเทศไทย โดย **Sun Robotics & AI**
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