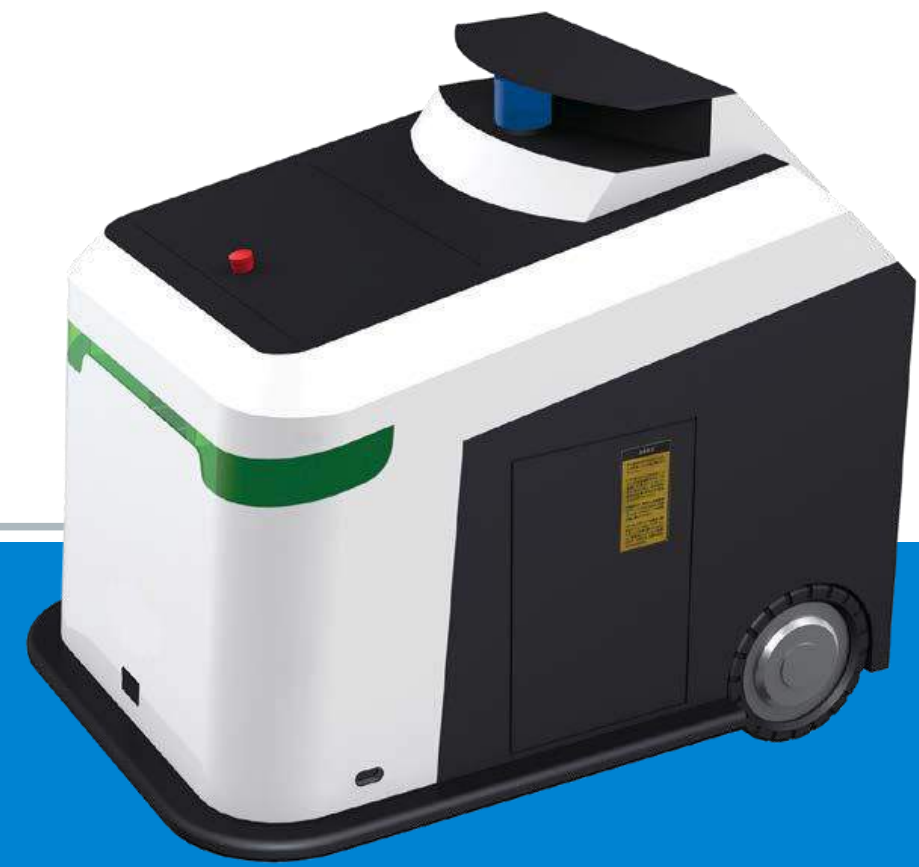


- Seamless indoor & outdoor navigation - SLAM + GNSS + RTK.
- Dustproof, waterproof, explosion-proof - built for rough terrain and harsh environments.
- Supports SLAM, grid, and reflector navigation.
- Optional contactless charging.
- Fully customizable - even single units.
- Handles 30 kg to 200 tons - any workpiece, any load.



PRODUCT CATALOG

Product Catalog

A M R
(Autonomous Mobile Robot)

WUKE

Non-standard Customized Robot Expert

WUKE

WUKE ROBOTICS
<https://wukerobotics.com>
+86 13617384456
admin@wukerobotics.com
sales@wukerobotics.com



Produced by
TKING
Address:
Shunlian International Machinery Expo
Center, Foshan City, Guangdong
Province

ABOUT US

Wuke Robotics is a robot distributor with extensive experience in overseas trade, boasting both a professional foreign trade support team and a professional after-sales support team.

Product research and development is conducted in Foshan and Shenzhen, China and Japan, while manufacturing takes place in Foshan and Shenzhen, China.

Our goal is to implement our customers' requests into robots, and we propose the best automation solutions in a simple, efficient, and effective manner. We aim to provide non-standard customization services worldwide and solve all robot-related challenges.

CORPORATE HISTORY



CONTENTS

ABOUT US

INTRODUCTION — 2

VISION

PRODUCT

Product — 4

Autonomous Mobile Robot (AMR)

Autonomous Tractor

- Indoor, omnidirectional movement
- Outdoor, rough terrain, rain-resistant
- Freezing Environment
- Construction site
- Snowy road
- Explosion-proof environment

Software System — 27

Roboshop

RDS



VISION

About Wuke Robotics

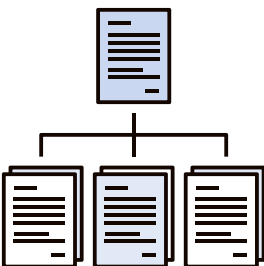
Creative imagination drives true technological progress.

We achieve automation with the optimal tools and simple solutions.



Clients First

We propose the optimal solution from the user's perspective.



Simple is the best

Eliminating unnecessary site renovations, expansions, and other inconveniences for our customers.



Running costs

Minimize maintenance and upkeep costs after implementation.

Many automation solutions tend to propose what appears to be the optimal choice from within their own product lineup. However, what truly matters is selecting the right tools based on the specific automation needs of the user. We define this as the "Best Way of Automation."

Wuke Robotics is committed to pushing the limits of automation to meet customer needs. With our proprietary AI algorithm auto-generation platform, additional object identification and discrimination functions required on-site can be added to the robot as needed. Beyond mere conveyance, by integrating thinking and action, we enable more advanced levels of task execution.



PRODUCT

On safe and stable conveyance

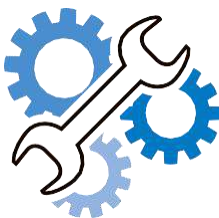
High-precision environmental perception for narrow paths and dynamic environments

Equipped with FMCW-LiDAR (3-step modulation).



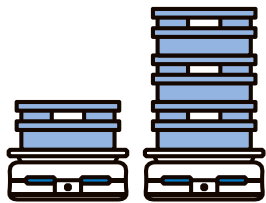
Safety

High-precision LiDAR and various sensors enable collision avoidance and stable driving.



Customizability

Flexible design customizable to application and load type.



Handles diverse loads

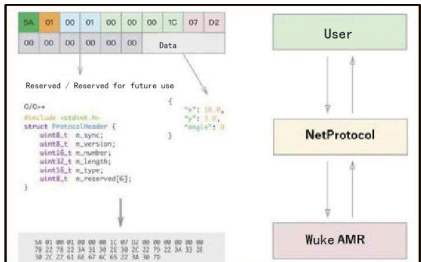
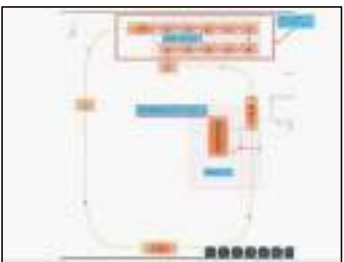
Capable of handling a wide range of workpieces, from lightweight to heavy.

High-precision environmental perception – FMCW-LiDAR (3-step modulation) enables accurate navigation in narrow paths and changing environments for safe, stable conveyance.

Hybrid navigation – Combines SLAM, grid, and reflector-based methods for flexible route configuration.

Easy system integration – Full control via PLC or API.

Versatile load handling – Supports applications from lightweight to heavy-duty workpieces.



WKseries

WK Series – Advanced autonomous conveyance robot adaptable to diverse workpieces and environments.

Key attributes – Safety, scalability, environmental adaptability.

Chassis – High-rigidity monocoque design for durability and stability.

Lineup – Entry-level (easy adoption), standard (broad applications), omnidirectional (flexible maneuverability).

Model selection – Distinct features per model enable optimization by application and environment.

Entry-level model



WK600

Standard model



WK800

Wireless automatic charging model

Omnidirectional model



WK2000Z



WK300



WK400



WK1200



WK400Z



WK800Z



WK1200Z

BASIC SPECS



Seamless driving

Capable of seamless operation both indoors and outdoors.



High-precision navigation

High-precision navigation and safety control



Wide Range of Options

Customize to suit your needs with a wide range of options.



Support for Special Environments

Compatible with special environments such as waterproof, explosion-proof, and cold-climate conditions.



Payload Capacity

300kg~



Minimum turning radius

400mm~



Driving speed

1.0m~1.5m/s



Docking accuracy

±5mm

WK Series Product List

		Entry-level model		Standard model			Omnidirectional model			
										
Product		WK300	WK600	WK400	WK800	WK1200	WK400Z	WK800Z	WK1200Z	WK2000Z
Navigation	Laser SLAM (Indoor)	●	●	●	●	●	●	●	●	●
	Wi-Fi	●	●	●	●	●	●	●	●	●
	5G	○	○	○	○	○	○	○	○	○
Basic Spec	Payload capacity (kg)	300	600	400	800	1200	400	800	1200	2000
	Minimum turning radius (mm)	420	556	400	490	540	500	550	600	800
	Dead weight (kg)	150	120	120	250	300	200	300	400	550
	Width × Depth × Height (mm)	670×830×260	685×982×258	550×800×300	680×980×260	800×1080×300	650×950×325	800×980×350	950×1200×370	1100×1400×370
	Minimum aisle width (mm)	>870 (recommended)	>735 (recommended)	>850 (recommended)	>980 (recommended)	>1100 (recommended)	>950 (recommended)	>840 (recommended)	>1250 (recommended)	1400以上 (recommended)
	Operating temperature range	0°C~50°C	—	0°C~50°C	0°C~50°C	0°C~50°C	—	—	—	—
Motion Performance	Mobility Capacity	Forward/ reverse and turning	Forward/ reverse and turning	Forward/ reverse and turning	Forward/ reverse and turning	Forward/reverse and turning	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
	Navigation accuracy (mm)	±10		±10	±10	±10	—	—	—	—
	Positioning accuracy (mm)	±5	±10	±5	±5	±5	±10	±10	±10	±5
	Lifting stroke (mm)	60 (±0.5 mm accuracy)	60 (±0.5 mm accuracy)	60 (±0.5 mm accuracy)	60 (±0.5 mm accuracy)	60 (±0.5 mm accuracy)	—	—	—	—
	Docking accuracy (mm)	—	±5	—	—	—	±5	—	—	±5
	Maximum running speed (m/s)	1m/s	1.5m/s	1.5m/s	1.5m/s	1.5m/s	Max1.5m/s	Max1.5m/s	Max1.5m/s	Max1.5m/s
	Step climbing ability (mm)	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
	Threshold width (mm)	≤30	≤30	≤30	≤30	≤30	≤30	≤30	≤30	≤30
	Gradeability (%)	5	3	5	5	5	5	5	5	5
Safety Performance	Manual operation (Push & terminal)	●	●	●	●	●	●	●	●	●
	Route deviation protection, Position deviation protection	●	●	●	●	●	●	●	●	●
	Component failure protection	●	●	●	●	●	●	●	●	●
	360° obstacle avoidance (Dual LiDAR)	●	●	●	●	●	●	●	●	●
	Proximity sensors (8 units)	—	●	—	—	—	—	●	●	●
	Solid-state LiDAR (4 units)	—	—	—	—	—	●	—	—	—
	Front obstacle detection sensor	●	—	●	●	●	—	—	—	—
	Emergency stop button	●	●	●	●	●	●	●	●	●
	Audible and visual indicators	●	●	●	●	●	●	●	●	●
	HMI (Human-Machine Interface)	—	No	—	—	—	●	●	●	●
Battery	Battery type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
	Standard battery capacity (Ah)	51.2V/21Ah	48V/30Ah	48V/30Ah	48V/40Ah	48V/50Ah	48V/40Ah	48V/80Ah	48V/60Ah	48V/60Ah
	Charging method	Manual / Automatic (contact type)	Manual / Automatic	Manual / Automatic (contact type)	Manual / Automatic (contact type)	Manual / Automatic (contact type)	Manual / Automatic	Manual / Automatic	Manual / Automatic	Manual / Automatic
	Charging time / Average operating time	1.5h/8h	1h/6h	1h/8h	1h/8h	1h/8h	1h/8h	1h/8h	1h/8h	1h/8h
	Charger power supply	Three-phase AC 200V × 20A	Single-phase AC 200V × 20A	Three-phase AC 200V × 20A	Three-phase AC 200V × 20A	Three-phase AC 200V × 20A	Single-phase AC 200V × 20A	Single-phase AC 200V × 20A	Single-phase AC 200V × 20A	Single-phase AC 200V × 20A
Wheels	Wheel material	Urethane resin	Urethane resin	Urethane resin	Urethane resin	Urethane resin	Urethane resin	Urethane resin	Urethane resin	Urethane resin
	Drive wheel	2 units	2 units	2 units	2 units	2 units	Mecanum wheels × 4 units	4 units	4 units	4 units
	Auxiliary wheel	4 units	4 units	4 units	4 units	4 units	—	—	—	—

SMT

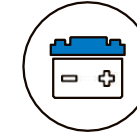
Omnidirectional mobile robot

BASIC SPECS



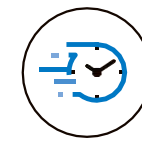
Payload Capacity

100kg~



Charging Method

Automatic Charging



Running Speed

0.1m~1.5m/s



Docking Accuracy

±5mm



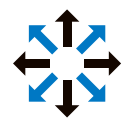
SMT-100



SMT-4000

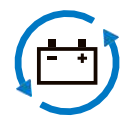
Product Specification

Product Name		SMT-100	SMT-4000
Navigation	Laser SLAM (Indoor)	•	•
Transmission	5G Wi-Fi	•	•
Basic Specifications	Platform load capacity (kg)	300	5000
	Center turning diameter (mm)	1000	2800
	Docking height (mm)	750	700
	Dead weight (kg)	200	3000
	Width × Depth × Height (mm)	1000×1000×850	2000×1800×850
Payload Capacity	Compatible container size	600×400	1200×1700
	Maximum Payload (Total)	100kg	4000kg
	Transfer quantity per cycle	1~2	1~2
Driving dynamics	Navigation Axes	ALL	ALL
Running performance	Positioning Accuracy	±10mm	±10mm
	Docking Accuracy	±5mm	±5mm
	Running Speed (km/h)	0.1m~1.5m/s (adjustable)	0.1m~1.5m/s (adjustable)
	Step Climbing Ability (mm)	10mm	10mm
	Threshold Clearance (mm)	30mm	30mm
	Gradeability (%) - Laden / Unladen	3/3	3/3
	Aisle Width Requirement (mm)	>1400 (recommended)	>2400 (recommended)
	Manual Operation (via Terminal / Remote)	•	•
	Position Deviation Protection	•	•
	Transmission loss protection / Transmission failure protection	•	•
Safety functions	360° Obstacle Avoidance Sensor (Dual LiDAR)	•	•
	Bumper (Omnidirectional / Full Perimeter)	•	•
	Emergency Stop Button × 2	•	•
	Audible Alarm & Visual Indicators	•	•
	HMI (Human-Machine Interface)	•	•
	Charging Method①	Manually	Manually
Battery Performance	Charging Method②	Automatic (contact type)	Automatic (non-contact type)
	Charging Method③ (Optional)	Automatic (non-contact type)	Automatic (contact type)
	Battery type	Lithium-ion	Lithium-ion
	Standard battery capacity (Ah)	48V/80Ah	48V/200Ah
	Automatic charging time / Operating time (h)	1/8	4/8
Wheels	Wheel material	Urethane resin	Urethane resin
	Drive wheel type	Multi-steering wheel	Omnidirectional steering wheel



Omnidirectional movement

Capable of moving freely in all directions—forward, backward, left, right, and diagonally.



Battery Replacement

Simply swap the battery. You can replace it in under 30 seconds.



System-based operational coordination

Docking with equipment is possible using only the system, without relying on laser sensors.



バッテリー交換



Height Adjustment (SMT-100)

Height adjustment is available via customization.



4-Wheel Drive (SMT-4000)

Equipped with four urethane drive wheels.

WK-ACR01

Case handling robot

Navigation – SLAM & grid-based hybrid navigation for easy configuration of autonomous travel and pick-and-place.

Maneuverability – Omnidirectional steering allows free adjustment of angle and distance in narrow spaces, shelving, and equipment access.

Gripping capability – Supports multiple types and sizes of workpieces.

Monitoring & management – 3D camera support enables motion monitoring, ID management, and entry/exit recording.

Integration – No existing equipment modification required; easy integration with host systems and peripheral devices.



Automatic identification & position Calibration

Automatically calibrates lateral deviation up to 8 cm and angular deviation up to 3° for accurate container grasping.



Automatic Gripper adjustment

Automatically calibrates width and length according to container dimensions for accurate pick-and-place.



QR code management

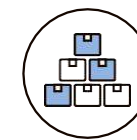
System-only docking capability; no laser sensors required.

BASIC SPECS



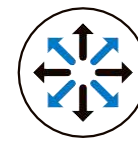
Payload capacity

500kg ~



Maximum reloading quantity (per cycle)

6



Mobility

Omnidirectional



Docking accuracy

±5mm

Product Specification

Product Name		WK-ACR01
Navigation	Laser SLAM + grid-based + reflector	•
Transmission	5G Wi-Fi	•
Basic Specification	Payload capacity (kg)	500
	Center turning diameter (mm)	1950
	Picking height (mm)	400~4000
	Dead Weight(kg)	450
	Width × Depth × Height (mm)	985×1685×4450
Payload Capability	Maximum mobility size	400×600×300
	Maximum payload capacity	50kg
	Max. qty/cycle: 1 pcs	6
	Number of stackable levels	3~6
Mobility Capability	Driving direction	Omnidirectional
Mobility function	Positioning accuracy	±10mm
	Docking accuracy	±5mm
	Lifting speed	0.6m/s (adjustable)
	Driving speed	1.6 m/s max (adjustable)
	Step climbing ability (mm)	10mm
	Gap clearance (mm)	30mm
	Gradeability (%)	5
	Aisle width (mm)	1140 mm min. (recommended)

Product Name		WK-ACR01
Safety Performance	Manual operation	•
	Route/position deviation protection	•
	Component/communication failure protection	•
	360° obstacle avoidance sensor (Dual LiDAR)	•
	Bumper (omnidirectional)	•
	Emergency stop button	•
	Audible and visual indicators	•
Battery performance	HMI	•
	Charging method ①	Manual
	Charging method ②	Automatic (contact)
	Charging method ③ (optional)	Automatic (non-contact)
	Battery type	Lithium-ion
	Standard battery capacity (Ah)	48V/46Ah
Wheels	Automatic charging time / Operating time (h)	1/8
	Wheel material	Urethane resin
Vision capability	Wheels	2 drive (omni) + 2 casters
	Barcode / QR code auto-ID	•
	3D cargo identification	•
	Cargo detection by gripper	•

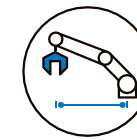
COBOT

BASIC SPECS



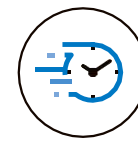
Payload capacity

400kg~



Minimum turning radius

500mm~



Running Speed

MAX1.5m/s



Docking accuracy

±5mm

Wuke COBOT

2-wheel differential drive, high-floor type

Lightweight collaborative robot

Payload capacity: up to 50 kg

Movement: forward/reverse and turning

Other available models

Omnidirectional high-floor type

Low-floor type

Key features

Safe human-robot collaboration

Compatible with almost all collaborative robots

Applications

Workpiece loading/unloading to/from processing equipment

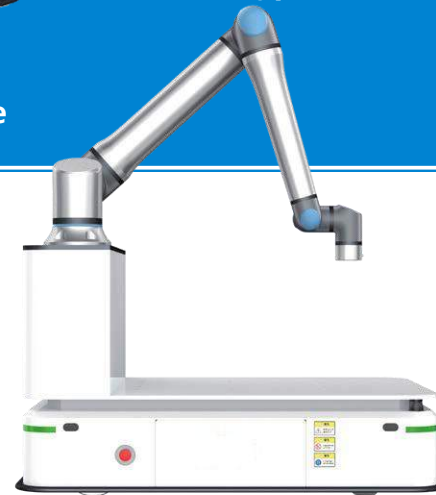
conveyance and transfer of precision instruments



2-wheel differential drive high-floor type

Omnidirectional high-floor type

Omnidirectional low-floor type



Safety

Safe human-robot collaboration with flexible task adaptability.



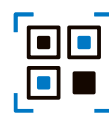
Short-term autonomous operation

Point-to-point setup in about 10 minutes.



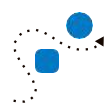
Open control

Full control via PLC or API.



Hybrid navigation

Combines SLAM, QR code, and reflector navigation for flexible travel.



Easy deployment

Easy deployment – Registration, mapping, and route creation using only IP settings.

Product Specification

Product Name		2-wheel differential drive high-floor type	Omnidirectional high-floor type	Omnidirectional low-floor type
Navigation	Laser SLAM (Indoor)	•	•	•
	Wi-Fi5	•	•	•
Transmission	5G	○	○	○
Basic Specification	Platform payload capacity (kg)	400 ~	400 ~	400 ~
	Minimum turning radius (mm)	500 ~	500 ~	500 ~
	Dead weight (kg)	250 ~	250 ~	250 ~
	Width × Depth × Height (mm)	600 × 950 × 850 mm (excluding collaborative robot)	600 × 950 × 850 mm (excluding collaborative robot)	600 × 950 × 850 mm (excluding collaborative robot)
	Platform height (mm)	850	850	300
Motion Performance	Mobility function	Forward/reverse and turning	Omnidirectional	Omnidirectional
	Positioning accuracy	±10	±10	±10
	Docking accuracy	±5	±5	±5
	Running Speed (m/s)	Max1.5m/s	Max1.5m/s	Max1.5m/s
	Step climbing ability (mm)	≤10	≤10	≤10
	Gap clearance (mm)	≤30	≤30	≤30
	Gradeability (%)	5	5	3
Safety Performance	Manual (via terminal)	•	•	•
	Route and position deviation protection	•	•	•
	Component and transmission failure protection	•	•	•
	360° obstacle avoidance (Dual LiDAR)	•	•	•
	~8 units sensors	•	•	•
	Emergency stop button	•	•	•
	Audible and visual indicators	•	•	•
	HMI	•	•	•
Battery Performance	Charging Method	Manual / Automatic	Manual / Automatic	Manual / Automatic
	Battery type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
	Standard battery capacity (Ah)	48V/100Ah	48V/100Ah	48V/100Ah
	Charge / Avg. runtime (h)	1.5h/8h	1.5h/8h	1.5h/8h
	Outlet Standards	Single-phase AC 200V × 20A	Single-phase AC 200V × 20A	Single-phase AC 200V × 20A
Wheels	Wheels Material	Urethane resin	Urethane resin	Urethane resin
	Drive wheel	4 units	4 units	4 units

COBOT

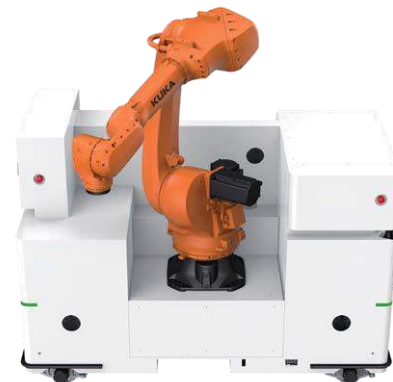
For Industrial use

Drive system: 4-wheel drive with omnidirectional movement

Payload stacking: Multiple pallets or workpieces

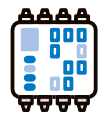
Transfer compatibility: Production lines and non-roller-conveyor systems

Applications: Storage, conveyance, low-shelf access, and more



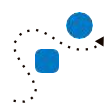
Safety

Safe human-robot collaboration / Flexible task adaptability



Open control

Full control via PLC or API.



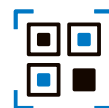
Easy deployment

Registration, mapping, and routing using only IP settings.



Short-term autonomous operation

Point-to-point routing setup in about 10 minutes.



Grid navigation setting

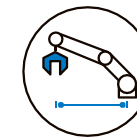
Simple configuration with QR code markers.

BASIC SPECS



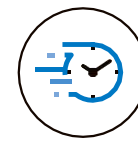
Payload capacity

1 ton



Minimum turning radius

1000mm



Running Speed

Max1.5m/s



Docking accuracy

±5mm

Product Specification

Product Name		産業ロボットタイプ
Navigation	Laser SLAM (Indoor)	●
Transmission	Wi-Fi	●
	5G	○
Basic Specification	Platform payload capacity (kg)	1000
	Minimum turning radius (mm)	1000
	Dead weight (kg)	350
	Width × Depth × Height (mm)	1800x1000x850
	Platform height (mm)	—
	Minimum aisle width (mm)	1040 mm min. (recommended)
Motion Performance	Mobility function	Omnidirectional
	Positioning accuracy	±10
	Docking accuracy	±5
	Running Speed (m/s)	Max1.5m/s
	Step climbing ability (mm)	≤10
	Gap clearance (mm)	≤30
	Gradeability (%)	5
Safety Performance	Manual (via terminal)	●
	Route and position deviation protection	●
	Component and transmission failure protection	●
	360° obstacle avoidance (Dual LiDAR)	●
	~8 units sensors	●
	Emergency stop button	●
	Audible and visual indicators	●
	HMI	●
Battery Performance	Charging Method	Manual / Automatic
	Battery type	Lithium Iron Phosphate
	Standard battery capacity (Ah)	48V/80Ah
	Charge / Avg. runtime (h)	1h/8h
	Outlet Standards	Single-phase AC 200V × 20A
Wheels	Wheels Material	Urethane resin
	Drive wheel	4 units

H-Wuke Series

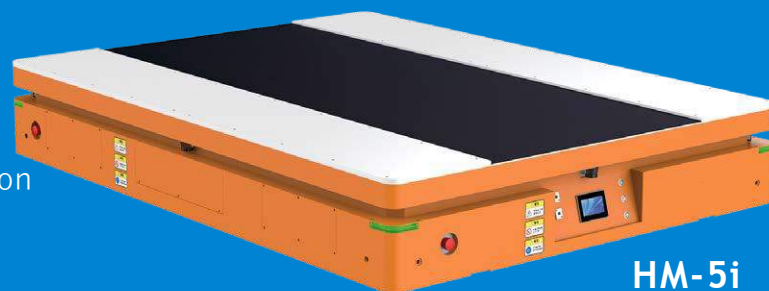
Indoor use

Navigation LiDAR: Dual FMCW, diagonally mounted

Stopping accuracy: ±10 mm

Harsh environment capability: Metal fabrication, welding, painting – stable operation in dusty and fume-filled conditions

Technology: Proprietary algorithm + FMCW-LiDAR



HM-5i



HW-10i



HW-25i



HW-50i



Safety LiDAR

Configurable to customer requirements. ISO 3691-4 compliant options available.



Platform

Standard specifications + optional lifting device.



Automatic Charging

Selectable between contact and non-contact types.



Customization

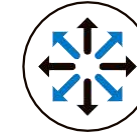
Explosion-proof options available.

BASIC SPECS



Payload capacity

5–200 tons



Mobility function

全方向



Navigation

Laser SLAM



Docking accuracy

±5mm

Product Specification

Product Name		HW-5i	HW-10i	HW-25i	HW-50i
Navigation	Laser SLAM (Indoor)	•	•	•	•
	Wi-Fi	•	•	•	•
	5G	○		○	○
Basic Specification	Payload capacity (kg)	5000	10000	25000	50000
	Minimum turning radius (mm)	1400	2600	3500	5500
	Dead weight (kg)	2000	3000	5500	8000
	Dimensions (L × W × H) (mm)	2350×1750×390	4800×2000×380	6500×2500×300	9500×3000×360
	Minimum aisle width (mm)	2050 Min. (recommended)	2300Min. (recommended)	2800Min. (recommended)	3500Min. (recommended)
Motion Performance	Mobility function	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
	Positioning accuracy	±10	±10	±10	±10
	Docking accuracy	±5	±5	±5	±5
	Running Speed (m/s)	Max1.5m/s	Max1.5m/s	Max1.5m/s	Max1.5m/s
	Step climbing ability (mm)	≤20	≤20	≤20	≤20
	Gap clearance (mm)	≤40	≤40	≤40	≤40
	Gradeability (°)	5	5	5	5
Safety Performance	Manual (via terminal)	•	•	•	•
	Route and position deviation protection	•	•	•	•
	Component and transmission failure protection	•	•	•	•
	360° obstacle avoidance (Dual LiDAR)	•	•	•	•
	Obstacle avoidance LiDAR × 4 units	•	•	•	•
	Emergency stop button	•	•	•	•
	Audible and visual indicators	•	•	•	•
	HMI	•	•	•	•
Battery Type	Charging Method	Manual / Automatic	Manual / Automatic	Manual / Automatic	Manual / Automatic
	Battery type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
	Standard battery capacity (Ah)	48V/180Ah	48V/200Ah	48V/380Ah	48V/480Ah
	Charge / Avg. runtime (h)	2h/8h	2h/8h	2h/6h	2h/6h
Wheels	Wheels Material	Urethane resin	Urethane resin	Urethane resin	Urethane resin
	Drive wheel	4 units	4 units	4 units	4 units

WWK Series

BASIC SPECS

Series: WMK Series AGV/AMR

Tires: Rubber tire specification for outdoor operation

Payload: 4–10 tons (3 models available)

Navigation: SLAM, GNSS+RTK, or hybrid

Autonomous travel: Outdoor, even without buildings

Standard feature: Automatic attachment/detachment mechanism

Application: Efficient conveyance indoors and outdoors



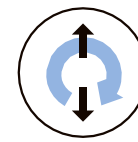
Payload capacity

4 to 10 tons



Minimum turning radius

1800mm~



Mobility function

Forward, reverse, and turning



Docking accuracy

±5mm

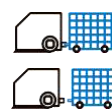
Product Specification

Product Name		WWK40A	WWK60A	WWK100A
Navigation	Laser SLAM (Indoor/Outdoor)	•	•	•
	GNSS+RTK (Outdoor)	○	○	○
Transmission	Wi-Fi	•	•	•
	5G (5th Gen Transmission)	○	○	○
Basic Specification	Payload capacity (kg)	4000	6000	10000
	Traction force (N)	800	1200	2000
	Wheelbase (mm)	1040	1040	1276
	Minimum turning radius (mm)	1800	2150	2390
	Coupling mechanism height (mm)	405	405	120
	Dead weight (kg)	920	1000	2000
	Width × Length × Height (mm)	930×1350×1200	990×1550×1400	1225×1800×1700
	Mobility function	Forward, reverse, and turning	Forward, reverse, and turning	Forward, reverse, and turning
Motion Performance	SLAM Positioning accuracy	±10 (indoor/outdoor)	±10 (indoor/outdoor)	±10 (indoor/outdoor)
	GNSS+RTK Positioning accuracy	±50 (outdoor)	±50 (outdoor)	±50 (outdoor)
	Travel speed (km/h): Laden / Unladen	8/14	7/17	6/16
	Gradeability (°) – Laden / Unladen	8/10	8/10	8/10
	Manual / Automatic	•	•	•
Safety Performance	Route and position deviation protection	•	•	•
	Component and transmission failure protection	•	•	•
	360° low-height obstacle detection	•	•	•
	3D obstacle avoidance camera (front only)	•	•	•
	Bumper	•	•	•
	Emergency stop button	•	•	•
	Audio and visual alarms	•	•	•
	HMI	•	•	•
Battery Performance	Charging Method	Manual / Automatic	Manual / Automatic	Manual / Automatic
	Battery type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
	Standard battery capacity	48V/200Ah	48V/280Ah	48V/400Ah
	Charge / Avg. runtime (h)	2h/6h	2h/6h	2h/6h
Wheels	Wheels Material	Rubber tire	Rubber tire	Pneumatic tire
Others	Water resistance (IP23)	○	○	○
	Rear camera sensor	○	○	○
	RFID reader	○	○	○



Towing capacity

Available in three models (4–10 tons) with outdoor conveyance capability.



Automatic docking/undocking mechanism

Standard feature enables efficient indoor/outdoor operation.



Navigation

Compatible with SLAM, GNSS+RTK, or hybrid systems.



Outdoor compatible

Rubber tires allow autonomous operation in rainy conditions and unstructured outdoor environments.

WKK series

BASIC SPECS



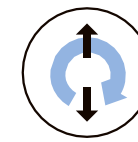
Payload capacity

1-3 tons



Minimum turning radius

600mm~



Mobility function

Forward, reverse, and turning



Docking accuracy

±5mm



Series: WKK Series – Indoor/outdoor AGV/AMR

Tires: Rubber tires for enhanced friction

Towing jig: Mounted on Wuke AMR

Models: 3 models (1–3 tons)

Standard feature: Automatic attachment/detachment mechanism

Sensors: FMCW LiDAR, 3D camera, short-range laser, ultrasonic sensors

Obstacle detection: 360° coverage

Capability: Linked towing of multiple workpieces

Product Specification

Product Name		WKK1000	WKK2000	WKK3000
Navigation	Laser SLAM	•	•	•
Transmission	5G Wi-Fi	•	•	•
Basic Specification	Payload capacity (kg)	1000	2000	3000
	Minimum turning radius (mm)	600	750	850
	Coupling mechanism height (mm)	205/505	205/605	205/705
	Dead weight (kg)	250	480	700
	Width × Length × Height (mm)	850×1080×780	850×1250×800	900×1400×850
Motion Performance	Mobility function	Forward, reverse, and turning	Forward, reverse, and turning	Forward, reverse, and turning
	SLAM Positioning accuracy	±10	±10	±10
	Docking accuracy (mm)	±5	±5	±5
	Running speed (km/h) – Laden / Unladen	8/14	7/17	6/16
	Gradeability (°): Laden / Unladen – 5° / 8°	7	8	10
Safety Performance	Manual / Automatic	•	•	•
	Route and position deviation protection	•	•	•
	Component and transmission failure protection	•	•	•
	Bumper	•	•	•
	Emergency stop button	•	•	•
	Audio and visual alarms	•	•	•
	HMI	•	•	•
Battery Performance	Charging Method	Manual / Automatic	Manual / Automatic	Manual / Automatic
	Battery type	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
	Standard battery capacity	48V/40Ah	48V/60Ah	48V/100Ah
	Charge / Avg. runtime (h)	1h/8h	1.5h/8h	2h/8h
Wheels	Wheels Material	Rubber tire	Rubber tire	Rubber tire
Others	Waterproof rating (IP23)	○	○	○
	Rear camera sensor	○	○	○
	RFID reader	○	○	○



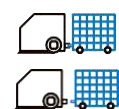
Towing capacity

Supports towing of 1–3 ton workpieces and linked towing of multiple units.



360° obstacle detection

Safe operation enabled by FMCW LiDAR, 3D camera, short-range laser, and ultrasonic sensors.



Automatic docking/undocking mechanism

Wuke AMR features a towing jig with easy attachment/detachment.



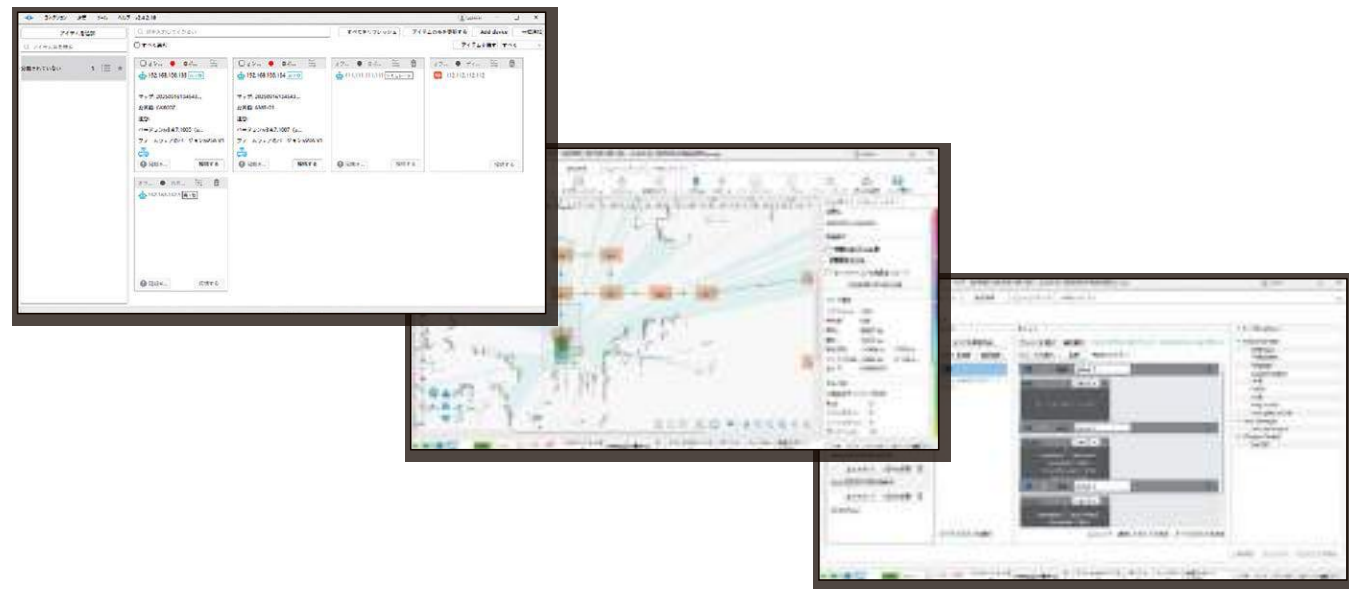
Indoor/outdoor compatible

Rubber tires enhance friction for operation in dusty, particulate, and fume-filled environments.

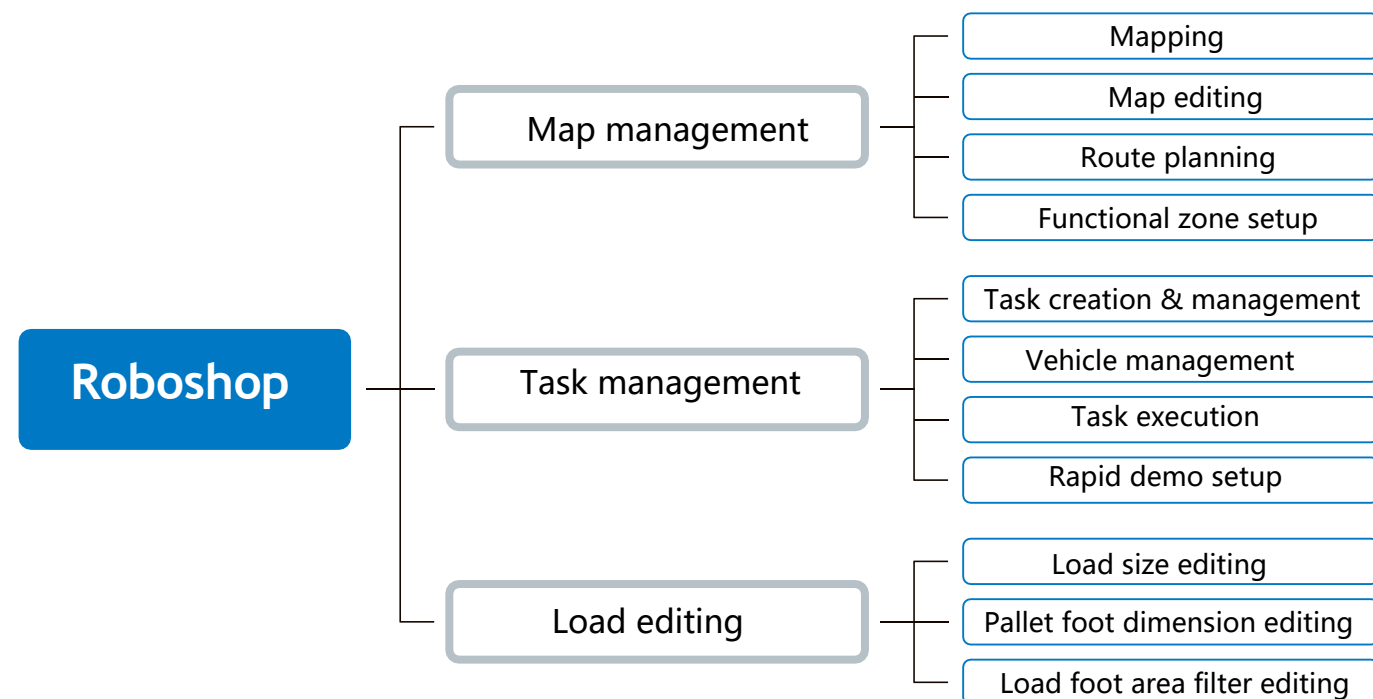
Standalone control software system

Roboshop

Roboshop is an integrated standalone AGV/AMR management software that combines mapping, map editing, route creation, functional area creation, single-unit task execution, and load/object editing into a single platform.



Control system

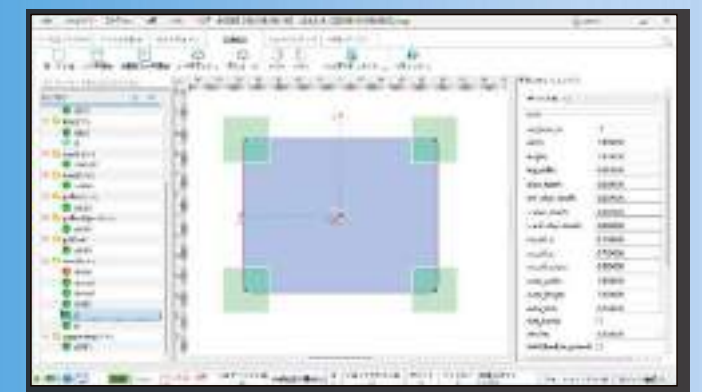


System features

- 1 Supports parameter configuration
- 2 Compatible with all our AGVs/AMRs
- 3 Interfaces with elevators and automatic doors for automated access and traversal.
- 4 Pallet identification at goods receipt and RFID-based product information reading.
- 5 Multiple language support
- 6 Real-time log display and robot monitoring (status, position, task status) via interface.
- 7 Supports simultaneous control of 100+ robots
- 8 Supports PLC communication and API docking
- 9 Supports integration of outdoor GPS maps and indoor SLAM maps into one unified map.

Load editing

Simple adjustment of rack size, foot size, and filter width for the transported object.

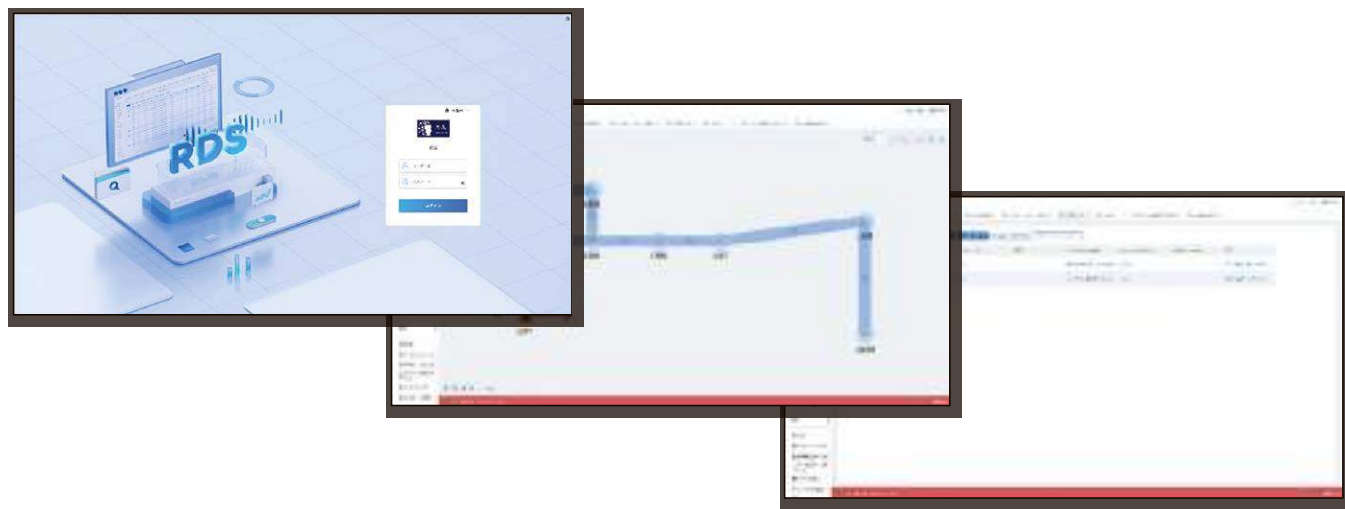


Host software system

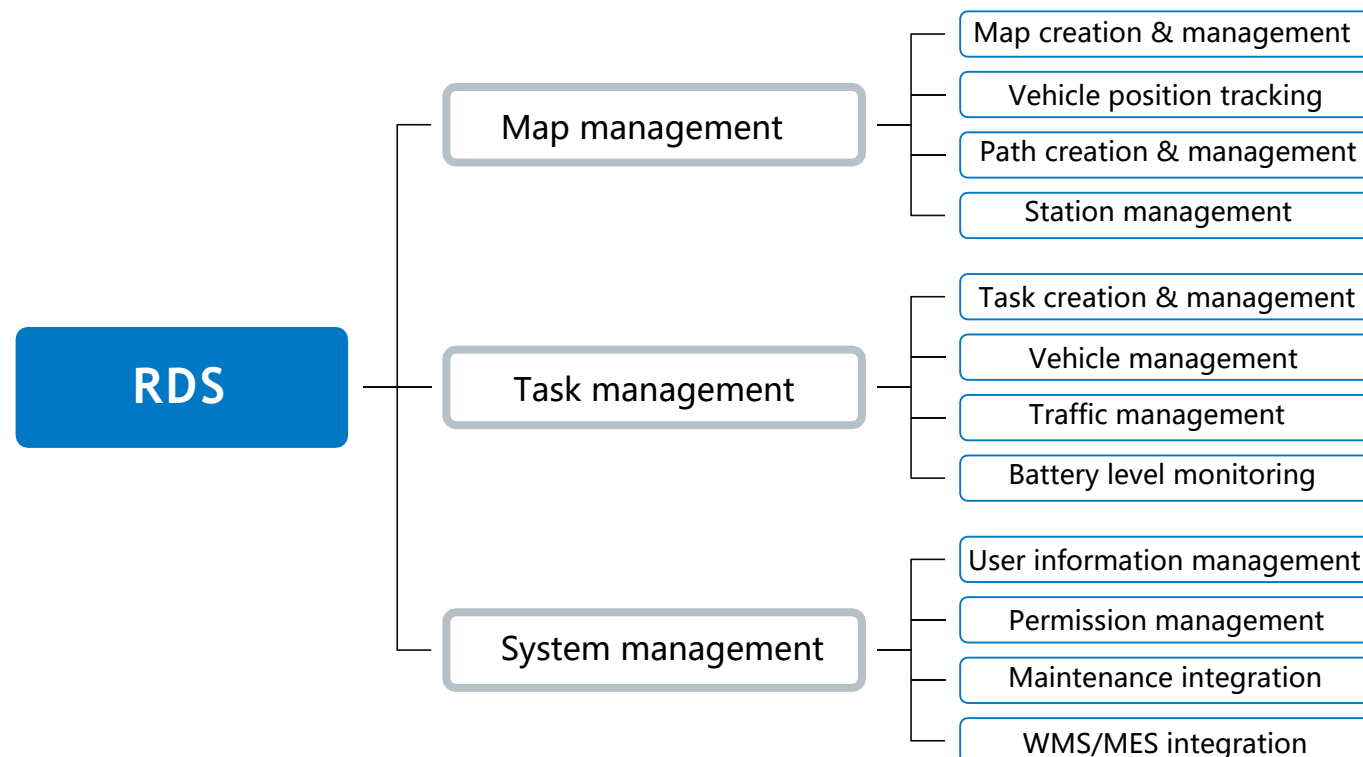
RDS

RDS is a system that manages maps and assigns tasks. In addition to robot control, it includes external integration capabilities, enabling communication with equipment via PLC and integration with external systems via API.

With RDS, users can quickly perform configuration of transport robots, map recording/editing, task editing, and task setup/execution. It also supports robot deployment and scheduling.



Control system



System features

- 1 Supports parameter configuration 
- 2 Compatible with all our AGVs/AMRs 
- 3 Communicates with elevators and automatic doors for autonomous boarding, alighting, and passage. 
- 4 Pallet identification at goods receipt and product information reading via RFID reader. 
- 5 Multi-language support 
- 6 Real-time log display and monitoring of robot status, position, and task status via the interface 
- 7 Supports simultaneous control of 100+ robots 
- 8 Supports PLC communication and API docking 
- 9 Outdoor GPS maps and indoor SLAM maps can be integrated into a single unified map. 

WMS (Warehouse Management System)

WMS is a system for managing warehouse operations. In addition to managing inbound/outbound and inventory, it visualizes and manages tasks such as picking and returns.

When WMS is added to RDS, WMS menus become available within RDS, enabling address management and RFID-based information management from the RDS screen.

This system allows real-time status monitoring and management, serving as a comprehensive framework to support warehouse management operations.

